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:	Q3341	**OrderDate:**	10/14/2025 12:11:00 PM
Client:	Kleinfelder	**Project:**	Webster School
Contact:	Mark Warchol	**Location:**	J12,VOA Lab

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q3341-01	**C-1**	**SOIL**			**10/13/25**			**10/14/25**
			Mercury	7471B		10/14/25	10/15/25	
			Metals ICP-Group1	6010D		10/15/25	10/15/25	
Q3341-02	**C-2**	**SOIL**			**10/13/25**			**10/14/25**
			Mercury	7471B		10/14/25	10/15/25	
			Metals ICP-Group1	6010D		10/15/25	10/15/25	
Q3341-03	**C-3**	**SOIL**			**10/13/25**			**10/14/25**
			Mercury	7471B		10/14/25	10/15/25	
			Metals ICP-Group1	6010D		10/15/25	10/15/25	

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Hit Summary Sheet
SW-846

SDG No.: Q3341 **Order ID:** Q3341

Client: Kleinfelder **Project ID:** Webster School

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID : C-1								
Q3341-01	C-1	SOIL	Aluminum	12900		0.89	5.28	mg/Kg
Q3341-01	C-1	SOIL	Arsenic	5.06		0.20	1.06	mg/Kg
Q3341-01	C-1	SOIL	Barium	29.8		0.77	5.28	mg/Kg
Q3341-01	C-1	SOIL	Beryllium	0.64		0.026	0.32	mg/Kg
Q3341-01	C-1	SOIL	Boron	7.62		0.85	5.28	mg/Kg
Q3341-01	C-1	SOIL	Cadmium	0.47		0.025	0.32	mg/Kg
Q3341-01	C-1	SOIL	Chromium	19.1		0.050	0.53	mg/Kg
Q3341-01	C-1	SOIL	Cobalt	7.11		0.11	1.58	mg/Kg
Q3341-01	C-1	SOIL	Copper	12.4		0.23	1.06	mg/Kg
Q3341-01	C-1	SOIL	Iron	18100		4.21	5.28	mg/Kg
Q3341-01	C-1	SOIL	Lead	8.56		0.14	0.63	mg/Kg
Q3341-01	C-1	SOIL	Manganese	202		0.15	1.06	mg/Kg
Q3341-01	C-1	SOIL	Mercury	0.023		0.0090	0.016	mg/Kg
Q3341-01	C-1	SOIL	Nickel	13.4		0.14	2.11	mg/Kg
Q3341-01	C-1	SOIL	Selenium	0.61	J	0.28	1.06	mg/Kg
Q3341-01	C-1	SOIL	Vanadium	31.0		0.26	2.11	mg/Kg
Q3341-01	C-1	SOIL	Zinc	30.4		0.24	2.11	mg/Kg
Client ID : C-2								
Q3341-02	C-2	SOIL	Aluminum	13300		0.86	5.12	mg/Kg
Q3341-02	C-2	SOIL	Arsenic	6.09		0.20	1.02	mg/Kg
Q3341-02	C-2	SOIL	Barium	30.4		0.75	5.12	mg/Kg
Q3341-02	C-2	SOIL	Beryllium	0.77		0.026	0.31	mg/Kg
Q3341-02	C-2	SOIL	Boron	7.90		0.82	5.12	mg/Kg
Q3341-02	C-2	SOIL	Cadmium	0.43		0.025	0.31	mg/Kg
Q3341-02	C-2	SOIL	Chromium	19.7		0.048	0.51	mg/Kg
Q3341-02	C-2	SOIL	Cobalt	7.77		0.10	1.54	mg/Kg
Q3341-02	C-2	SOIL	Copper	14.1		0.23	1.02	mg/Kg
Q3341-02	C-2	SOIL	Iron	23000		4.09	5.12	mg/Kg
Q3341-02	C-2	SOIL	Lead	9.09		0.13	0.62	mg/Kg
Q3341-02	C-2	SOIL	Manganese	161		0.14	1.02	mg/Kg
Q3341-02	C-2	SOIL	Mercury	0.019		0.0080	0.015	mg/Kg
Q3341-02	C-2	SOIL	Nickel	13.5		0.13	2.05	mg/Kg
Q3341-02	C-2	SOIL	Selenium	0.67	J	0.27	1.02	mg/Kg
Q3341-02	C-2	SOIL	Vanadium	37.5		0.26	2.05	mg/Kg
Q3341-02	C-2	SOIL	Zinc	33.9		0.24	2.05	mg/Kg
Client ID : C-3								

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Hit Summary Sheet
SW-846

SDG No.: Q3341 **Order ID:** Q3341

Client: Kleinfelder **Project ID:** Webster School

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Q3341-03	C-3	SOIL	Aluminum	10400		0.91	5.43	mg/Kg
Q3341-03	C-3	SOIL	Arsenic	5.51		0.21	1.09	mg/Kg
Q3341-03	C-3	SOIL	Barium	34.4		0.79	5.43	mg/Kg
Q3341-03	C-3	SOIL	Beryllium	0.73		0.027	0.33	mg/Kg
Q3341-03	C-3	SOIL	Boron	6.15		0.87	5.43	mg/Kg
Q3341-03	C-3	SOIL	Cadmium	0.71		0.026	0.33	mg/Kg
Q3341-03	C-3	SOIL	Chromium	16.0		0.051	0.54	mg/Kg
Q3341-03	C-3	SOIL	Cobalt	9.73		0.11	1.63	mg/Kg
Q3341-03	C-3	SOIL	Copper	12.7		0.24	1.09	mg/Kg
Q3341-03	C-3	SOIL	Iron	16800		4.33	5.43	mg/Kg
Q3341-03	C-3	SOIL	Lead	9.28		0.14	0.65	mg/Kg
Q3341-03	C-3	SOIL	Manganese	367		0.15	1.09	mg/Kg
Q3341-03	C-3	SOIL	Nickel	14.5		0.14	2.17	mg/Kg
Q3341-03	C-3	SOIL	Selenium	0.38	J	0.28	1.09	mg/Kg
Q3341-03	C-3	SOIL	Vanadium	28.6		0.27	2.17	mg/Kg
Q3341-03	C-3	SOIL	Zinc	29.8		0.25	2.17	mg/Kg

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SAMPLE DATA

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Report of Analysis

Client:	Kleinfelder	Date Collected:	10/13/25
Project:	Webster School	Date Received:	10/14/25
Client Sample ID:	C-1	SDG No.:	Q3341
Lab Sample ID:	Q3341-01	Matrix:	SOIL
Level (low/med):	low	% Solid:	78.9

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	12900		1	0.89	5.28	mg/Kg	10/15/25 10:45	10/15/25 19:15	6010D	SW3050
7440-36-0	Antimony	0.23	UN	1	0.23	2.64	mg/Kg	10/15/25 10:45	10/15/25 19:15	6010D	SW3050
7440-38-2	Arsenic	5.06		1	0.20	1.06	mg/Kg	10/15/25 10:45	10/15/25 19:15	6010D	SW3050
7440-39-3	Barium	29.8	N	1	0.77	5.28	mg/Kg	10/15/25 10:45	10/15/25 19:15	6010D	SW3050
7440-41-7	Beryllium	0.64		1	0.026	0.32	mg/Kg	10/15/25 10:45	10/15/25 19:15	6010D	SW3050
7440-42-8	Boron	7.62		1	0.85	5.28	mg/Kg	10/15/25 10:45	10/15/25 19:15	6010D	SW3050
7440-43-9	Cadmium	0.47		1	0.025	0.32	mg/Kg	10/15/25 10:45	10/15/25 19:15	6010D	SW3050
7440-47-3	Chromium	19.1		1	0.050	0.53	mg/Kg	10/15/25 10:45	10/15/25 19:15	6010D	SW3050
7440-48-4	Cobalt	7.11		1	0.11	1.58	mg/Kg	10/15/25 10:45	10/15/25 19:15	6010D	SW3050
7440-50-8	Copper	12.4		1	0.23	1.06	mg/Kg	10/15/25 10:45	10/15/25 19:15	6010D	SW3050
7439-89-6	Iron	18100		1	4.21	5.28	mg/Kg	10/15/25 10:45	10/15/25 19:15	6010D	SW3050
7439-92-1	Lead	8.56		1	0.14	0.63	mg/Kg	10/15/25 10:45	10/15/25 19:15	6010D	SW3050
7439-96-5	Manganese	202		1	0.15	1.06	mg/Kg	10/15/25 10:45	10/15/25 19:15	6010D	SW3050
7439-97-6	Mercury	0.023		1	0.0090	0.016	mg/Kg	10/14/25 16:20	10/15/25 09:35	7471B	
7439-98-7	Molybdenum	0.86	U	1	0.86	10.6	mg/Kg	10/15/25 10:45	10/15/25 19:15	6010D	SW3050
7440-02-0	Nickel	13.4		1	0.14	2.11	mg/Kg	10/15/25 10:45	10/15/25 19:15	6010D	SW3050
7782-49-2	Selenium	0.61	J	1	0.28	1.06	mg/Kg	10/15/25 10:45	10/15/25 19:15	6010D	SW3050
7440-22-4	Silver	0.13	UN	1	0.13	0.53	mg/Kg	10/15/25 10:45	10/15/25 19:15	6010D	SW3050
7440-28-0	Thallium	0.24	U	1	0.24	2.11	mg/Kg	10/15/25 10:45	10/15/25 19:15	6010D	SW3050
7440-62-2	Vanadium	31.0		1	0.26	2.11	mg/Kg	10/15/25 10:45	10/15/25 19:15	6010D	SW3050
7440-66-6	Zinc	30.4	N	1	0.24	2.11	mg/Kg	10/15/25 10:45	10/15/25 19:15	6010D	SW3050

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:	Kleinfelder	Date Collected:	10/13/25
Project:	Webster School	Date Received:	10/14/25
Client Sample ID:	C-2	SDG No.:	Q3341
Lab Sample ID:	Q3341-02	Matrix:	SOIL
Level (low/med):	low	% Solid:	82.7

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	13300		1	0.86	5.12	mg/Kg	10/15/25 10:45	10/15/25 19:19	6010D	SW3050
7440-36-0	Antimony	0.23	UN	1	0.23	2.56	mg/Kg	10/15/25 10:45	10/15/25 19:19	6010D	SW3050
7440-38-2	Arsenic	6.09		1	0.20	1.02	mg/Kg	10/15/25 10:45	10/15/25 19:19	6010D	SW3050
7440-39-3	Barium	30.4	N	1	0.75	5.12	mg/Kg	10/15/25 10:45	10/15/25 19:19	6010D	SW3050
7440-41-7	Beryllium	0.77		1	0.026	0.31	mg/Kg	10/15/25 10:45	10/15/25 19:19	6010D	SW3050
7440-42-8	Boron	7.90		1	0.82	5.12	mg/Kg	10/15/25 10:45	10/15/25 19:19	6010D	SW3050
7440-43-9	Cadmium	0.43		1	0.025	0.31	mg/Kg	10/15/25 10:45	10/15/25 19:19	6010D	SW3050
7440-47-3	Chromium	19.7		1	0.048	0.51	mg/Kg	10/15/25 10:45	10/15/25 19:19	6010D	SW3050
7440-48-4	Cobalt	7.77		1	0.10	1.54	mg/Kg	10/15/25 10:45	10/15/25 19:19	6010D	SW3050
7440-50-8	Copper	14.1		1	0.23	1.02	mg/Kg	10/15/25 10:45	10/15/25 19:19	6010D	SW3050
7439-89-6	Iron	23000		1	4.09	5.12	mg/Kg	10/15/25 10:45	10/15/25 19:19	6010D	SW3050
7439-92-1	Lead	9.09		1	0.13	0.62	mg/Kg	10/15/25 10:45	10/15/25 19:19	6010D	SW3050
7439-96-5	Manganese	161		1	0.14	1.02	mg/Kg	10/15/25 10:45	10/15/25 19:19	6010D	SW3050
7439-97-6	Mercury	0.019		1	0.0080	0.015	mg/Kg	10/14/25 16:20	10/15/25 09:37	7471B	
7439-98-7	Molybdenum	0.83	U	1	0.83	10.3	mg/Kg	10/15/25 10:45	10/15/25 19:19	6010D	SW3050
7440-02-0	Nickel	13.5		1	0.13	2.05	mg/Kg	10/15/25 10:45	10/15/25 19:19	6010D	SW3050
7782-49-2	Selenium	0.67	J	1	0.27	1.02	mg/Kg	10/15/25 10:45	10/15/25 19:19	6010D	SW3050
7440-22-4	Silver	0.12	UN	1	0.12	0.51	mg/Kg	10/15/25 10:45	10/15/25 19:19	6010D	SW3050
7440-28-0	Thallium	0.24	U	1	0.24	2.05	mg/Kg	10/15/25 10:45	10/15/25 19:19	6010D	SW3050
7440-62-2	Vanadium	37.5		1	0.26	2.05	mg/Kg	10/15/25 10:45	10/15/25 19:19	6010D	SW3050
7440-66-6	Zinc	33.9	N	1	0.24	2.05	mg/Kg	10/15/25 10:45	10/15/25 19:19	6010D	SW3050

U = Not Detected
LOQ = Limit of Quantitation
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LOD = Limit of Detection
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Report of Analysis

Client:	Kleinfelder	Date Collected:	10/13/25
Project:	Webster School	Date Received:	10/14/25
Client Sample ID:	C-3	SDG No.:	Q3341
Lab Sample ID:	Q3341-03	Matrix:	SOIL
Level (low/med):	low	% Solid:	80.1

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	10400		1	0.91	5.43	mg/Kg	10/15/25 10:45	10/15/25 19:23	6010D	SW3050
7440-36-0	Antimony	0.24	UN	1	0.24	2.71	mg/Kg	10/15/25 10:45	10/15/25 19:23	6010D	SW3050
7440-38-2	Arsenic	5.51		1	0.21	1.09	mg/Kg	10/15/25 10:45	10/15/25 19:23	6010D	SW3050
7440-39-3	Barium	34.4	N	1	0.79	5.43	mg/Kg	10/15/25 10:45	10/15/25 19:23	6010D	SW3050
7440-41-7	Beryllium	0.73		1	0.027	0.33	mg/Kg	10/15/25 10:45	10/15/25 19:23	6010D	SW3050
7440-42-8	Boron	6.15		1	0.87	5.43	mg/Kg	10/15/25 10:45	10/15/25 19:23	6010D	SW3050
7440-43-9	Cadmium	0.71		1	0.026	0.33	mg/Kg	10/15/25 10:45	10/15/25 19:23	6010D	SW3050
7440-47-3	Chromium	16.0		1	0.051	0.54	mg/Kg	10/15/25 10:45	10/15/25 19:23	6010D	SW3050
7440-48-4	Cobalt	9.73		1	0.11	1.63	mg/Kg	10/15/25 10:45	10/15/25 19:23	6010D	SW3050
7440-50-8	Copper	12.7		1	0.24	1.09	mg/Kg	10/15/25 10:45	10/15/25 19:23	6010D	SW3050
7439-89-6	Iron	16800		1	4.33	5.43	mg/Kg	10/15/25 10:45	10/15/25 19:23	6010D	SW3050
7439-92-1	Lead	9.28		1	0.14	0.65	mg/Kg	10/15/25 10:45	10/15/25 19:23	6010D	SW3050
7439-96-5	Manganese	367		1	0.15	1.09	mg/Kg	10/15/25 10:45	10/15/25 19:23	6010D	SW3050
7439-97-6	Mercury	0.0090	U	1	0.0090	0.016	mg/Kg	10/14/25 16:20	10/15/25 09:40	7471B	
7439-98-7	Molybdenum	0.88	U	1	0.88	10.9	mg/Kg	10/15/25 10:45	10/15/25 19:23	6010D	SW3050
7440-02-0	Nickel	14.5		1	0.14	2.17	mg/Kg	10/15/25 10:45	10/15/25 19:23	6010D	SW3050
7782-49-2	Selenium	0.38	J	1	0.28	1.09	mg/Kg	10/15/25 10:45	10/15/25 19:23	6010D	SW3050
7440-22-4	Silver	0.13	UN	1	0.13	0.54	mg/Kg	10/15/25 10:45	10/15/25 19:23	6010D	SW3050
7440-28-0	Thallium	0.25	U	1	0.25	2.17	mg/Kg	10/15/25 10:45	10/15/25 19:23	6010D	SW3050
7440-62-2	Vanadium	28.6		1	0.27	2.17	mg/Kg	10/15/25 10:45	10/15/25 19:23	6010D	SW3050
7440-66-6	Zinc	29.8	N	1	0.25	2.17	mg/Kg	10/15/25 10:45	10/15/25 19:23	6010D	SW3050

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B = Analyte Found in Associated Method Blank
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METAL CALIBRATION DATA

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Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Kleinfelder **SDG No.:** Q3341

Contract: POWE02 **Lab Code:** ACE

Initial Calibration Source: EPA

Continuing Calibration Source: PLASMA-PURE

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
ICV71	Mercury	3.89	4.0	97	90 - 110	CV	10/15/2025	09:02	LB137528

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Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Kleinfelder **SDG No.:** Q3341

Contract: POWE02 **Lab Code:** ACE

Initial Calibration Source: EPA

Continuing Calibration Source: PLASMA-PURE

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV29	Mercury	5.17	5.0	103	90 - 110	CV	10/15/2025	09:10	LB137528
CCV30	Mercury	5.10	5.0	102	90 - 110	CV	10/15/2025	09:42	LB137528
CCV31	Mercury	5.10	5.0	102	90 - 110	CV	10/15/2025	10:18	LB137528
CCV32	Mercury	5.20	5.0	104	90 - 110	CV	10/15/2025	10:30	LB137528

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Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Kleinfelder **SDG No.:** Q3341

Contract: POWE02 **Lab Code:** ACE

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
ICV01	Aluminum	7810	8000	98	90 - 110	P	10/15/2025	14:07	LB137561
	Antimony	4050	4000	101	90 - 110	P	10/15/2025	14:07	LB137561
	Arsenic	3950	4000	99	90 - 110	P	10/15/2025	14:07	LB137561
	Barium	7910	8000	99	90 - 110	P	10/15/2025	14:07	LB137561
	Beryllium	202	200	101	90 - 110	P	10/15/2025	14:07	LB137561
	Boron	3900	4000	97	90 - 110	P	10/15/2025	14:07	LB137561
	Cadmium	1930	2000	96	90 - 110	P	10/15/2025	14:07	LB137561
	Chromium	795	800	99	90 - 110	P	10/15/2025	14:07	LB137561
	Cobalt	1940	2000	97	90 - 110	P	10/15/2025	14:07	LB137561
	Copper	992	1000	99	90 - 110	P	10/15/2025	14:07	LB137561
	Iron	3930	4000	98	90 - 110	P	10/15/2025	14:07	LB137561
	Lead	3800	4000	95	90 - 110	P	10/15/2025	14:07	LB137561
	Manganese	1980	2000	99	90 - 110	P	10/15/2025	14:07	LB137561
	Molybdenum	3870	4000	97	90 - 110	P	10/15/2025	14:07	LB137561
	Nickel	1950	2000	97	90 - 110	P	10/15/2025	14:07	LB137561
	Selenium	4020	4000	101	90 - 110	P	10/15/2025	14:07	LB137561
	Silver	953	1000	95	90 - 110	P	10/15/2025	14:07	LB137561
	Thallium	4160	4000	104	90 - 110	P	10/15/2025	14:07	LB137561
	Vanadium	1960	2000	98	90 - 110	P	10/15/2025	14:07	LB137561
	Zinc	1970	2000	98	90 - 110	P	10/15/2025	14:07	LB137561

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Kleinfelder **SDG No.:** Q3341

Contract: POWE02 **Lab Code:** ACE

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
LLICV01	Aluminum	99.5	100	100	80 - 120	P	10/15/2025	14:19	LB137561
	Antimony	50.9	50.0	102	80 - 120	P	10/15/2025	14:19	LB137561
	Arsenic	21.8	20.0	109	80 - 120	P	10/15/2025	14:19	LB137561
	Barium	92.9	100	93	80 - 120	P	10/15/2025	14:19	LB137561
	Beryllium	6.22	6.0	104	80 - 120	P	10/15/2025	14:19	LB137561
	Boron	92.6	100	93	80 - 120	P	10/15/2025	14:19	LB137561
	Cadmium	5.77	6.0	96	80 - 120	P	10/15/2025	14:19	LB137561
	Chromium	10.4	10.0	104	80 - 120	P	10/15/2025	14:19	LB137561
	Cobalt	29.3	30.0	98	80 - 120	P	10/15/2025	14:19	LB137561
	Copper	22.1	20.0	110	80 - 120	P	10/15/2025	14:19	LB137561
	Iron	100	100	100	80 - 120	P	10/15/2025	14:19	LB137561
	Lead	12.2	12.0	102	80 - 120	P	10/15/2025	14:19	LB137561
	Manganese	19.4	20.0	97	80 - 120	P	10/15/2025	14:19	LB137561
	Molybdenum	203	200	101	80 - 120	P	10/15/2025	14:19	LB137561
	Nickel	39.7	40.0	99	80 - 120	P	10/15/2025	14:19	LB137561
	Selenium	19.1	20.0	95	80 - 120	P	10/15/2025	14:19	LB137561
	Silver	10.7	10.0	107	80 - 120	P	10/15/2025	14:19	LB137561
	Thallium	43.9	40.0	110	80 - 120	P	10/15/2025	14:19	LB137561
	Vanadium	35.4	40.0	89	80 - 120	P	10/15/2025	14:19	LB137561
	Zinc	42.9	40.0	107	80 - 120	P	10/15/2025	14:19	LB137561

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Kleinfelder **SDG No.:** Q3341

Contract: POWE02 **Lab Code:** ACE

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV01	Aluminum	9870	10000	99	90 - 110	P	10/15/2025	15:09	LB137561
	Antimony	5030	5000	101	90 - 110	P	10/15/2025	15:09	LB137561
	Arsenic	5000	5000	100	90 - 110	P	10/15/2025	15:09	LB137561
	Barium	9940	10000	99	90 - 110	P	10/15/2025	15:09	LB137561
	Beryllium	250	250	100	90 - 110	P	10/15/2025	15:09	LB137561
	Boron	4990	5000	100	90 - 110	P	10/15/2025	15:09	LB137561
	Cadmium	2480	2500	99	90 - 110	P	10/15/2025	15:09	LB137561
	Chromium	1010	1000	101	90 - 110	P	10/15/2025	15:09	LB137561
	Cobalt	2480	2500	99	90 - 110	P	10/15/2025	15:09	LB137561
	Copper	1260	1250	100	90 - 110	P	10/15/2025	15:09	LB137561
	Iron	5020	5000	100	90 - 110	P	10/15/2025	15:09	LB137561
	Lead	4950	5000	99	90 - 110	P	10/15/2025	15:09	LB137561
	Manganese	2490	2500	100	90 - 110	P	10/15/2025	15:09	LB137561
	Molybdenum	5000	5000	100	90 - 110	P	10/15/2025	15:09	LB137561
	Nickel	2490	2500	100	90 - 110	P	10/15/2025	15:09	LB137561
	Selenium	5050	5000	101	90 - 110	P	10/15/2025	15:09	LB137561
	Silver	1250	1250	100	90 - 110	P	10/15/2025	15:09	LB137561
	Thallium	4830	5000	97	90 - 110	P	10/15/2025	15:09	LB137561
	Vanadium	2480	2500	99	90 - 110	P	10/15/2025	15:09	LB137561
	Zinc	2540	2500	102	90 - 110	P	10/15/2025	15:09	LB137561
CCV02	Aluminum	9260	10000	93	90 - 110	P	10/15/2025	16:28	LB137561
	Antimony	4870	5000	98	90 - 110	P	10/15/2025	16:28	LB137561
	Arsenic	4810	5000	96	90 - 110	P	10/15/2025	16:28	LB137561
	Barium	9240	10000	92	90 - 110	P	10/15/2025	16:28	LB137561
	Beryllium	231	250	92	90 - 110	P	10/15/2025	16:28	LB137561
	Boron	4660	5000	93	90 - 110	P	10/15/2025	16:28	LB137561
	Cadmium	2340	2500	93	90 - 110	P	10/15/2025	16:28	LB137561
	Chromium	948	1000	95	90 - 110	P	10/15/2025	16:28	LB137561
	Cobalt	2340	2500	94	90 - 110	P	10/15/2025	16:28	LB137561
	Copper	1190	1250	95	90 - 110	P	10/15/2025	16:28	LB137561
	Iron	4820	5000	96	90 - 110	P	10/15/2025	16:28	LB137561
	Lead	4690	5000	94	90 - 110	P	10/15/2025	16:28	LB137561
	Manganese	2320	2500	93	90 - 110	P	10/15/2025	16:28	LB137561
	Molybdenum	4780	5000	96	90 - 110	P	10/15/2025	16:28	LB137561

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Kleinfelder **SDG No.:** Q3341

Contract: POWE02 **Lab Code:** ACE

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV02	Nickel	2350	2500	94	90 - 110	P	10/15/2025	16:28	LB137561
	Selenium	4910	5000	98	90 - 110	P	10/15/2025	16:28	LB137561
	Silver	1200	1250	96	90 - 110	P	10/15/2025	16:28	LB137561
	Thallium	4780	5000	96	90 - 110	P	10/15/2025	16:28	LB137561
	Vanadium	2340	2500	94	90 - 110	P	10/15/2025	16:28	LB137561
	Zinc	2360	2500	94	90 - 110	P	10/15/2025	16:28	LB137561
CCV03	Aluminum	9730	10000	97	90 - 110	P	10/15/2025	17:21	LB137561
	Antimony	4990	5000	100	90 - 110	P	10/15/2025	17:21	LB137561
	Arsenic	4930	5000	98	90 - 110	P	10/15/2025	17:21	LB137561
	Barium	9320	10000	93	90 - 110	P	10/15/2025	17:21	LB137561
	Beryllium	252	250	101	90 - 110	P	10/15/2025	17:21	LB137561
	Boron	5010	5000	100	90 - 110	P	10/15/2025	17:21	LB137561
	Cadmium	2410	2500	96	90 - 110	P	10/15/2025	17:21	LB137561
	Chromium	988	1000	99	90 - 110	P	10/15/2025	17:21	LB137561
	Cobalt	2410	2500	96	90 - 110	P	10/15/2025	17:21	LB137561
	Copper	1220	1250	98	90 - 110	P	10/15/2025	17:21	LB137561
	Iron	4690	5000	94	90 - 110	P	10/15/2025	17:21	LB137561
	Lead	4840	5000	97	90 - 110	P	10/15/2025	17:21	LB137561
	Manganese	2390	2500	96	90 - 110	P	10/15/2025	17:21	LB137561
	Molybdenum	4880	5000	98	90 - 110	P	10/15/2025	17:21	LB137561
	Nickel	2420	2500	97	90 - 110	P	10/15/2025	17:21	LB137561
	Selenium	5060	5000	101	90 - 110	P	10/15/2025	17:21	LB137561
	Silver	1230	1250	98	90 - 110	P	10/15/2025	17:21	LB137561
	Thallium	5480	5000	110	90 - 110	P	10/15/2025	17:21	LB137561
	Vanadium	2420	2500	97	90 - 110	P	10/15/2025	17:21	LB137561
	Zinc	2440	2500	98	90 - 110	P	10/15/2025	17:21	LB137561
CCV04	Aluminum	9550	10000	96	90 - 110	P	10/15/2025	18:10	LB137561
	Antimony	4800	5000	96	90 - 110	P	10/15/2025	18:10	LB137561
	Arsenic	4750	5000	95	90 - 110	P	10/15/2025	18:10	LB137561
	Barium	9160	10000	92	90 - 110	P	10/15/2025	18:10	LB137561
	Beryllium	244	250	97	90 - 110	P	10/15/2025	18:10	LB137561
	Boron	4820	5000	96	90 - 110	P	10/15/2025	18:10	LB137561
	Cadmium	2360	2500	94	90 - 110	P	10/15/2025	18:10	LB137561
	Chromium	976	1000	98	90 - 110	P	10/15/2025	18:10	LB137561

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Kleinfelder **SDG No.:** Q3341

Contract: POWE02 **Lab Code:** ACE

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV04	Cobalt	2350	2500	94	90 - 110	P	10/15/2025	18:10	LB137561
	Copper	1200	1250	96	90 - 110	P	10/15/2025	18:10	LB137561
	Iron	4680	5000	94	90 - 110	P	10/15/2025	18:10	LB137561
	Lead	4710	5000	94	90 - 110	P	10/15/2025	18:10	LB137561
	Manganese	2340	2500	94	90 - 110	P	10/15/2025	18:10	LB137561
	Molybdenum	4790	5000	96	90 - 110	P	10/15/2025	18:10	LB137561
	Nickel	2360	2500	94	90 - 110	P	10/15/2025	18:10	LB137561
	Selenium	4800	5000	96	90 - 110	P	10/15/2025	18:10	LB137561
	Silver	1200	1250	96	90 - 110	P	10/15/2025	18:10	LB137561
	Thallium	4980	5000	100	90 - 110	P	10/15/2025	18:10	LB137561
	Vanadium	2390	2500	96	90 - 110	P	10/15/2025	18:10	LB137561
	Zinc	2410	2500	96	90 - 110	P	10/15/2025	18:10	LB137561
CCV05	Aluminum	9890	10000	99	90 - 110	P	10/15/2025	18:58	LB137561
	Antimony	4970	5000	100	90 - 110	P	10/15/2025	18:58	LB137561
	Arsenic	4940	5000	99	90 - 110	P	10/15/2025	18:58	LB137561
	Barium	9690	10000	97	90 - 110	P	10/15/2025	18:58	LB137561
	Beryllium	253	250	101	90 - 110	P	10/15/2025	18:58	LB137561
	Boron	5020	5000	100	90 - 110	P	10/15/2025	18:58	LB137561
	Cadmium	2480	2500	99	90 - 110	P	10/15/2025	18:58	LB137561
	Chromium	1020	1000	102	90 - 110	P	10/15/2025	18:58	LB137561
	Cobalt	2470	2500	99	90 - 110	P	10/15/2025	18:58	LB137561
	Copper	1250	1250	100	90 - 110	P	10/15/2025	18:58	LB137561
	Iron	4940	5000	99	90 - 110	P	10/15/2025	18:58	LB137561
	Lead	4940	5000	99	90 - 110	P	10/15/2025	18:58	LB137561
	Manganese	2460	2500	98	90 - 110	P	10/15/2025	18:58	LB137561
	Molybdenum	5050	5000	101	90 - 110	P	10/15/2025	18:58	LB137561
	Nickel	2480	2500	99	90 - 110	P	10/15/2025	18:58	LB137561
	Selenium	4960	5000	99	90 - 110	P	10/15/2025	18:58	LB137561
	Silver	1260	1250	101	90 - 110	P	10/15/2025	18:58	LB137561
	Thallium	5220	5000	104	90 - 110	P	10/15/2025	18:58	LB137561
	Vanadium	2490	2500	100	90 - 110	P	10/15/2025	18:58	LB137561
	Zinc	2510	2500	100	90 - 110	P	10/15/2025	18:58	LB137561
CCV06	Aluminum	10300	10000	103	90 - 110	P	10/15/2025	19:44	LB137561
	Antimony	4970	5000	99	90 - 110	P	10/15/2025	19:44	LB137561

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Kleinfelder **SDG No.:** Q3341

Contract: POWE02 **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
CCV06	Arsenic	4940	5000	99	90 - 110	P	10/15/2025	19:44	LB137561
	Barium	10100	10000	101	90 - 110	P	10/15/2025	19:44	LB137561
	Beryllium	264	250	106	90 - 110	P	10/15/2025	19:44	LB137561
	Boron	5200	5000	104	90 - 110	P	10/15/2025	19:44	LB137561
	Cadmium	2460	2500	98	90 - 110	P	10/15/2025	19:44	LB137561
	Chromium	1020	1000	102	90 - 110	P	10/15/2025	19:44	LB137561
	Cobalt	2450	2500	98	90 - 110	P	10/15/2025	19:44	LB137561
	Copper	1240	1250	99	90 - 110	P	10/15/2025	19:44	LB137561
	Iron	4880	5000	98	90 - 110	P	10/15/2025	19:44	LB137561
	Lead	4900	5000	98	90 - 110	P	10/15/2025	19:44	LB137561
	Manganese	2570	2500	103	90 - 110	P	10/15/2025	19:44	LB137561
	Molybdenum	4990	5000	100	90 - 110	P	10/15/2025	19:44	LB137561
	Nickel	2450	2500	98	90 - 110	P	10/15/2025	19:44	LB137561
	Selenium	4970	5000	100	90 - 110	P	10/15/2025	19:44	LB137561
	Silver	1240	1250	100	90 - 110	P	10/15/2025	19:44	LB137561
	Thallium	5010	5000	100	90 - 110	P	10/15/2025	19:44	LB137561
	Vanadium	2600	2500	104	90 - 110	P	10/15/2025	19:44	LB137561
	Zinc	2500	2500	100	90 - 110	P	10/15/2025	19:44	LB137561

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Kleinfelder **SDG No.:** Q3341

Contract: POWE02 **Lab Code:** ACE

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
ICV01	Aluminum	7720	8000	96	90 - 110	P	10/16/2025	11:34	LB137573
	Antimony	3970	4000	99	90 - 110	P	10/16/2025	11:34	LB137573
	Arsenic	3920	4000	98	90 - 110	P	10/16/2025	11:34	LB137573
	Barium	7880	8000	98	90 - 110	P	10/16/2025	11:34	LB137573
	Beryllium	197	200	99	90 - 110	P	10/16/2025	11:34	LB137573
	Boron	3890	4000	97	90 - 110	P	10/16/2025	11:34	LB137573
	Cadmium	1930	2000	97	90 - 110	P	10/16/2025	11:34	LB137573
	Chromium	797	800	100	90 - 110	P	10/16/2025	11:34	LB137573
	Cobalt	1960	2000	98	90 - 110	P	10/16/2025	11:34	LB137573
	Copper	1010	1000	101	90 - 110	P	10/16/2025	11:34	LB137573
	Iron	4030	4000	101	90 - 110	P	10/16/2025	11:34	LB137573
	Lead	3800	4000	95	90 - 110	P	10/16/2025	11:34	LB137573
	Manganese	1970	2000	99	90 - 110	P	10/16/2025	11:34	LB137573
	Molybdenum	3990	4000	100	90 - 110	P	10/16/2025	11:34	LB137573
	Nickel	1960	2000	98	90 - 110	P	10/16/2025	11:34	LB137573
	Selenium	3910	4000	98	90 - 110	P	10/16/2025	11:34	LB137573
	Silver	965	1000	96	90 - 110	P	10/16/2025	11:34	LB137573
	Thallium	4120	4000	103	90 - 110	P	10/16/2025	11:34	LB137573
	Vanadium	1950	2000	97	90 - 110	P	10/16/2025	11:34	LB137573
	Zinc	1990	2000	99	90 - 110	P	10/16/2025	11:34	LB137573

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Kleinfelder **SDG No.:** Q3341

Contract: POWE02 **Lab Code:** ACE

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
LLICV01	Aluminum	109	100	109	80 - 120	P	10/16/2025	11:58	LB137573
	Antimony	52.5	50.0	105	80 - 120	P	10/16/2025	11:58	LB137573
	Arsenic	20.2	20.0	101	80 - 120	P	10/16/2025	11:58	LB137573
	Barium	92.6	100	93	80 - 120	P	10/16/2025	11:58	LB137573
	Beryllium	6.40	6.0	107	80 - 120	P	10/16/2025	11:58	LB137573
	Boron	108	100	108	80 - 120	P	10/16/2025	11:58	LB137573
	Cadmium	5.80	6.0	97	80 - 120	P	10/16/2025	11:58	LB137573
	Chromium	10.3	10.0	103	80 - 120	P	10/16/2025	11:58	LB137573
	Cobalt	29.6	30.0	99	80 - 120	P	10/16/2025	11:58	LB137573
	Copper	22.2	20.0	111	80 - 120	P	10/16/2025	11:58	LB137573
	Iron	100	100	100	80 - 120	P	10/16/2025	11:58	LB137573
	Lead	10.6	12.0	89	80 - 120	P	10/16/2025	11:58	LB137573
	Manganese	21.2	20.0	106	80 - 120	P	10/16/2025	11:58	LB137573
	Molybdenum	203	200	102	80 - 120	P	10/16/2025	11:58	LB137573
	Nickel	39.8	40.0	100	80 - 120	P	10/16/2025	11:58	LB137573
	Selenium	21.3	20.0	107	80 - 120	P	10/16/2025	11:58	LB137573
	Silver	10.4	10.0	104	80 - 120	P	10/16/2025	11:58	LB137573
	Thallium	47.7	40.0	119	80 - 120	P	10/16/2025	11:58	LB137573
	Vanadium	36.4	40.0	91	80 - 120	P	10/16/2025	11:58	LB137573
	Zinc	42.7	40.0	107	80 - 120	P	10/16/2025	11:58	LB137573

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Kleinfelder **SDG No.:** Q3341

Contract: POWE02 **Lab Code:** ACE

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV01	Aluminum	9990	10000	100	90 - 110	P	10/16/2025	12:38	LB137573
	Antimony	5030	5000	101	90 - 110	P	10/16/2025	12:38	LB137573
	Arsenic	5080	5000	102	90 - 110	P	10/16/2025	12:38	LB137573
	Barium	9890	10000	99	90 - 110	P	10/16/2025	12:38	LB137573
	Beryllium	252	250	101	90 - 110	P	10/16/2025	12:38	LB137573
	Boron	5020	5000	100	90 - 110	P	10/16/2025	12:38	LB137573
	Cadmium	2510	2500	100	90 - 110	P	10/16/2025	12:38	LB137573
	Chromium	1010	1000	101	90 - 110	P	10/16/2025	12:38	LB137573
	Cobalt	2500	2500	100	90 - 110	P	10/16/2025	12:38	LB137573
	Copper	1270	1250	102	90 - 110	P	10/16/2025	12:38	LB137573
	Iron	5000	5000	100	90 - 110	P	10/16/2025	12:38	LB137573
	Lead	4970	5000	100	90 - 110	P	10/16/2025	12:38	LB137573
	Manganese	2490	2500	100	90 - 110	P	10/16/2025	12:38	LB137573
	Molybdenum	5100	5000	102	90 - 110	P	10/16/2025	12:38	LB137573
	Nickel	2500	2500	100	90 - 110	P	10/16/2025	12:38	LB137573
	Selenium	5110	5000	102	90 - 110	P	10/16/2025	12:38	LB137573
	Silver	1250	1250	100	90 - 110	P	10/16/2025	12:38	LB137573
	Thallium	4820	5000	96	90 - 110	P	10/16/2025	12:38	LB137573
	Vanadium	2500	2500	100	90 - 110	P	10/16/2025	12:38	LB137573
	Zinc	2530	2500	101	90 - 110	P	10/16/2025	12:38	LB137573
CCV02	Aluminum	9710	10000	97	90 - 110	P	10/16/2025	13:45	LB137573
	Antimony	4930	5000	99	90 - 110	P	10/16/2025	13:45	LB137573
	Arsenic	4920	5000	98	90 - 110	P	10/16/2025	13:45	LB137573
	Barium	9950	10000	100	90 - 110	P	10/16/2025	13:45	LB137573
	Beryllium	245	250	98	90 - 110	P	10/16/2025	13:45	LB137573
	Boron	4960	5000	99	90 - 110	P	10/16/2025	13:45	LB137573
	Cadmium	2390	2500	96	90 - 110	P	10/16/2025	13:45	LB137573
	Chromium	958	1000	96	90 - 110	P	10/16/2025	13:45	LB137573
	Cobalt	2400	2500	96	90 - 110	P	10/16/2025	13:45	LB137573
	Copper	1230	1250	98	90 - 110	P	10/16/2025	13:45	LB137573
	Iron	4930	5000	99	90 - 110	P	10/16/2025	13:45	LB137573
	Lead	4800	5000	96	90 - 110	P	10/16/2025	13:45	LB137573
	Manganese	2500	2500	100	90 - 110	P	10/16/2025	13:45	LB137573
	Molybdenum	4930	5000	99	90 - 110	P	10/16/2025	13:45	LB137573

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Metals

- 2a -
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Kleinfelder **SDG No.:** Q3341

Contract: POWE02 **Lab Code:** ACE

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV02	Nickel	2400	2500	96	90 - 110	P	10/16/2025	13:45	LB137573
	Selenium	4940	5000	99	90 - 110	P	10/16/2025	13:45	LB137573
	Silver	1220	1250	98	90 - 110	P	10/16/2025	13:45	LB137573
	Thallium	4750	5000	95	90 - 110	P	10/16/2025	13:45	LB137573
	Vanadium	2440	2500	98	90 - 110	P	10/16/2025	13:45	LB137573
	Zinc	2440	2500	98	90 - 110	P	10/16/2025	13:45	LB137573
CCV03	Aluminum	9590	10000	96	90 - 110	P	10/16/2025	14:45	LB137573
	Antimony	4830	5000	97	90 - 110	P	10/16/2025	14:45	LB137573
	Arsenic	4840	5000	97	90 - 110	P	10/16/2025	14:45	LB137573
	Barium	9620	10000	96	90 - 110	P	10/16/2025	14:45	LB137573
	Beryllium	246	250	98	90 - 110	P	10/16/2025	14:45	LB137573
	Boron	4950	5000	99	90 - 110	P	10/16/2025	14:45	LB137573
	Cadmium	2360	2500	95	90 - 110	P	10/16/2025	14:45	LB137573
	Chromium	959	1000	96	90 - 110	P	10/16/2025	14:45	LB137573
	Cobalt	2370	2500	95	90 - 110	P	10/16/2025	14:45	LB137573
	Copper	1210	1250	97	90 - 110	P	10/16/2025	14:45	LB137573
	Iron	4800	5000	96	90 - 110	P	10/16/2025	14:45	LB137573
	Lead	4740	5000	95	90 - 110	P	10/16/2025	14:45	LB137573
	Manganese	2430	2500	97	90 - 110	P	10/16/2025	14:45	LB137573
	Molybdenum	4870	5000	98	90 - 110	P	10/16/2025	14:45	LB137573
	Nickel	2360	2500	95	90 - 110	P	10/16/2025	14:45	LB137573
	Selenium	4870	5000	97	90 - 110	P	10/16/2025	14:45	LB137573
	Silver	1210	1250	97	90 - 110	P	10/16/2025	14:45	LB137573
	Thallium	4880	5000	98	90 - 110	P	10/16/2025	14:45	LB137573
	Vanadium	2410	2500	97	90 - 110	P	10/16/2025	14:45	LB137573
	Zinc	2430	2500	97	90 - 110	P	10/16/2025	14:45	LB137573
CCV04	Aluminum	9610	10000	96	90 - 110	P	10/16/2025	15:38	LB137573
	Antimony	4920	5000	98	90 - 110	P	10/16/2025	15:38	LB137573
	Arsenic	4880	5000	98	90 - 110	P	10/16/2025	15:38	LB137573
	Barium	9380	10000	94	90 - 110	P	10/16/2025	15:38	LB137573
	Beryllium	243	250	97	90 - 110	P	10/16/2025	15:38	LB137573
	Boron	4830	5000	96	90 - 110	P	10/16/2025	15:38	LB137573
	Cadmium	2370	2500	95	90 - 110	P	10/16/2025	15:38	LB137573
	Chromium	975	1000	98	90 - 110	P	10/16/2025	15:38	LB137573

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Fax : 908 789 8922

Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Kleinfelder **SDG No.:** Q3341

Contract: POWE02 **Lab Code:** ACE

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV04	Cobalt	2380	2500	95	90 - 110	P	10/16/2025	15:38	LB137573
	Copper	1220	1250	97	90 - 110	P	10/16/2025	15:38	LB137573
	Iron	4840	5000	97	90 - 110	P	10/16/2025	15:38	LB137573
	Lead	4760	5000	95	90 - 110	P	10/16/2025	15:38	LB137573
	Manganese	2370	2500	95	90 - 110	P	10/16/2025	15:38	LB137573
	Molybdenum	4900	5000	98	90 - 110	P	10/16/2025	15:38	LB137573
	Nickel	2370	2500	95	90 - 110	P	10/16/2025	15:38	LB137573
	Selenium	4970	5000	99	90 - 110	P	10/16/2025	15:38	LB137573
	Silver	1220	1250	98	90 - 110	P	10/16/2025	15:38	LB137573
	Thallium	5270	5000	105	90 - 110	P	10/16/2025	15:38	LB137573
	Vanadium	2390	2500	96	90 - 110	P	10/16/2025	15:38	LB137573
	Zinc	2470	2500	99	90 - 110	P	10/16/2025	15:38	LB137573
CCV05	Aluminum	9770	10000	98	90 - 110	P	10/16/2025	16:31	LB137573
	Antimony	5180	5000	104	90 - 110	P	10/16/2025	16:31	LB137573
	Arsenic	5080	5000	102	90 - 110	P	10/16/2025	16:31	LB137573
	Barium	9930	10000	99	90 - 110	P	10/16/2025	16:31	LB137573
	Beryllium	251	250	100	90 - 110	P	10/16/2025	16:31	LB137573
	Boron	5130	5000	103	90 - 110	P	10/16/2025	16:31	LB137573
	Cadmium	2400	2500	96	90 - 110	P	10/16/2025	16:31	LB137573
	Chromium	964	1000	96	90 - 110	P	10/16/2025	16:31	LB137573
	Cobalt	2430	2500	97	90 - 110	P	10/16/2025	16:31	LB137573
	Copper	1250	1250	100	90 - 110	P	10/16/2025	16:31	LB137573
	Iron	5010	5000	100	90 - 110	P	10/16/2025	16:31	LB137573
	Lead	4880	5000	98	90 - 110	P	10/16/2025	16:31	LB137573
	Manganese	2500	2500	100	90 - 110	P	10/16/2025	16:31	LB137573
	Molybdenum	5000	5000	100	90 - 110	P	10/16/2025	16:31	LB137573
	Nickel	2430	2500	97	90 - 110	P	10/16/2025	16:31	LB137573
	Selenium	5210	5000	104	90 - 110	P	10/16/2025	16:31	LB137573
	Silver	1260	1250	101	90 - 110	P	10/16/2025	16:31	LB137573
	Thallium	5460	5000	109	90 - 110	P	10/16/2025	16:31	LB137573
	Vanadium	2450	2500	98	90 - 110	P	10/16/2025	16:31	LB137573
	Zinc	2520	2500	101	90 - 110	P	10/16/2025	16:31	LB137573
CCV06	Aluminum	9400	10000	94	90 - 110	P	10/16/2025	17:49	LB137573
	Antimony	4910	5000	98	90 - 110	P	10/16/2025	17:49	LB137573

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Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Kleinfelder **SDG No.:** Q3341

Contract: POWE02 **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
CCV06	Arsenic	4810	5000	96	90 - 110	P	10/16/2025	17:49	LB137573
	Barium	9330	10000	93	90 - 110	P	10/16/2025	17:49	LB137573
	Beryllium	241	250	96	90 - 110	P	10/16/2025	17:49	LB137573
	Boron	4890	5000	98	90 - 110	P	10/16/2025	17:49	LB137573
	Cadmium	2300	2500	92	90 - 110	P	10/16/2025	17:49	LB137573
	Chromium	932	1000	93	90 - 110	P	10/16/2025	17:49	LB137573
	Cobalt	2320	2500	93	90 - 110	P	10/16/2025	17:49	LB137573
	Copper	1190	1250	95	90 - 110	P	10/16/2025	17:49	LB137573
	Iron	4720	5000	94	90 - 110	P	10/16/2025	17:49	LB137573
	Lead	4650	5000	93	90 - 110	P	10/16/2025	17:49	LB137573
	Manganese	2360	2500	94	90 - 110	P	10/16/2025	17:49	LB137573
	Molybdenum	4790	5000	96	90 - 110	P	10/16/2025	17:49	LB137573
	Nickel	2310	2500	92	90 - 110	P	10/16/2025	17:49	LB137573
	Selenium	4920	5000	98	90 - 110	P	10/16/2025	17:49	LB137573
	Silver	1200	1250	96	90 - 110	P	10/16/2025	17:49	LB137573
	Thallium	5040	5000	101	90 - 110	P	10/16/2025	17:49	LB137573
	Vanadium	2360	2500	94	90 - 110	P	10/16/2025	17:49	LB137573
	Zinc	2400	2500	96	90 - 110	P	10/16/2025	17:49	LB137573
CCV07	Aluminum	9550	10000	96	90 - 110	P	10/16/2025	18:42	LB137573
	Antimony	4950	5000	99	90 - 110	P	10/16/2025	18:42	LB137573
	Arsenic	4900	5000	98	90 - 110	P	10/16/2025	18:42	LB137573
	Barium	9660	10000	97	90 - 110	P	10/16/2025	18:42	LB137573
	Beryllium	245	250	98	90 - 110	P	10/16/2025	18:42	LB137573
	Boron	4980	5000	100	90 - 110	P	10/16/2025	18:42	LB137573
	Cadmium	2350	2500	94	90 - 110	P	10/16/2025	18:42	LB137573
	Chromium	956	1000	96	90 - 110	P	10/16/2025	18:42	LB137573
	Cobalt	2370	2500	95	90 - 110	P	10/16/2025	18:42	LB137573
	Copper	1210	1250	97	90 - 110	P	10/16/2025	18:42	LB137573
	Iron	4850	5000	97	90 - 110	P	10/16/2025	18:42	LB137573
	Lead	4760	5000	95	90 - 110	P	10/16/2025	18:42	LB137573
	Manganese	2440	2500	98	90 - 110	P	10/16/2025	18:42	LB137573
	Molybdenum	4860	5000	97	90 - 110	P	10/16/2025	18:42	LB137573
	Nickel	2370	2500	95	90 - 110	P	10/16/2025	18:42	LB137573
	Selenium	4950	5000	99	90 - 110	P	10/16/2025	18:42	LB137573

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Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Kleinfelder **SDG No.:** Q3341

Contract: POWE02 **Lab Code:** ACE

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV07	Silver	1220	1250	98	90 - 110	P	10/16/2025	18:42	LB137573
	Thallium	5170	5000	103	90 - 110	P	10/16/2025	18:42	LB137573
	Vanadium	2410	2500	96	90 - 110	P	10/16/2025	18:42	LB137573
	Zinc	2450	2500	98	90 - 110	P	10/16/2025	18:42	LB137573
CCV08	Aluminum	9420	10000	94	90 - 110	P	10/16/2025	19:33	LB137573
	Antimony	5080	5000	102	90 - 110	P	10/16/2025	19:33	LB137573
	Arsenic	4970	5000	99	90 - 110	P	10/16/2025	19:33	LB137573
	Barium	9350	10000	94	90 - 110	P	10/16/2025	19:33	LB137573
	Beryllium	247	250	99	90 - 110	P	10/16/2025	19:33	LB137573
	Boron	4970	5000	99	90 - 110	P	10/16/2025	19:33	LB137573
	Cadmium	2370	2500	95	90 - 110	P	10/16/2025	19:33	LB137573
	Chromium	971	1000	97	90 - 110	P	10/16/2025	19:33	LB137573
	Cobalt	2380	2500	95	90 - 110	P	10/16/2025	19:33	LB137573
	Copper	1220	1250	98	90 - 110	P	10/16/2025	19:33	LB137573
	Iron	4790	5000	96	90 - 110	P	10/16/2025	19:33	LB137573
	Lead	4800	5000	96	90 - 110	P	10/16/2025	19:33	LB137573
	Manganese	2370	2500	95	90 - 110	P	10/16/2025	19:33	LB137573
	Molybdenum	4900	5000	98	90 - 110	P	10/16/2025	19:33	LB137573
	Nickel	2380	2500	95	90 - 110	P	10/16/2025	19:33	LB137573
	Selenium	5120	5000	102	90 - 110	P	10/16/2025	19:33	LB137573
	Silver	1230	1250	99	90 - 110	P	10/16/2025	19:33	LB137573
	Thallium	4990	5000	100	90 - 110	P	10/16/2025	19:33	LB137573
	Vanadium	2390	2500	96	90 - 110	P	10/16/2025	19:33	LB137573
	Zinc	2470	2500	99	90 - 110	P	10/16/2025	19:33	LB137573
CCV09	Aluminum	8990	10000	90	90 - 110	P	10/16/2025	20:07	LB137573
	Antimony	4780	5000	96	90 - 110	P	10/16/2025	20:07	LB137573
	Arsenic	4740	5000	95	90 - 110	P	10/16/2025	20:07	LB137573
	Barium	8960	10000	90	90 - 110	P	10/16/2025	20:07	LB137573
	Beryllium	234	250	94	90 - 110	P	10/16/2025	20:07	LB137573
	Boron	4710	5000	94	90 - 110	P	10/16/2025	20:07	LB137573
	Cadmium	2280	2500	91	90 - 110	P	10/16/2025	20:07	LB137573
	Chromium	939	1000	94	90 - 110	P	10/16/2025	20:07	LB137573
	Cobalt	2290	2500	92	90 - 110	P	10/16/2025	20:07	LB137573
	Copper	1170	1250	94	90 - 110	P	10/16/2025	20:07	LB137573

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Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Kleinfelder **SDG No.:** Q3341

Contract: POWE02 **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
CCV09	Iron	4660	5000	93	90 - 110	P	10/16/2025	20:07	LB137573
	Lead	4600	5000	92	90 - 110	P	10/16/2025	20:07	LB137573
	Manganese	2270	2500	91	90 - 110	P	10/16/2025	20:07	LB137573
	Molybdenum	4730	5000	95	90 - 110	P	10/16/2025	20:07	LB137573
	Nickel	2290	2500	92	90 - 110	P	10/16/2025	20:07	LB137573
	Selenium	4800	5000	96	90 - 110	P	10/16/2025	20:07	LB137573
	Silver	1190	1250	95	90 - 110	P	10/16/2025	20:07	LB137573
	Thallium	5110	5000	102	90 - 110	P	10/16/2025	20:07	LB137573
	Vanadium	2280	2500	91	90 - 110	P	10/16/2025	20:07	LB137573
	Zinc	2400	2500	96	90 - 110	P	10/16/2025	20:07	LB137573

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Metals

- 2b -
CRDL STANDARD FOR AA & ICP

Client: Kleinfelder **SDG No.:** Q3341

Contract: POWE02 **Lab Code:** ACE

Initial Calibration Source:

Continuing Calibration Source:

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CRA	Mercury	0.17	0.2	84	70 - 130	CV	10/15/2025	10:27	LB137528
CRI01	Aluminum	110	100	110	65 - 135	P	10/15/2025	14:28	LB137561
	Antimony	61.0	50.0	122	65 - 135	P	10/15/2025	14:28	LB137561
	Arsenic	25.7	20.0	129	65 - 135	P	10/15/2025	14:28	LB137561
	Barium	103	100	103	65 - 135	P	10/15/2025	14:28	LB137561
	Beryllium	6.82	6.0	114	65 - 135	P	10/15/2025	14:28	LB137561
	Boron	105	100	105	65 - 135	P	10/15/2025	14:28	LB137561
	Cadmium	6.21	6.0	103	65 - 135	P	10/15/2025	14:28	LB137561
	Chromium	11.2	10.0	112	65 - 135	P	10/15/2025	14:28	LB137561
	Cobalt	31.7	30.0	106	65 - 135	P	10/15/2025	14:28	LB137561
	Copper	24.1	20.0	121	65 - 135	P	10/15/2025	14:28	LB137561
	Iron	116	100	116	65 - 135	P	10/15/2025	14:28	LB137561
	Lead	13.1	12.0	109	65 - 135	P	10/15/2025	14:28	LB137561
	Manganese	21.9	20.0	110	65 - 135	P	10/15/2025	14:28	LB137561
	Molybdenum	216	200	108	65 - 135	P	10/15/2025	14:28	LB137561
	Nickel	42.8	40.0	107	65 - 135	P	10/15/2025	14:28	LB137561
	Selenium	22.1	20.0	110	65 - 135	P	10/15/2025	14:28	LB137561
	Silver	11.5	10.0	115	65 - 135	P	10/15/2025	14:28	LB137561
	Thallium	42.9	40.0	107	65 - 135	P	10/15/2025	14:28	LB137561
	Vanadium	42.1	40.0	105	65 - 135	P	10/15/2025	14:28	LB137561
	Zinc	48.1	40.0	120	65 - 135	P	10/15/2025	14:28	LB137561
CRI01	Aluminum	116	100	116	65 - 135	P	10/16/2025	12:09	LB137573
	Antimony	52.8	50.0	106	65 - 135	P	10/16/2025	12:09	LB137573
	Arsenic	20.4	20.0	102	65 - 135	P	10/16/2025	12:09	LB137573
	Barium	98.6	100	99	65 - 135	P	10/16/2025	12:09	LB137573
	Beryllium	6.51	6.0	109	65 - 135	P	10/16/2025	12:09	LB137573
	Boron	105	100	105	65 - 135	P	10/16/2025	12:09	LB137573
	Cadmium	5.97	6.0	100	65 - 135	P	10/16/2025	12:09	LB137573
	Chromium	10.9	10.0	109	65 - 135	P	10/16/2025	12:09	LB137573
	Cobalt	30.6	30.0	102	65 - 135	P	10/16/2025	12:09	LB137573
	Copper	23.1	20.0	116	65 - 135	P	10/16/2025	12:09	LB137573
	Iron	108	100	108	65 - 135	P	10/16/2025	12:09	LB137573
	Lead	10.5	12.0	88	65 - 135	P	10/16/2025	12:09	LB137573
	Manganese	20.3	20.0	102	65 - 135	P	10/16/2025	12:09	LB137573
	Molybdenum	210	200	105	65 - 135	P	10/16/2025	12:09	LB137573

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Metals

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CRDL STANDARD FOR AA & ICP

Client: Kleinfelder **SDG No.:** Q3341

Contract: POWE02 **Lab Code:** ACE

Initial Calibration Source:

Continuing Calibration Source:

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CRI01	Nickel	41.0	40.0	102	65 - 135	P	10/16/2025	12:09	LB137573
	Selenium	21.5	20.0	107	65 - 135	P	10/16/2025	12:09	LB137573
	Silver	10.8	10.0	108	65 - 135	P	10/16/2025	12:09	LB137573
	Thallium	46.3	40.0	116	65 - 135	P	10/16/2025	12:09	LB137573
	Vanadium	41.5	40.0	104	65 - 135	P	10/16/2025	12:09	LB137573
	Zinc	44.4	40.0	111	65 - 135	P	10/16/2025	12:09	LB137573

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Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Kleinfelder **SDG No.:** Q3341

Contract: POWE02 **Lab Code:** ACE

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB71	Mercury	0.076	+/-0.2	U	0.20	CV	10/15/2025	09:08	LB137528

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Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Kleinfelder **SDG No.:** Q3341

Contract: POWE02 **Lab Code:** ACE

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB29	Mercury	0.076	+/-0.2	U	0.20	CV	10/15/2025	09:12	LB137528
CCB30	Mercury	0.076	+/-0.2	U	0.20	CV	10/15/2025	09:44	LB137528
CCB31	Mercury	0.076	+/-0.2	U	0.20	CV	10/15/2025	10:23	LB137528
CCB32	Mercury	0.076	+/-0.2	U	0.20	CV	10/15/2025	10:32	LB137528

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Kleinfelder **SDG No.:** Q3341

Contract: POWE02 **Lab Code:** ACE

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB01	Aluminum	11.3	+/-50	U	100	P	10/15/2025	14:24	LB137561
	Antimony	6.76	+/-25	U	50.0	P	10/15/2025	14:24	LB137561
	Arsenic	5.12	+/-10	U	20.0	P	10/15/2025	14:24	LB137561
	Barium	14.6	+/-50	U	100	P	10/15/2025	14:24	LB137561
	Beryllium	0.56	+/-3	U	6.00	P	10/15/2025	14:24	LB137561
	Boron	15.7	+/-50	U	100	P	10/15/2025	14:24	LB137561
	Cadmium	0.50	+/-3	U	6.00	P	10/15/2025	14:24	LB137561
	Chromium	2.12	+/-5	U	10.0	P	10/15/2025	14:24	LB137561
	Cobalt	2.26	+/-15	U	30.0	P	10/15/2025	14:24	LB137561
	Copper	4.60	+/-10	U	20.0	P	10/15/2025	14:24	LB137561
	Iron	23.4	+/-50	U	100	P	10/15/2025	14:24	LB137561
	Lead	2.30	+/-6	U	12.0	P	10/15/2025	14:24	LB137561
	Manganese	5.94	+/-10	U	20.0	P	10/15/2025	14:24	LB137561
	Molybdenum	18.7	+/-100	U	200	P	10/15/2025	14:24	LB137561
	Nickel	3.06	+/-20	U	40.0	P	10/15/2025	14:24	LB137561
	Selenium	9.64	+/-10	U	20.0	P	10/15/2025	14:24	LB137561
	Silver	1.62	+/-5	U	10.0	P	10/15/2025	14:24	LB137561
	Thallium	4.38	+/-20	U	40.0	P	10/15/2025	14:24	LB137561
	Vanadium	6.26	+/-20	U	40.0	P	10/15/2025	14:24	LB137561
	Zinc	16.7	+/-20	U	40.0	P	10/15/2025	14:24	LB137561

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Kleinfelder **SDG No.:** Q3341

Contract: POWE02 **Lab Code:** ACE

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB01	Aluminum	11.3	+/-50	U	100	P	10/15/2025	15:13	LB137561
	Antimony	6.76	+/-25	U	50.0	P	10/15/2025	15:13	LB137561
	Arsenic	5.12	+/-10	U	20.0	P	10/15/2025	15:13	LB137561
	Barium	14.6	+/-50	U	100	P	10/15/2025	15:13	LB137561
	Beryllium	0.56	+/-3	U	6.00	P	10/15/2025	15:13	LB137561
	Boron	15.7	+/-50	U	100	P	10/15/2025	15:13	LB137561
	Cadmium	0.50	+/-3	U	6.00	P	10/15/2025	15:13	LB137561
	Chromium	2.12	+/-5	U	10.0	P	10/15/2025	15:13	LB137561
	Cobalt	2.26	+/-15	U	30.0	P	10/15/2025	15:13	LB137561
	Copper	4.60	+/-10	U	20.0	P	10/15/2025	15:13	LB137561
	Iron	23.4	+/-50	U	100	P	10/15/2025	15:13	LB137561
	Lead	2.30	+/-6	U	12.0	P	10/15/2025	15:13	LB137561
	Manganese	5.94	+/-10	U	20.0	P	10/15/2025	15:13	LB137561
	Molybdenum	18.7	+/-100	U	200	P	10/15/2025	15:13	LB137561
	Nickel	3.06	+/-20	U	40.0	P	10/15/2025	15:13	LB137561
	Selenium	9.64	+/-10	U	20.0	P	10/15/2025	15:13	LB137561
	Silver	1.62	+/-5	U	10.0	P	10/15/2025	15:13	LB137561
	Thallium	4.38	+/-20	U	40.0	P	10/15/2025	15:13	LB137561
	Vanadium	6.26	+/-20	U	40.0	P	10/15/2025	15:13	LB137561
	Zinc	16.7	+/-20	U	40.0	P	10/15/2025	15:13	LB137561
CCB02	Aluminum	11.3	+/-50	U	100	P	10/15/2025	16:32	LB137561
	Antimony	6.76	+/-25	U	50.0	P	10/15/2025	16:32	LB137561
	Arsenic	5.12	+/-10	U	20.0	P	10/15/2025	16:32	LB137561
	Barium	14.6	+/-50	U	100	P	10/15/2025	16:32	LB137561
	Beryllium	0.56	+/-3	U	6.00	P	10/15/2025	16:32	LB137561
	Boron	15.7	+/-50	U	100	P	10/15/2025	16:32	LB137561
	Cadmium	0.50	+/-3	U	6.00	P	10/15/2025	16:32	LB137561
	Chromium	2.12	+/-5	U	10.0	P	10/15/2025	16:32	LB137561
	Cobalt	2.26	+/-15	U	30.0	P	10/15/2025	16:32	LB137561
	Copper	4.60	+/-10	U	20.0	P	10/15/2025	16:32	LB137561
	Iron	23.4	+/-50	U	100	P	10/15/2025	16:32	LB137561
	Lead	2.30	+/-6	U	12.0	P	10/15/2025	16:32	LB137561
	Manganese	5.94	+/-10	U	20.0	P	10/15/2025	16:32	LB137561
	Molybdenum	18.7	+/-100	U	200	P	10/15/2025	16:32	LB137561
	Nickel	3.06	+/-20	U	40.0	P	10/15/2025	16:32	LB137561
	Selenium	9.64	+/-10	U	20.0	P	10/15/2025	16:32	LB137561
	Silver	1.62	+/-5	U	10.0	P	10/15/2025	16:32	LB137561
	Thallium	4.38	+/-20	U	40.0	P	10/15/2025	16:32	LB137561
	Vanadium	6.26	+/-20	U	40.0	P	10/15/2025	16:32	LB137561

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Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Kleinfelder **SDG No.:** Q3341

Contract: POWE02 **Lab Code:** ACE

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB02	Zinc	16.7	+/-20	U	40.0	P	10/15/2025	16:32	LB137561
CCB03	Aluminum	11.3	+/-50	U	100	P	10/15/2025	17:25	LB137561
	Antimony	6.76	+/-25	U	50.0	P	10/15/2025	17:25	LB137561
	Arsenic	5.12	+/-10	U	20.0	P	10/15/2025	17:25	LB137561
	Barium	14.6	+/-50	U	100	P	10/15/2025	17:25	LB137561
	Beryllium	0.56	+/-3	U	6.00	P	10/15/2025	17:25	LB137561
	Boron	15.7	+/-50	U	100	P	10/15/2025	17:25	LB137561
	Cadmium	0.50	+/-3	U	6.00	P	10/15/2025	17:25	LB137561
	Chromium	2.12	+/-5	U	10.0	P	10/15/2025	17:25	LB137561
	Cobalt	2.26	+/-15	U	30.0	P	10/15/2025	17:25	LB137561
	Copper	4.60	+/-10	U	20.0	P	10/15/2025	17:25	LB137561
	Iron	23.4	+/-50	U	100	P	10/15/2025	17:25	LB137561
	Lead	2.30	+/-6	U	12.0	P	10/15/2025	17:25	LB137561
	Manganese	5.94	+/-10	U	20.0	P	10/15/2025	17:25	LB137561
	Molybdenum	18.7	+/-100	U	200	P	10/15/2025	17:25	LB137561
	Nickel	3.06	+/-20	U	40.0	P	10/15/2025	17:25	LB137561
	Selenium	9.64	+/-10	U	20.0	P	10/15/2025	17:25	LB137561
	Silver	1.62	+/-5	U	10.0	P	10/15/2025	17:25	LB137561
	Thallium	4.38	+/-20	U	40.0	P	10/15/2025	17:25	LB137561
	Vanadium	6.26	+/-20	U	40.0	P	10/15/2025	17:25	LB137561
	Zinc	16.7	+/-20	U	40.0	P	10/15/2025	17:25	LB137561
CCB04	Aluminum	11.3	+/-50	U	100	P	10/15/2025	18:14	LB137561
	Antimony	6.76	+/-25	U	50.0	P	10/15/2025	18:14	LB137561
	Arsenic	5.12	+/-10	U	20.0	P	10/15/2025	18:14	LB137561
	Barium	14.6	+/-50	U	100	P	10/15/2025	18:14	LB137561
	Beryllium	0.56	+/-3	U	6.00	P	10/15/2025	18:14	LB137561
	Boron	15.7	+/-50	U	100	P	10/15/2025	18:14	LB137561
	Cadmium	0.50	+/-3	U	6.00	P	10/15/2025	18:14	LB137561
	Chromium	2.12	+/-5	U	10.0	P	10/15/2025	18:14	LB137561
	Cobalt	2.26	+/-15	U	30.0	P	10/15/2025	18:14	LB137561
	Copper	4.60	+/-10	U	20.0	P	10/15/2025	18:14	LB137561
	Iron	23.4	+/-50	U	100	P	10/15/2025	18:14	LB137561
	Lead	2.30	+/-6	U	12.0	P	10/15/2025	18:14	LB137561
	Manganese	5.94	+/-10	U	20.0	P	10/15/2025	18:14	LB137561
	Molybdenum	18.7	+/-100	U	200	P	10/15/2025	18:14	LB137561
	Nickel	3.06	+/-20	U	40.0	P	10/15/2025	18:14	LB137561
	Selenium	9.64	+/-10	U	20.0	P	10/15/2025	18:14	LB137561
	Silver	1.62	+/-5	U	10.0	P	10/15/2025	18:14	LB137561
	Thallium	4.38	+/-20	U	40.0	P	10/15/2025	18:14	LB137561

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Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Kleinfelder **SDG No.:** Q3341

Contract: POWE02 **Lab Code:** ACE

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB04	Vanadium	6.26	+/-20	U	40.0	P	10/15/2025	18:14	LB137561
	Zinc	16.7	+/-20	U	40.0	P	10/15/2025	18:14	LB137561
CCB05	Aluminum	11.3	+/-50	U	100	P	10/15/2025	19:02	LB137561
	Antimony	6.76	+/-25	U	50.0	P	10/15/2025	19:02	LB137561
	Arsenic	5.12	+/-10	U	20.0	P	10/15/2025	19:02	LB137561
	Barium	14.6	+/-50	U	100	P	10/15/2025	19:02	LB137561
	Beryllium	0.56	+/-3	U	6.00	P	10/15/2025	19:02	LB137561
	Boron	15.7	+/-50	U	100	P	10/15/2025	19:02	LB137561
	Cadmium	0.50	+/-3	U	6.00	P	10/15/2025	19:02	LB137561
	Chromium	2.12	+/-5	U	10.0	P	10/15/2025	19:02	LB137561
	Cobalt	2.26	+/-15	U	30.0	P	10/15/2025	19:02	LB137561
	Copper	4.60	+/-10	U	20.0	P	10/15/2025	19:02	LB137561
	Iron	23.4	+/-50	U	100	P	10/15/2025	19:02	LB137561
	Lead	2.30	+/-6	U	12.0	P	10/15/2025	19:02	LB137561
	Manganese	5.94	+/-10	U	20.0	P	10/15/2025	19:02	LB137561
	Molybdenum	18.7	+/-100	U	200	P	10/15/2025	19:02	LB137561
	Nickel	3.06	+/-20	U	40.0	P	10/15/2025	19:02	LB137561
	Selenium	9.64	+/-10	U	20.0	P	10/15/2025	19:02	LB137561
	Silver	1.62	+/-5	U	10.0	P	10/15/2025	19:02	LB137561
	Thallium	4.38	+/-20	U	40.0	P	10/15/2025	19:02	LB137561
	Vanadium	6.26	+/-20	U	40.0	P	10/15/2025	19:02	LB137561
	Zinc	16.7	+/-20	U	40.0	P	10/15/2025	19:02	LB137561
CCB06	Aluminum	11.3	+/-50	U	100	P	10/15/2025	19:48	LB137561
	Antimony	6.76	+/-25	U	50.0	P	10/15/2025	19:48	LB137561
	Arsenic	5.12	+/-10	U	20.0	P	10/15/2025	19:48	LB137561
	Barium	14.6	+/-50	U	100	P	10/15/2025	19:48	LB137561
	Beryllium	0.56	+/-3	U	6.00	P	10/15/2025	19:48	LB137561
	Boron	15.7	+/-50	U	100	P	10/15/2025	19:48	LB137561
	Cadmium	0.50	+/-3	U	6.00	P	10/15/2025	19:48	LB137561
	Chromium	2.12	+/-5	U	10.0	P	10/15/2025	19:48	LB137561
	Cobalt	2.26	+/-15	U	30.0	P	10/15/2025	19:48	LB137561
	Copper	4.60	+/-10	U	20.0	P	10/15/2025	19:48	LB137561
	Iron	23.4	+/-50	U	100	P	10/15/2025	19:48	LB137561
	Lead	2.30	+/-6	U	12.0	P	10/15/2025	19:48	LB137561
	Manganese	5.94	+/-10	U	20.0	P	10/15/2025	19:48	LB137561
	Molybdenum	18.7	+/-100	U	200	P	10/15/2025	19:48	LB137561
	Nickel	3.06	+/-20	U	40.0	P	10/15/2025	19:48	LB137561
	Selenium	9.64	+/-10	U	20.0	P	10/15/2025	19:48	LB137561
	Silver	1.62	+/-5	U	10.0	P	10/15/2025	19:48	LB137561

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Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Kleinfelder **SDG No.:** Q3341

Contract: POWE02 **Lab Code:** ACE

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB06	Thallium	4.38	+/-20	U	40.0	P	10/15/2025	19:48	LB137561
	Vanadium	6.26	+/-20	U	40.0	P	10/15/2025	19:48	LB137561
	Zinc	16.7	+/-20	U	40.0	P	10/15/2025	19:48	LB137561

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Kleinfelder **SDG No.:** Q3341

Contract: POWE02 **Lab Code:** ACE

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB01	Aluminum	11.3	+/-50	U	100	P	10/16/2025	12:02	LB137573
	Antimony	6.76	+/-25	U	50.0	P	10/16/2025	12:02	LB137573
	Arsenic	5.12	+/-10	U	20.0	P	10/16/2025	12:02	LB137573
	Barium	14.6	+/-50	U	100	P	10/16/2025	12:02	LB137573
	Beryllium	0.56	+/-3	U	6.00	P	10/16/2025	12:02	LB137573
	Boron	15.7	+/-50	U	100	P	10/16/2025	12:02	LB137573
	Cadmium	0.50	+/-3	U	6.00	P	10/16/2025	12:02	LB137573
	Chromium	2.12	+/-5	U	10.0	P	10/16/2025	12:02	LB137573
	Cobalt	2.26	+/-15	U	30.0	P	10/16/2025	12:02	LB137573
	Copper	4.60	+/-10	U	20.0	P	10/16/2025	12:02	LB137573
	Iron	23.4	+/-50	U	100	P	10/16/2025	12:02	LB137573
	Lead	2.30	+/-6	U	12.0	P	10/16/2025	12:02	LB137573
	Manganese	5.94	+/-10	U	20.0	P	10/16/2025	12:02	LB137573
	Molybdenum	18.7	+/-100	U	200	P	10/16/2025	12:02	LB137573
	Nickel	3.06	+/-20	U	40.0	P	10/16/2025	12:02	LB137573
	Selenium	9.64	+/-10	U	20.0	P	10/16/2025	12:02	LB137573
	Silver	1.62	+/-5	U	10.0	P	10/16/2025	12:02	LB137573
	Thallium	4.38	+/-20	U	40.0	P	10/16/2025	12:02	LB137573
	Vanadium	6.26	+/-20	U	40.0	P	10/16/2025	12:02	LB137573
	Zinc	16.7	+/-20	U	40.0	P	10/16/2025	12:02	LB137573

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- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Kleinfelder **SDG No.:** Q3341

Contract: POWE02 **Lab Code:** ACE

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB01	Aluminum	12.2	+/-50	J	100	P	10/16/2025	12:42	LB137573
	Antimony	6.76	+/-25	U	50.0	P	10/16/2025	12:42	LB137573
	Arsenic	5.12	+/-10	U	20.0	P	10/16/2025	12:42	LB137573
	Barium	14.6	+/-50	U	100	P	10/16/2025	12:42	LB137573
	Beryllium	0.56	+/-3	U	6.00	P	10/16/2025	12:42	LB137573
	Boron	15.7	+/-50	U	100	P	10/16/2025	12:42	LB137573
	Cadmium	0.50	+/-3	U	6.00	P	10/16/2025	12:42	LB137573
	Chromium	2.12	+/-5	U	10.0	P	10/16/2025	12:42	LB137573
	Cobalt	2.26	+/-15	U	30.0	P	10/16/2025	12:42	LB137573
	Copper	4.60	+/-10	U	20.0	P	10/16/2025	12:42	LB137573
	Iron	23.4	+/-50	U	100	P	10/16/2025	12:42	LB137573
	Lead	2.30	+/-6	U	12.0	P	10/16/2025	12:42	LB137573
	Manganese	5.94	+/-10	U	20.0	P	10/16/2025	12:42	LB137573
	Molybdenum	18.7	+/-100	U	200	P	10/16/2025	12:42	LB137573
	Nickel	3.06	+/-20	U	40.0	P	10/16/2025	12:42	LB137573
	Selenium	9.64	+/-10	U	20.0	P	10/16/2025	12:42	LB137573
	Silver	1.62	+/-5	U	10.0	P	10/16/2025	12:42	LB137573
	Thallium	4.38	+/-20	U	40.0	P	10/16/2025	12:42	LB137573
	Vanadium	6.26	+/-20	U	40.0	P	10/16/2025	12:42	LB137573
	Zinc	16.7	+/-20	U	40.0	P	10/16/2025	12:42	LB137573
CCB02	Aluminum	31.3	+/-50	J	100	P	10/16/2025	13:49	LB137573
	Antimony	6.76	+/-25	U	50.0	P	10/16/2025	13:49	LB137573
	Arsenic	5.12	+/-10	U	20.0	P	10/16/2025	13:49	LB137573
	Barium	14.6	+/-50	U	100	P	10/16/2025	13:49	LB137573
	Beryllium	0.56	+/-3	U	6.00	P	10/16/2025	13:49	LB137573
	Boron	15.7	+/-50	U	100	P	10/16/2025	13:49	LB137573
	Cadmium	0.50	+/-3	U	6.00	P	10/16/2025	13:49	LB137573
	Chromium	2.12	+/-5	U	10.0	P	10/16/2025	13:49	LB137573
	Cobalt	2.26	+/-15	U	30.0	P	10/16/2025	13:49	LB137573
	Copper	4.60	+/-10	U	20.0	P	10/16/2025	13:49	LB137573
	Iron	23.4	+/-50	U	100	P	10/16/2025	13:49	LB137573
	Lead	2.30	+/-6	U	12.0	P	10/16/2025	13:49	LB137573
	Manganese	5.94	+/-10	U	20.0	P	10/16/2025	13:49	LB137573
	Molybdenum	18.7	+/-100	U	200	P	10/16/2025	13:49	LB137573
	Nickel	3.06	+/-20	U	40.0	P	10/16/2025	13:49	LB137573
	Selenium	9.64	+/-10	U	20.0	P	10/16/2025	13:49	LB137573
	Silver	1.62	+/-5	U	10.0	P	10/16/2025	13:49	LB137573
	Thallium	4.38	+/-20	U	40.0	P	10/16/2025	13:49	LB137573
	Vanadium	6.26	+/-20	U	40.0	P	10/16/2025	13:49	LB137573

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Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Kleinfelder **SDG No.:** Q3341

Contract: POWE02 **Lab Code:** ACE

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB02	Zinc	16.7	+/-20	U	40.0	P	10/16/2025	13:49	LB137573
CCB03	Aluminum	19.5	+/-50	J	100	P	10/16/2025	14:49	LB137573
	Antimony	6.76	+/-25	U	50.0	P	10/16/2025	14:49	LB137573
	Arsenic	5.12	+/-10	U	20.0	P	10/16/2025	14:49	LB137573
	Barium	14.6	+/-50	U	100	P	10/16/2025	14:49	LB137573
	Beryllium	0.56	+/-3	U	6.00	P	10/16/2025	14:49	LB137573
	Boron	15.7	+/-50	U	100	P	10/16/2025	14:49	LB137573
	Cadmium	0.50	+/-3	U	6.00	P	10/16/2025	14:49	LB137573
	Chromium	2.12	+/-5	U	10.0	P	10/16/2025	14:49	LB137573
	Cobalt	2.26	+/-15	U	30.0	P	10/16/2025	14:49	LB137573
	Copper	4.60	+/-10	U	20.0	P	10/16/2025	14:49	LB137573
	Iron	23.4	+/-50	U	100	P	10/16/2025	14:49	LB137573
	Lead	2.30	+/-6	U	12.0	P	10/16/2025	14:49	LB137573
	Manganese	5.94	+/-10	U	20.0	P	10/16/2025	14:49	LB137573
	Molybdenum	18.7	+/-100	U	200	P	10/16/2025	14:49	LB137573
	Nickel	3.06	+/-20	U	40.0	P	10/16/2025	14:49	LB137573
	Selenium	9.64	+/-10	U	20.0	P	10/16/2025	14:49	LB137573
	Silver	1.62	+/-5	U	10.0	P	10/16/2025	14:49	LB137573
	Thallium	4.38	+/-20	U	40.0	P	10/16/2025	14:49	LB137573
	Vanadium	6.26	+/-20	U	40.0	P	10/16/2025	14:49	LB137573
	Zinc	16.7	+/-20	U	40.0	P	10/16/2025	14:49	LB137573
CCB04	Aluminum	32.4	+/-50	J	100	P	10/16/2025	15:43	LB137573
	Antimony	6.76	+/-25	U	50.0	P	10/16/2025	15:43	LB137573
	Arsenic	5.12	+/-10	U	20.0	P	10/16/2025	15:43	LB137573
	Barium	14.6	+/-50	U	100	P	10/16/2025	15:43	LB137573
	Beryllium	0.56	+/-3	U	6.00	P	10/16/2025	15:43	LB137573
	Boron	15.7	+/-50	U	100	P	10/16/2025	15:43	LB137573
	Cadmium	0.50	+/-3	U	6.00	P	10/16/2025	15:43	LB137573
	Chromium	2.12	+/-5	U	10.0	P	10/16/2025	15:43	LB137573
	Cobalt	2.26	+/-15	U	30.0	P	10/16/2025	15:43	LB137573
	Copper	4.60	+/-10	U	20.0	P	10/16/2025	15:43	LB137573
	Iron	23.4	+/-50	U	100	P	10/16/2025	15:43	LB137573
	Lead	2.30	+/-6	U	12.0	P	10/16/2025	15:43	LB137573
	Manganese	5.94	+/-10	U	20.0	P	10/16/2025	15:43	LB137573
	Molybdenum	18.7	+/-100	U	200	P	10/16/2025	15:43	LB137573
	Nickel	3.06	+/-20	U	40.0	P	10/16/2025	15:43	LB137573
	Selenium	9.64	+/-10	U	20.0	P	10/16/2025	15:43	LB137573
	Silver	1.62	+/-5	U	10.0	P	10/16/2025	15:43	LB137573
	Thallium	15.8	+/-20	J	40.0	P	10/16/2025	15:43	LB137573

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Kleinfelder **SDG No.:** Q3341

Contract: POWE02 **Lab Code:** ACE

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB04	Vanadium	6.26	+/-20	U	40.0	P	10/16/2025	15:43	LB137573
	Zinc	16.7	+/-20	U	40.0	P	10/16/2025	15:43	LB137573
CCB05	Aluminum	13.5	+/-50	J	100	P	10/16/2025	16:35	LB137573
	Antimony	6.76	+/-25	U	50.0	P	10/16/2025	16:35	LB137573
	Arsenic	5.12	+/-10	U	20.0	P	10/16/2025	16:35	LB137573
	Barium	14.6	+/-50	U	100	P	10/16/2025	16:35	LB137573
	Beryllium	0.56	+/-3	U	6.00	P	10/16/2025	16:35	LB137573
	Boron	15.7	+/-50	U	100	P	10/16/2025	16:35	LB137573
	Cadmium	0.50	+/-3	U	6.00	P	10/16/2025	16:35	LB137573
	Chromium	2.12	+/-5	U	10.0	P	10/16/2025	16:35	LB137573
	Cobalt	2.26	+/-15	U	30.0	P	10/16/2025	16:35	LB137573
	Copper	4.60	+/-10	U	20.0	P	10/16/2025	16:35	LB137573
	Iron	23.4	+/-50	U	100	P	10/16/2025	16:35	LB137573
	Lead	2.30	+/-6	U	12.0	P	10/16/2025	16:35	LB137573
	Manganese	5.94	+/-10	U	20.0	P	10/16/2025	16:35	LB137573
	Molybdenum	18.7	+/-100	U	200	P	10/16/2025	16:35	LB137573
	Nickel	3.06	+/-20	U	40.0	P	10/16/2025	16:35	LB137573
	Selenium	9.64	+/-10	U	20.0	P	10/16/2025	16:35	LB137573
	Silver	1.62	+/-5	U	10.0	P	10/16/2025	16:35	LB137573
	Thallium	14.1	+/-20	J	40.0	P	10/16/2025	16:35	LB137573
	Vanadium	6.26	+/-20	U	40.0	P	10/16/2025	16:35	LB137573
	Zinc	16.7	+/-20	U	40.0	P	10/16/2025	16:35	LB137573
CCB06	Aluminum	14.7	+/-50	J	100	P	10/16/2025	17:53	LB137573
	Antimony	6.76	+/-25	U	50.0	P	10/16/2025	17:53	LB137573
	Arsenic	5.12	+/-10	U	20.0	P	10/16/2025	17:53	LB137573
	Barium	14.6	+/-50	U	100	P	10/16/2025	17:53	LB137573
	Beryllium	0.56	+/-3	U	6.00	P	10/16/2025	17:53	LB137573
	Boron	15.7	+/-50	U	100	P	10/16/2025	17:53	LB137573
	Cadmium	0.50	+/-3	U	6.00	P	10/16/2025	17:53	LB137573
	Chromium	2.12	+/-5	U	10.0	P	10/16/2025	17:53	LB137573
	Cobalt	2.26	+/-15	U	30.0	P	10/16/2025	17:53	LB137573
	Copper	4.60	+/-10	U	20.0	P	10/16/2025	17:53	LB137573
	Iron	28.7	+/-50	J	100	P	10/16/2025	17:53	LB137573
	Lead	2.30	+/-6	U	12.0	P	10/16/2025	17:53	LB137573
	Manganese	5.94	+/-10	U	20.0	P	10/16/2025	17:53	LB137573
	Molybdenum	18.7	+/-100	U	200	P	10/16/2025	17:53	LB137573
	Nickel	3.06	+/-20	U	40.0	P	10/16/2025	17:53	LB137573
	Selenium	9.64	+/-10	U	20.0	P	10/16/2025	17:53	LB137573
	Silver	1.62	+/-5	U	10.0	P	10/16/2025	17:53	LB137573

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Kleinfelder **SDG No.:** Q3341

Contract: POWE02 **Lab Code:** ACE

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB06	Thallium	4.38	+/-20	U	40.0	P	10/16/2025	17:53	LB137573
	Vanadium	6.26	+/-20	U	40.0	P	10/16/2025	17:53	LB137573
	Zinc	16.7	+/-20	U	40.0	P	10/16/2025	17:53	LB137573
CCB07	Aluminum	11.3	+/-50	U	100	P	10/16/2025	18:46	LB137573
	Antimony	6.76	+/-25	U	50.0	P	10/16/2025	18:46	LB137573
	Arsenic	5.12	+/-10	U	20.0	P	10/16/2025	18:46	LB137573
	Barium	14.6	+/-50	U	100	P	10/16/2025	18:46	LB137573
	Beryllium	0.56	+/-3	U	6.00	P	10/16/2025	18:46	LB137573
	Boron	15.7	+/-50	U	100	P	10/16/2025	18:46	LB137573
	Cadmium	0.50	+/-3	U	6.00	P	10/16/2025	18:46	LB137573
	Chromium	2.12	+/-5	U	10.0	P	10/16/2025	18:46	LB137573
	Cobalt	2.26	+/-15	U	30.0	P	10/16/2025	18:46	LB137573
	Copper	4.60	+/-10	U	20.0	P	10/16/2025	18:46	LB137573
	Iron	23.4	+/-50	U	100	P	10/16/2025	18:46	LB137573
	Lead	2.30	+/-6	U	12.0	P	10/16/2025	18:46	LB137573
	Manganese	5.94	+/-10	U	20.0	P	10/16/2025	18:46	LB137573
	Molybdenum	18.7	+/-100	U	200	P	10/16/2025	18:46	LB137573
	Nickel	3.06	+/-20	U	40.0	P	10/16/2025	18:46	LB137573
	Selenium	9.64	+/-10	U	20.0	P	10/16/2025	18:46	LB137573
	Silver	1.62	+/-5	U	10.0	P	10/16/2025	18:46	LB137573
	Thallium	4.38	+/-20	U	40.0	P	10/16/2025	18:46	LB137573
	Vanadium	6.26	+/-20	U	40.0	P	10/16/2025	18:46	LB137573
	Zinc	16.7	+/-20	U	40.0	P	10/16/2025	18:46	LB137573
CCB08	Aluminum	11.3	+/-50	U	100	P	10/16/2025	19:37	LB137573
	Antimony	6.76	+/-25	U	50.0	P	10/16/2025	19:37	LB137573
	Arsenic	5.12	+/-10	U	20.0	P	10/16/2025	19:37	LB137573
	Barium	14.6	+/-50	U	100	P	10/16/2025	19:37	LB137573
	Beryllium	0.56	+/-3	U	6.00	P	10/16/2025	19:37	LB137573
	Boron	15.7	+/-50	U	100	P	10/16/2025	19:37	LB137573
	Cadmium	0.50	+/-3	U	6.00	P	10/16/2025	19:37	LB137573
	Chromium	2.12	+/-5	U	10.0	P	10/16/2025	19:37	LB137573
	Cobalt	2.26	+/-15	U	30.0	P	10/16/2025	19:37	LB137573
	Copper	4.60	+/-10	U	20.0	P	10/16/2025	19:37	LB137573
	Iron	23.4	+/-50	U	100	P	10/16/2025	19:37	LB137573
	Lead	2.30	+/-6	U	12.0	P	10/16/2025	19:37	LB137573
	Manganese	5.94	+/-10	U	20.0	P	10/16/2025	19:37	LB137573
	Molybdenum	18.7	+/-100	U	200	P	10/16/2025	19:37	LB137573
	Nickel	3.06	+/-20	U	40.0	P	10/16/2025	19:37	LB137573
	Selenium	9.64	+/-10	U	20.0	P	10/16/2025	19:37	LB137573

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Kleinfelder **SDG No.:** Q3341

Contract: POWE02 **Lab Code:** ACE

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB08	Silver	1.62	+/-5	U	10.0	P	10/16/2025	19:37	LB137573
	Thallium	4.38	+/-20	U	40.0	P	10/16/2025	19:37	LB137573
	Vanadium	6.26	+/-20	U	40.0	P	10/16/2025	19:37	LB137573
	Zinc	16.7	+/-20	U	40.0	P	10/16/2025	19:37	LB137573
CCB09	Aluminum	11.3	+/-50	U	100	P	10/16/2025	20:11	LB137573
	Antimony	6.76	+/-25	U	50.0	P	10/16/2025	20:11	LB137573
	Arsenic	5.12	+/-10	U	20.0	P	10/16/2025	20:11	LB137573
	Barium	14.6	+/-50	U	100	P	10/16/2025	20:11	LB137573
	Beryllium	0.56	+/-3	U	6.00	P	10/16/2025	20:11	LB137573
	Boron	15.7	+/-50	U	100	P	10/16/2025	20:11	LB137573
	Cadmium	0.50	+/-3	U	6.00	P	10/16/2025	20:11	LB137573
	Chromium	2.12	+/-5	U	10.0	P	10/16/2025	20:11	LB137573
	Cobalt	2.26	+/-15	U	30.0	P	10/16/2025	20:11	LB137573
	Copper	4.60	+/-10	U	20.0	P	10/16/2025	20:11	LB137573
	Iron	23.4	+/-50	U	100	P	10/16/2025	20:11	LB137573
	Lead	2.30	+/-6	U	12.0	P	10/16/2025	20:11	LB137573
	Manganese	5.94	+/-10	U	20.0	P	10/16/2025	20:11	LB137573
	Molybdenum	18.7	+/-100	U	200	P	10/16/2025	20:11	LB137573
	Nickel	3.06	+/-20	U	40.0	P	10/16/2025	20:11	LB137573
	Selenium	9.64	+/-10	U	20.0	P	10/16/2025	20:11	LB137573
	Silver	1.62	+/-5	U	10.0	P	10/16/2025	20:11	LB137573
	Thallium	4.38	+/-20	U	40.0	P	10/16/2025	20:11	LB137573
	Vanadium	6.26	+/-20	U	40.0	P	10/16/2025	20:11	LB137573
	Zinc	16.7	+/-20	U	40.0	P	10/16/2025	20:11	LB137573

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Metals
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PREPARATION BLANK SUMMARY

Client: Kleinfelder **SDG No.:** Q3341

Instrument: CV1

Sample ID	Analyte	Result (mg/Kg)	Acceptance Limit	Conc Qual	CRQL mg/Kg	M	Analysis Date	Analysis Time	Run
PB170097BL		**SOLID**		**Batch Number:**	**PB170097**		**Prep Date:**	**10/14/2025**	
	Mercury	0.0080	<0.014	U	0.014	CV	10/15/2025	09:22	LB137528

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Metals
- 3b -
PREPARATION BLANK SUMMARY

Client: Kleinfelder **SDG No.:** Q3341

Instrument: P4

Sample ID	Analyte	Result (mg/Kg)	Acceptance Limit	Conc Qual	CRQL mg/Kg	M	Analysis Date	Analysis Time	Run
PB170107BL		**SOLID**		**Batch Number:**	**PB170107**		**Prep Date:**	**10/15/2025**	
	Aluminum	0.84	<2.5	U	5.00	P	10/16/2025	14:55	LB137573
	Antimony	0.22	<1.25	U	2.50	P	10/16/2025	14:55	LB137573
	Arsenic	0.19	<0.5	U	1.00	P	10/16/2025	14:55	LB137573
	Barium	0.73	<2.5	U	5.00	P	10/16/2025	14:55	LB137573
	Beryllium	0.025	<0.15	U	0.30	P	10/16/2025	14:55	LB137573
	Boron	0.80	<2.5	U	5.00	P	10/16/2025	14:55	LB137573
	Cadmium	0.024	<0.15	U	0.30	P	10/16/2025	14:55	LB137573
	Chromium	0.047	<0.25	U	0.50	P	10/16/2025	14:55	LB137573
	Cobalt	0.10	<0.75	U	1.50	P	10/16/2025	14:55	LB137573
	Copper	0.22	<0.5	U	1.00	P	10/16/2025	14:55	LB137573
	Iron	3.99	<2.5	U	5.00	P	10/16/2025	14:55	LB137573
	Lead	0.13	<0.3	U	0.60	P	10/16/2025	14:55	LB137573
	Manganese	0.14	<0.5	U	1.00	P	10/16/2025	14:55	LB137573
	Molybdenum	0.81	<5	U	10.0	P	10/16/2025	14:55	LB137573
	Nickel	0.13	<1	U	2.00	P	10/16/2025	14:55	LB137573
	Selenium	0.26	<0.5	U	1.00	P	10/16/2025	14:55	LB137573
	Silver	0.12	<0.25	U	0.50	P	10/16/2025	14:55	LB137573
	Thallium	0.86	<1	J	2.00	P	10/16/2025	14:55	LB137573
	Vanadium	0.25	<1	U	2.00	P	10/16/2025	14:55	LB137573
	Zinc	0.23	<1	U	2.00	P	10/16/2025	14:55	LB137573

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Metals
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INTERFERENCE CHECK SAMPLE

Client: Kleinfelder **SDG No.:** Q3341

Contract: POWE02 **Lab Code:** ACE

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

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Low Limit (ug/L)	High Limit (ug/L)	Analysis Date	Analysis Time	Run Number
ICSA01	Aluminum	256000	255000	100	216000	294000	10/15/2025	14:39	LB137561
	Antimony	-2.37			-50	50	10/15/2025	14:39	LB137561
	Arsenic	6.97			-20	20	10/15/2025	14:39	LB137561
	Barium	0.98	6.0	16	-94	106	10/15/2025	14:39	LB137561
	Beryllium	0.97			-6	6	10/15/2025	14:39	LB137561
	Boron	57.8	1000	6	-100	100	10/15/2025	14:39	LB137561
	Cadmium	1.63	1.0	163	-5	7	10/15/2025	14:39	LB137561
	Chromium	50.6	52.0	97	42	62	10/15/2025	14:39	LB137561
	Cobalt	2.17			-30	30	10/15/2025	14:39	LB137561
	Copper	14.8	2.0	740	-18	22	10/15/2025	14:39	LB137561
	Iron	107000	101000	106	85600	116500	10/15/2025	14:39	LB137561
	Lead	4.81			-12	12	10/15/2025	14:39	LB137561
	Manganese	6.82	7.0	97	-13	27	10/15/2025	14:39	LB137561
	Molybdenum	0.25	1000		-200	200	10/15/2025	14:39	LB137561
	Nickel	3.49	2.0	174	-38	42	10/15/2025	14:39	LB137561
	Selenium	7.56			-20	20	10/15/2025	14:39	LB137561
	Silver	-6.59			-10	10	10/15/2025	14:39	LB137561
	Thallium	14.5			-40	40	10/15/2025	14:39	LB137561
	Vanadium	1.28			-40	40	10/15/2025	14:39	LB137561
	Zinc	4.18			-40	40	10/15/2025	14:39	LB137561
ICSAB01	Aluminum	226000	247000	92	209000	285000	10/15/2025	14:52	LB137561
	Antimony	548	618	89	525	711	10/15/2025	14:52	LB137561
	Arsenic	97.5	104	94	88.4	120	10/15/2025	14:52	LB137561
	Barium	445	537	83	437	637	10/15/2025	14:52	LB137561
	Beryllium	464	495	94	420	570	10/15/2025	14:52	LB137561
	Boron	904	1000	90	850	1150	10/15/2025	14:52	LB137561
	Cadmium	914	972	94	826	1120	10/15/2025	14:52	LB137561
	Chromium	504	542	93	460	624	10/15/2025	14:52	LB137561
	Cobalt	461	476	97	404	548	10/15/2025	14:52	LB137561
	Copper	452	511	88	434	588	10/15/2025	14:52	LB137561
	Iron	91100	99300	92	84400	114500	10/15/2025	14:52	LB137561
	Lead	44.5	49.0	91	37	61	10/15/2025	14:52	LB137561
	Manganese	447	507	88	430	584	10/15/2025	14:52	LB137561
	Molybdenum	901	1000	90	850	1150	10/15/2025	14:52	LB137561
	Nickel	918	954	96	810	1100	10/15/2025	14:52	LB137561
	Selenium	48.7	46.0	106	26	66	10/15/2025	14:52	LB137561
	Silver	184	201	92	170	232	10/15/2025	14:52	LB137561
	Thallium	115	108	106	68	148	10/15/2025	14:52	LB137561
	Vanadium	437	491	89	417	565	10/15/2025	14:52	LB137561
	Zinc	954	952	100	809	1095	10/15/2025	14:52	LB137561
ICSA01	Aluminum	257000	255000	101	216000	294000	10/16/2025	12:17	LB137573
	Antimony	-4.00			-50	50	10/16/2025	12:17	LB137573

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Metals
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INTERFERENCE CHECK SAMPLE

Client: Kleinfelder **SDG No.:** Q3341

Contract: POWE02 **Lab Code:** ACE

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

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Low Limit (ug/L)	High Limit (ug/L)	Analysis Date	Analysis Time	Run Number
ICSA01	Arsenic	4.93			-20	20	10/16/2025	12:17	LB137573
	Barium	0.59	6.0	10	-94	106	10/16/2025	12:17	LB137573
	Beryllium	1.87			-6	6	10/16/2025	12:17	LB137573
	Boron	49.8	1000	5	-100	100	10/16/2025	12:17	LB137573
	Cadmium	1.20	1.0	120	-5	7	10/16/2025	12:17	LB137573
	Chromium	50.2	52.0	96	42	62	10/16/2025	12:17	LB137573
	Cobalt	1.97			-30	30	10/16/2025	12:17	LB137573
	Copper	12.9	2.0	645	-18	22	10/16/2025	12:17	LB137573
	Iron	104000	101000	103	85600	116500	10/16/2025	12:17	LB137573
	Lead	3.50			-12	12	10/16/2025	12:17	LB137573
	Manganese	8.05	7.0	115	-13	27	10/16/2025	12:17	LB137573
	Molybdenum	-0.44	1000		-200	200	10/16/2025	12:17	LB137573
	Nickel	3.93	2.0	196	-38	42	10/16/2025	12:17	LB137573
	Selenium	8.68			-20	20	10/16/2025	12:17	LB137573
	Silver	-7.19			-10	10	10/16/2025	12:17	LB137573
	Thallium	-7.34			-40	40	10/16/2025	12:17	LB137573
	Vanadium	4.50			-40	40	10/16/2025	12:17	LB137573
	Zinc	3.40			-40	40	10/16/2025	12:17	LB137573
ICSAB01	Aluminum	250000	247000	101	209000	285000	10/16/2025	12:21	LB137573
	Antimony	604	618	98	525	711	10/16/2025	12:21	LB137573
	Arsenic	108	104	104	88.4	120	10/16/2025	12:21	LB137573
	Barium	504	537	94	437	637	10/16/2025	12:21	LB137573
	Beryllium	523	495	106	420	570	10/16/2025	12:21	LB137573
	Boron	949	1000	95	850	1150	10/16/2025	12:21	LB137573
	Cadmium	1010	972	104	826	1120	10/16/2025	12:21	LB137573
	Chromium	551	542	102	460	624	10/16/2025	12:21	LB137573
	Cobalt	512	476	108	404	548	10/16/2025	12:21	LB137573
	Copper	500	511	98	434	588	10/16/2025	12:21	LB137573
	Iron	102000	99300	103	84400	114500	10/16/2025	12:21	LB137573
	Lead	49.7	49.0	101	37	61	10/16/2025	12:21	LB137573
	Manganese	511	507	101	430	584	10/16/2025	12:21	LB137573
	Molybdenum	939	1000	94	850	1150	10/16/2025	12:21	LB137573
	Nickel	1010	954	106	810	1100	10/16/2025	12:21	LB137573
	Selenium	55.7	46.0	121	26	66	10/16/2025	12:21	LB137573
	Silver	203	201	101	170	232	10/16/2025	12:21	LB137573
	Thallium	102	108	94	68	148	10/16/2025	12:21	LB137573
	Vanadium	487	491	99	417	565	10/16/2025	12:21	LB137573
	Zinc	1050	952	110	809	1095	10/16/2025	12:21	LB137573

METAL QC DATA

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metals
- 5a -
MATRIX SPIKE SUMMARY

client: Kleinfelder **level:** low **sdg no.:** Q3341

contract: POWE02 **lab code:** ACE

matrix: Solid **sample id:** Q3343-01 **client id:** SOIL-ROLLOFF-WC-1MS

Percent Solids for Sample: 90.3 **Spiked ID:** Q3343-01MS **Percent Solids for Spike Sample:** 90.3

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Mercury	mg/Kg	80 - 120	0.47		0.24		0.27	86		CV

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metals
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: Kleinfelder **level:** low **sdg no.:** Q3341

contract: POWE02 **lab code:** ACE

matrix: Solid **sample id:** Q3343-01 **client id:** SOIL-ROLLOFF-WC-1MSD

Percent Solids for Sample: 90.3 **Spiked ID:** Q3343-01MSD **Percent Solids for Spike Sample:** 90.3

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Mercury	mg/Kg	80 - 120	0.48		0.24		0.27	89		CV

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metals
- 5a -
MATRIX SPIKE SUMMARY

client: Kleinfelder **level:** low **sdg no.:** Q3341

contract: POWE02 **lab code:** ACE

matrix: Solid **sample id:** Q3345-03 **client id:** 2ND-STREET-SOILMS

Percent Solids for Sample: 87.5 **Spiked ID:** Q3345-03MS **Percent Solids for Spike Sample:** 87.5

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Aluminum	mg/Kg	75 - 125	5160		4210		110	863		P
Antimony	mg/Kg	75 - 125	22.0		2.46	U	42.7	52	N	P
Arsenic	mg/Kg	75 - 125	38.3		1.82		42.7	85		P
Barium	mg/Kg	75 - 125	37.3		22.4		10.7	139	N	P
Beryllium	mg/Kg	75 - 125	10.2		0.27	J	10.7	93		P
Boron	mg/Kg	75 - 125	21.3		4.46	J	16.0	106		P
Cadmium	mg/Kg	75 - 125	10.0		0.22	J	10.7	92		P
Chromium	mg/Kg	75 - 125	28.0		7.65		21.4	95		P
Cobalt	mg/Kg	75 - 125	15.2		3.12		10.7	113		P
Copper	mg/Kg	75 - 125	24.6		8.27		16.0	102		P
Iron	mg/Kg	75 - 125	7510		6900		160	381		P
Lead	mg/Kg	75 - 125	58.6		11.6		53.4	88		P
Manganese	mg/Kg	75 - 125	90.2		55.2		10.7	327		P
Molybdenum	mg/Kg	75 - 125	19.3		9.85	U	21.4	90		P
Nickel	mg/Kg	75 - 125	32.8		6.78		26.7	97		P
Selenium	mg/Kg	75 - 125	87.9		0.99	U	110	80		P
Silver	mg/Kg	75 - 125	2.51		0.49	U	4.0	63	N	P
Thallium	mg/Kg	75 - 125	100		1.97	U	110	91		P
Vanadium	mg/Kg	75 - 125	24.8		9.73		16.0	94		P
Zinc	mg/Kg	75 - 125	47.4		33.8		10.7	128	N	P

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metals
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: Kleinfelder **level:** low **sdg no.:** Q3341

contract: POWE02 **lab code:** ACE

matrix: Solid **sample id:** Q3345-03 **client id:** 2ND-STREET-SOILMSD

Percent Solids for Sample: 87.5 **Spiked ID:** Q3345-03MSD **Percent Solids for Spike Sample:** 87.5

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Aluminum	mg/Kg	75 - 125	5820		4210		100	1610		P
Antimony	mg/Kg	75 - 125	20.6		2.46	U	40.3	51	N	P
Arsenic	mg/Kg	75 - 125	37.9		1.82		40.3	89		P
Barium	mg/Kg	75 - 125	36.7		22.4		10.1	142	N	P
Beryllium	mg/Kg	75 - 125	9.87		0.27	J	10.1	95		P
Boron	mg/Kg	75 - 125	18.0		4.46	J	15.1	90		P
Cadmium	mg/Kg	75 - 125	9.85		0.22	J	10.1	95		P
Chromium	mg/Kg	75 - 125	28.5		7.65		20.1	104		P
Cobalt	mg/Kg	75 - 125	13.5		3.12		10.1	103		P
Copper	mg/Kg	75 - 125	22.0		8.27		15.1	91		P
Iron	mg/Kg	75 - 125	8340		6900		150	960		P
Lead	mg/Kg	75 - 125	57.3		11.6		50.3	91		P
Manganese	mg/Kg	75 - 125	77.9		55.2		10.1	224		P
Molybdenum	mg/Kg	75 - 125	18.6		9.85	U	20.1	92		P
Nickel	mg/Kg	75 - 125	32.7		6.78		25.2	103		P
Selenium	mg/Kg	75 - 125	87.3		0.99	U	100	87		P
Silver	mg/Kg	75 - 125	2.26		0.49	U	3.8	60	N	P
Thallium	mg/Kg	75 - 125	96.8		1.97	U	100	97		P
Vanadium	mg/Kg	75 - 125	25.2		9.73		15.1	102		P
Zinc	mg/Kg	75 - 125	48.3		33.8		10.1	143	N	P

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Metals
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POST DIGEST SPIKE SUMMARY

Client: Kleinfelder **SDG No.:** Q3341

Contract: POWE02 **Lab Code:** ACE

Matrix: Solid **Level:** LOW **Client ID:** 2ND-STREET-SOILA

Sample ID: Q3345-03 **Spiked ID:** Q3345-03A

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Antimony	mg/Kg	75 - 125	33.3		2.46	U	39.4	84		P
Barium	mg/Kg	75 - 125	27.6		22.4		9.90	52	N	P
Silver	mg/Kg	75 - 125	1.21		0.49	U	3.70	33	N	P
Zinc	mg/Kg	75 - 125	41.1		33.8		9.90	74	N	P

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Metals

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DUPLICATE SAMPLE SUMMARY

Client: Kleinfelder **Level:** LOW **SDG No.:** Q3341

Contract: POWE02 **Lab Code:** ACE

Matrix: Solid **Sample ID:** Q3343-01 **Client ID:** SOIL-ROLLOFF-WC-1DUP

Percent Solids for Sample: 90.3 **Duplicate ID** Q3343-01DUP **Percent Solids for Spike Sample:** 90.3

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Mercury	mg/Kg	20	0.24		0.26		10		CV

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

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Metals

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DUPLICATE SAMPLE SUMMARY

Client: Kleinfelder **Level:** LOW **SDG No.:** Q3341

Contract: POWE02 **Lab Code:** ACE

Matrix: Solid **Sample ID:** Q3343-01MS **Client ID:** SOIL-ROLLOFF-WC-1MSD

Percent Solids for Sample: 90.3 **Duplicate ID** Q3343-01MSD **Percent Solids for Spike Sample:** 90.3

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Mercury	mg/Kg	20	0.47		0.48		2		CV

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

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Metals

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DUPLICATE SAMPLE SUMMARY

Client: Kleinfelder **Level:** LOW **SDG No.:** Q3341

Contract: POWE02 **Lab Code:** ACE

Matrix: Solid **Sample ID:** Q3345-03 **Client ID:** 2ND-STREET-SOILDUP

Percent Solids for Sample: 87.5 **Duplicate ID** Q3345-03DUP **Percent Solids for Spike Sample:** 87.5

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Aluminum	mg/Kg	20	4210		4450		6		P
Antimony	mg/Kg	20	2.46	U	2.51	U			P
Arsenic	mg/Kg	20	1.82		1.93		6		P
Barium	mg/Kg	20	22.4		23.9		6		P
Beryllium	mg/Kg	20	0.27	J	0.29	J	6		P
Boron	mg/Kg	20	4.46	J	4.99	J	11		P
Cadmium	mg/Kg	20	0.22	J	0.24	J	11		P
Chromium	mg/Kg	20	7.65		8.02		5		P
Cobalt	mg/Kg	20	3.12		3.32		6		P
Copper	mg/Kg	20	8.27		8.80		6		P
Iron	mg/Kg	20	6900		7140		3		P
Lead	mg/Kg	20	11.6		12.2		5		P
Manganese	mg/Kg	20	55.2		59.0		7		P
Molybdenum	mg/Kg	20	9.85	U	10.0	U			P
Nickel	mg/Kg	20	6.78		7.21		6		P
Selenium	mg/Kg	20	0.99	U	1.00	U			P
Silver	mg/Kg	20	0.49	U	0.50	U			P
Thallium	mg/Kg	20	1.97	U	2.01	U			P
Vanadium	mg/Kg	20	9.73		10.1		3		P
Zinc	mg/Kg	20	33.8		34.9		3		P

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

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Metals

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DUPLICATE SAMPLE SUMMARY

Client: Kleinfelder **Level:** LOW **SDG No.:** Q3341

Contract: POWE02 **Lab Code:** ACE

Matrix: Solid **Sample ID:** Q3345-03MS **Client ID:** 2ND-STREET-SOILMSD

Percent Solids for Sample: 87.5 **Duplicate ID** Q3345-03MSD **Percent Solids for Spike Sample:** 87.5

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Aluminum	mg/Kg	20	5160		5820		12		P
Antimony	mg/Kg	20	22.0		20.6		7		P
Arsenic	mg/Kg	20	38.3		37.9		1		P
Barium	mg/Kg	20	37.3		36.7		2		P
Beryllium	mg/Kg	20	10.2		9.87		3		P
Boron	mg/Kg	20	21.3		18.0		17		P
Cadmium	mg/Kg	20	10.0		9.85		2		P
Chromium	mg/Kg	20	28.0		28.5		2		P
Cobalt	mg/Kg	20	15.2		13.5		12		P
Copper	mg/Kg	20	24.6		22.0		11		P
Iron	mg/Kg	20	7510		8340		10		P
Lead	mg/Kg	20	58.6		57.3		2		P
Manganese	mg/Kg	20	90.2		77.9		15		P
Molybdenum	mg/Kg	20	19.3		18.6		4		P
Nickel	mg/Kg	20	32.8		32.7		0		P
Selenium	mg/Kg	20	87.9		87.3		1		P
Silver	mg/Kg	20	2.51		2.26		10		P
Thallium	mg/Kg	20	100		96.8		3		P
Vanadium	mg/Kg	20	24.8		25.2		2		P
Zinc	mg/Kg	20	47.4		48.3		2		P

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

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LABORATORY CONTROL SAMPLE SUMMARY

Client: Kleinfelder **SDG No.:** Q3341

Contract: POWE02 **Lab Code:** ACE

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB170097BS							
Mercury	mg/Kg	0.28	0.27		96	80 - 120	CV

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LABORATORY CONTROL SAMPLE SUMMARY

Client: Kleinfelder **SDG No.:** Q3341

Contract: POWE02 **Lab Code:** ACE

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB170107BS							
Aluminum	mg/Kg	100	90.5		90	80 - 120	P
Antimony	mg/Kg	40.0	37.9		95	80 - 120	P
Arsenic	mg/Kg	40.0	36.4		91	80 - 120	P
Barium	mg/Kg	10.0	8.65		86	80 - 120	P
Beryllium	mg/Kg	10.0	9.39		94	80 - 120	P
Boron	mg/Kg	15.0	13.7		91	80 - 120	P
Cadmium	mg/Kg	10.0	8.61		86	80 - 120	P
Chromium	mg/Kg	20.0	18.7		94	80 - 120	P
Cobalt	mg/Kg	10.0	8.84		88	80 - 120	P
Copper	mg/Kg	15.0	14.4		96	80 - 120	P
Iron	mg/Kg	150	136		91	80 - 120	P
Lead	mg/Kg	50.0	43.4		87	80 - 120	P
Manganese	mg/Kg	10.0	9.09		91	80 - 120	P
Molybdenum	mg/Kg	20.0	19.0		95	80 - 120	P
Nickel	mg/Kg	25.0	22.2		89	80 - 120	P
Selenium	mg/Kg	100	93.8		94	80 - 120	P
Silver	mg/Kg	3.8	3.49		92	80 - 120	P
Thallium	mg/Kg	100	106		106	80 - 120	P
Vanadium	mg/Kg	15.0	13.5		90	80 - 120	P
Zinc	mg/Kg	10.0	9.63		96	80 - 120	P

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Metals

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ICP SERIAL DILUTIONS

SAMPLE NO.

SOIL-ROLLOFF-WC-1L

Lab Name: Alliance **Contract:** POWE02

Lab Code: ACE **Lb No.:** lb137528 **Lab Sample ID :** Q3343-01L **SDG No.:** Q3341

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

Concentration Units: mg/Kg

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	M
Mercury	0.24		0.24		1		CV

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Metals

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ICP SERIAL DILUTIONS

SAMPLE NO.

2ND-STREET-SOILL

Lab Name: Alliance **Contract:** POWE02

Lab Code: ACE **Lb No.:** lb137561 **Lab Sample ID :** Q3345-03L **SDG No.:** Q3341

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

Concentration Units: mg/Kg

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	M
Aluminum	4210		5010		19		P
Antimony	2.46	U	12.3	U			P
Arsenic	1.82		2.54	J	40		P
Barium	22.4		26.9		20		P
Beryllium	0.27	J	0.33	J	23		P
Boron	4.46	J	24.6	U	100.0		P
Cadmium	0.22	J	0.13	J	42		P
Chromium	7.65		9.02		18		P
Cobalt	3.12		3.36	J	8		P
Copper	8.27		10.1		22		P
Iron	6900		7840		14		P
Lead	11.6		12.6		9		P
Manganese	55.2		67.2		22		P
Molybdenum	9.85	U	49.3	U			P
Nickel	6.78		7.39	J	9		P
Selenium	0.99	U	4.93	U			P
Silver	0.49	U	2.46	U			P
Thallium	1.97	U	9.85	U			P
Vanadium	9.73		10.9		12		P
Zinc	33.8		38.4		14		P

METAL PREPARATION & INSTRUMENT DATA

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ICP INTERELEMENT CORRECTION FACTORS

Client: Kleinfelder **SDG No.:** Q3341

Contract: POWE02 **Lab Code:** ACE

Instrument ID: **Date:**

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave-Length (nm)	ICP Interelement Correction Factors For: Al	Ca	Fe	Mg	Ag
Aluminum	396.100	0.0000000	-0.0002060	0.0000000	0.0000000	0.0000000
Antimony	206.833	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	193.759	0.0000000	0.0000000	-0.0000440	0.0000000	0.0000000
Barium	493.409	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	234.861	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.502	0.0000000	0.0000000	0.0000930	0.0000000	0.0000000
Chromium	267.716	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.616	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	224.700	0.0000000	0.0000000	0.0007850	0.0000000	0.0000000
Iron	240.488	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.353	-0.0000920	0.0000000	0.0000380	0.0000000	0.0000000
Manganese	257.610	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.604	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.090	0.0000000	0.0000000	-0.0001440	0.0000000	0.0000000
Silver	328.068	0.0000000	0.0000000	-0.0001490	0.0000000	0.0000000
Thallium	190.856	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.402	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	213.800	0.0000000	0.0000000	0.0001050	0.0000000	0.0000000

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ICP INTERELEMENT CORRECTION FACTORS

Client: Kleinfelder **SDG No.:** Q3341

Contract: POWE02 **Lab Code:** ACE

Instrument ID: **Date:**

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave-Length (nm)	ICP Interelement Correction Factors For: As	Ba	Be	Cd	Co
Aluminum	396.100	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.833	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	193.759	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	493.409	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	234.861	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.502	0.0000000	0.0000000	0.0000000	0.0000000	0.0002870
Chromium	267.716	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.616	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	224.700	0.0000000	0.0000000	0.0000000	0.0000000	0.0009530
Iron	240.488	0.0000000	0.0000000	0.0000000	0.0000000	-0.0039600
Lead	220.353	0.0000000	0.0003170	0.0000000	0.0000000	0.0000000
Manganese	257.610	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.604	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.090	0.0000000	0.0000000	0.0000000	0.0000000	-0.0003570
Silver	328.068	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.856	0.0000000	0.0000000	0.0000000	0.0000000	0.0054900
Vanadium	292.402	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	213.800	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

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ICP INTERELEMENT CORRECTION FACTORS

Client: Kleinfelder **SDG No.:** Q3341

Contract: POWE02 **Lab Code:** ACE

Instrument ID: **Date:**

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave-Length (nm)	ICP Interelement Correction Factors For: Cr	Cu	K	Mn	Mo
Aluminum	396.100	0.0000000	0.0000000	0.0000590	0.0000000	0.0396900
Antimony	206.833	0.0122000	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	193.759	-0.0029000	0.0000000	0.0000000	0.0000000	0.0004900
Barium	493.409	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	234.861	0.0000000	0.0000000	0.0000000	-0.0000710	-0.0003400
Cadmium	226.502	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.716	0.0000000	0.0000000	0.0000070	0.0002200	0.0000000
Cobalt	228.616	0.0000000	0.0000000	0.0000000	0.0000000	-0.0007860
Copper	224.700	0.0000000	0.0000000	0.0000000	0.0006510	0.0020500
Iron	240.488	0.0000000	0.0000000	0.0000730	0.0000000	-0.0015250
Lead	220.353	0.0000000	0.0000000	0.0000000	0.0001400	-0.0008600
Manganese	257.610	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.604	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.090	0.0000000	0.0000000	0.0000000	0.0007460	0.0000000
Silver	328.068	0.0000000	0.0000000	0.0000000	0.0000000	-0.0000120
Thallium	190.856	0.0000000	0.0000000	0.0000000	0.0017400	-0.0100400
Vanadium	292.402	-0.0025100	0.0000000	0.0000000	0.0000000	-0.0072000
Zinc	213.800	0.0000000	0.0009010	0.0000000	0.0000000	0.0000000

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ICP INTERELEMENT CORRECTION FACTORS

Client: Kleinfelder **SDG No.:** Q3341

Contract: POWE02 **Lab Code:** ACE

Instrument ID: **Date:**

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

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

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ICP INTERELEMENT CORRECTION FACTORS

Client: Kleinfelder **SDG No.:** Q3341

Contract: POWE02 **Lab Code:** ACE

Instrument ID: **Date:**

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

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

METAL PREPARATION & ANALYICAL SUMMARY

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SAMPLE PREPARATION SUMMARY

Client: Kleinfelder **SDG No.:** Q3341

Contract: POWE02 **Lab Code:** ACE **Method:**

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(g)	Final Sample Volume (mL)	Percent Solids
Batch Number:	**PB170097**						
PB170097BL	PB170097BL	MB	SOLID	10/14/2025	0.50	35.0	100.00
PB170097BS	PB170097BS	LCS	SOLID	10/14/2025	0.50	35.0	100.00
Q3341-01	C-1	SAM	SOLID	10/14/2025	0.54	35.0	78.90
Q3341-02	C-2	SAM	SOLID	10/14/2025	0.58	35.0	82.70
Q3341-03	C-3	SAM	SOLID	10/14/2025	0.56	35.0	80.10
Q3343-01DUP	SOIL-ROLLOFF-WC-1DUP	DUP	SOLID	10/14/2025	0.57	35.0	90.30
Q3343-01MS	SOIL-ROLLOFF-WC-1MS	MS	SOLID	10/14/2025	0.57	35.0	90.30
Q3343-01MSD	SOIL-ROLLOFF-WC-1MSD	MSD	SOLID	10/14/2025	0.57	35.0	90.30

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SAMPLE PREPARATION SUMMARY

Client: Kleinfelder **SDG No.:** Q3341

Contract: POWE02 **Lab Code:** ACE **Method:**

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(g)	Final Sample Volume (mL)	Percent Solids
Batch Number:	**PB170107**						
PB170107BL	PB170107BL	MB	SOLID	10/15/2025	2.00	100.0	100.00
PB170107BS	PB170107BS	LCS	SOLID	10/15/2025	2.00	100.0	100.00
Q3341-01	C-1	SAM	SOLID	10/15/2025	2.40	100.0	78.90
Q3341-02	C-2	SAM	SOLID	10/15/2025	2.36	100.0	82.70
Q3341-03	C-3	SAM	SOLID	10/15/2025	2.30	100.0	80.10
Q3345-03DUP	2ND-STREET-SOILDUP	DUP	SOLID	10/15/2025	2.28	100.0	87.50
Q3345-03MS	2ND-STREET-SOILMS	MS	SOLID	10/15/2025	2.14	100.0	87.50
Q3345-03MSD	2ND-STREET-SOILMSD	MSD	SOLID	10/15/2025	2.27	100.0	87.50

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ANALYSIS RUN LOG

Client: Kleinfelder **Contract:** POWE02

Lab code: ACE **Sdg no.:** Q3341

Instrument id number: **Method:** **Run number:** LB137528

Start date: 10/15/2025 **End date:** 10/15/2025

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	0847	HG
S0.2	S0.2	1	0849	HG
S2.5	S2.5	1	0851	HG
S5	S5	1	0854	HG
S7.5	S7.5	1	0856	HG
S10	S10	1	0859	HG
ICV71	ICV71	1	0902	HG
ICB71	ICB71	1	0908	HG
CCV29	CCV29	1	0910	HG
CCB29	CCB29	1	0912	HG
PB170097BL	PB170097BL	1	0922	HG
PB170097BS	PB170097BS	1	0928	HG
Q3341-01	C-1	1	0935	HG
Q3341-02	C-2	1	0937	HG
Q3341-03	C-3	1	0940	HG
CCV30	CCV30	1	0942	HG
CCB30	CCB30	1	0944	HG
Q3343-01DUP	SOIL-ROLLOFF-WC-1DUP	1	0952	HG
Q3343-01MS	SOIL-ROLLOFF-WC-1MS	1	0954	HG
Q3343-01MSD	SOIL-ROLLOFF-WC-1MSD	1	1003	HG
Q3343-01L	SOIL-ROLLOFF-WC-1L	5	1013	HG
CCV31	CCV31	1	1018	HG
CCB31	CCB31	1	1023	HG
CRA	CRA	1	1027	HG
CCV32	CCV32	1	1030	HG
CCB32	CCB32	1	1032	HG

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ANALYSIS RUN LOG

Client: Kleinfelder **Contract:** POWE02

Lab code: ACE **Sdg no.:** Q3341

Instrument id number: **Method:** **Run number:** LB137561

Start date: 10/15/2025 **End date:** 10/15/2025

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1315	Ag,Al,As,B,Ba,Be,Cd,Co,Cr,Cu,Fe,Mn,Mo,Ni,Pb,Sb,Se,Tl,V,Zn
S1	S1	1	1319	Ag,Al,As,B,Ba,Be,Cd,Co,Cr,Cu,Fe,Mn,Mo,Ni,Pb,Sb,Se,Tl,V,Zn
S2	S2	1	1324	Ag,Al,As,B,Ba,Be,Cd,Co,Cr,Cu,Fe,Mn,Mo,Ni,Pb,Sb,Se,Tl,V,Zn
S3	S3	1	1328	Ag,Al,As,B,Ba,Be,Cd,Co,Cr,Cu,Fe,Mn,Mo,Ni,Pb,Sb,Se,Tl,V,Zn
S4	S4	1	1332	Ag,Al,As,B,Ba,Be,Cd,Co,Cr,Cu,Fe,Mn,Mo,Ni,Pb,Sb,Se,Tl,V,Zn
S5	S5	1	1336	Ag,Al,As,B,Ba,Be,Cd,Co,Cr,Cu,Fe,Mn,Mo,Ni,Pb,Sb,Se,Tl,V,Zn
ICV01	ICV01	1	1407	Ag,Al,As,B,Ba,Be,Cd,Co,Cr,Cu,Fe,Mn,Mo,Ni,Pb,Sb,Se,Tl,V,Zn
LLICV01	LLICV01	1	1419	Ag,Al,As,B,Ba,Be,Cd,Co,Cr,Cu,Fe,Mn,Mo,Ni,Pb,Sb,Se,Tl,V,Zn
ICB01	ICB01	1	1424	Ag,Al,As,B,Ba,Be,Cd,Co,Cr,Cu,Fe,Mn,Mo,Ni,Pb,Sb,Se,Tl,V,Zn
CRI01	CRI01	1	1428	Ag,Al,As,B,Ba,Be,Cd,Co,Cr,Cu,Fe,Mn,Mo,Ni,Pb,Sb,Se,Tl,V,Zn
ICSA01	ICSA01	1	1439	Ag,Al,As,B,Ba,Be,Cd,Co,Cr,Cu,Fe,Mn,Mo,Ni,Pb,Sb,Se,Tl,V,Zn
ICSAB01	ICSAB01	1	1452	Ag,Al,As,B,Ba,Be,Cd,Co,Cr,Cu,Fe,Mn,Mo,Ni,Pb,Sb,Se,Tl,V,Zn
CCV01	CCV01	1	1509	Ag,Al,As,B,Ba,Be,Cd,Co,Cr,Cu,Fe,Mn,Mo,Ni,Pb,Sb,Se,Tl,V,Zn
CCB01	CCB01	1	1513	Ag,Al,As,B,Ba,Be,Cd,Co,Cr,Cu,Fe,Mn,Mo,Ni,Pb,Sb,Se,Tl,V,Zn
CCV02	CCV02	1	1628	Ag,Al,As,B,Ba,Be,Cd,Co,Cr,Cu,Fe,Mn,Mo,Ni,Pb,Sb,Se,Tl,V,Zn
CCB02	CCB02	1	1632	Ag,Al,As,B,Ba,Be,Cd,Co,Cr,Cu,Fe,Mn,Mo,Ni,Pb,Sb,Se,Tl,V,Zn
CCV03	CCV03	1	1721	Ag,Al,As,B,Ba,Be,Cd,Co,Cr,Cu,Fe,Mn,Mo,Ni,Pb,Sb,Se,Tl,V,Zn
CCB03	CCB03	1	1725	Ag,Al,As,B,Ba,Be,Cd,Co,Cr,Cu,Fe,Mn,Mo,Ni,Pb,Sb,Se,Tl,V,Zn
CCV04	CCV04	1	1810	Ag,Al,As,B,Ba,Be,Cd,Co,Cr,Cu,Fe,Mn,Mo,Ni,Pb,Sb,Se,Tl,V,Zn
CCB04	CCB04	1	1814	Ag,Al,As,B,Ba,Be,Cd,Co,Cr,Cu,Fe,Mn,Mo,Ni,Pb,Sb,Se,Tl,V,Zn
Q3345-03DUP	2ND-STREET-SOILDUP	1	1830	Ag,Al,As,B,Ba,Be,Cd,Co,Cr,Cu,Fe,Mn,Mo,Ni,Pb,Sb,Se,Tl,V,Zn
Q3345-03L	2ND-STREET-SOILL	5	1834	Ag,Al,As,B,Ba,Be,Cd,Co,Cr,Cu,Fe,Mn,Mo,Ni,Pb,Sb,Se,Tl,V,Zn
Q3345-03MS	2ND-STREET-SOILMS	1	1838	Ag,Al,As,B,Ba,Be,Cd,Co,Cr,Cu,Fe,Mn,Mo,Ni,Pb,Sb,Se,Tl,V,Zn
Q3345-03MSD	2ND-STREET-SOILMSD	1	1842	Ag,Al,As,B,Ba,Be,Cd,Co,Cr,Cu,Fe,Mn,Mo,Ni,Pb,Sb,Se,Tl,V,Zn
Q3345-03A	2ND-STREET-SOILA	1	1846	Ag,Ba,Sb,Zn
CCV05	CCV05	1	1858	Ag,Al,As,B,Ba,Be,Cd,Co,Cr,Cu,Fe,Mn,Mo,Ni,Pb,Sb,Se,Tl,V,Zn
CCB05	CCB05	1	1902	Ag,Al,As,B,Ba,Be,Cd,Co,Cr,Cu,Fe,Mn,Mo,Ni,Pb,Sb,Se,Tl,V,Zn
Q3341-01	C-1	1	1915	Ag,Al,As,B,Ba,Be,Cd,Co,Cr,Cu,Fe,Mn,Mo,Ni,Pb,Sb,Se,Tl,V,Zn
Q3341-02	C-2	1	1919	Ag,Al,As,B,Ba,Be,Cd,Co,Cr,Cu,Fe,Mn,Mo,Ni,Pb,Sb,Se,Tl,V,Zn
Q3341-03	C-3	1	1923	Ag,Al,As,B,Ba,Be,Cd,Co,Cr,Cu,Fe,Mn,Mo,Ni,Pb,Sb,Se,Tl,V,Zn
CCV06	CCV06	1	1944	Ag,Al,As,B,Ba,Be,Cd,Co,Cr,Cu,Fe,Mn,Mo,Ni,Pb,Sb,Se,Tl,V,Zn
CCB06	CCB06	1	1948	Ag,Al,As,B,Ba,Be,Cd,Co,Cr,Cu,Fe,Mn,Mo,Ni,Pb,Sb,Se,Tl,V,Zn

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ANALYSIS RUN LOG

Client: Kleinfelder **Contract:** POWE02

Lab code: ACE **Sdg no.:** Q3341

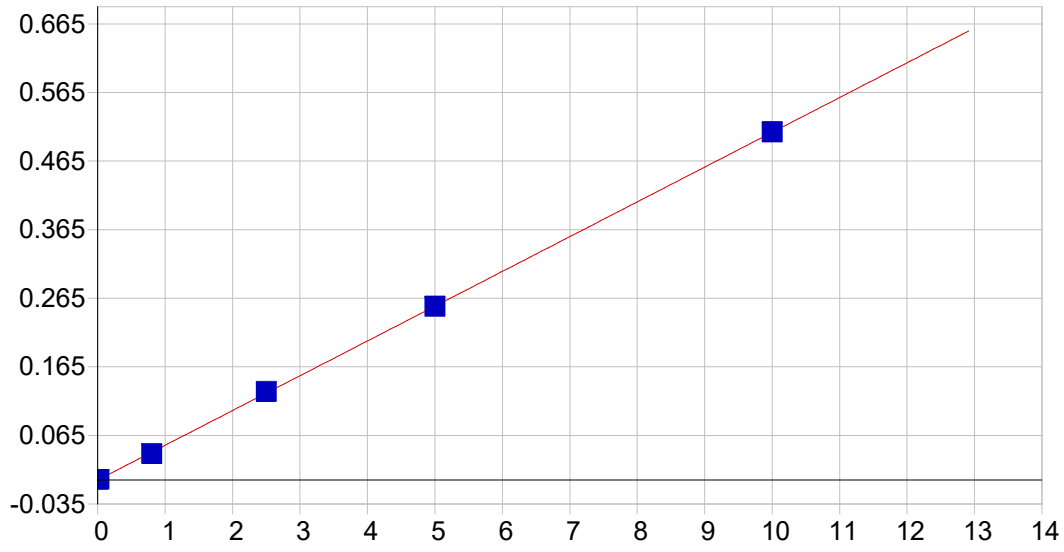
Instrument id number: **Method:** **Run number:** LB137573

Start date: 10/16/2025 **End date:** 10/16/2025

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1108	Ag,Al,As,B,Ba,Be,Cd,Co,Cr,Cu,Fe,Mn,Mo,Ni,Pb,Sb,Se,Tl,V,Zn
S1	S1	1	1113	Ag,Al,As,B,Ba,Be,Cd,Co,Cr,Cu,Fe,Mn,Mo,Ni,Pb,Sb,Se,Tl,V,Zn
S2	S2	1	1117	Ag,Al,As,B,Ba,Be,Cd,Co,Cr,Cu,Fe,Mn,Mo,Ni,Pb,Sb,Se,Tl,V,Zn
S3	S3	1	1122	Ag,Al,As,B,Ba,Be,Cd,Co,Cr,Cu,Fe,Mn,Mo,Ni,Pb,Sb,Se,Tl,V,Zn
S4	S4	1	1125	Ag,Al,As,B,Ba,Be,Cd,Co,Cr,Cu,Fe,Mn,Mo,Ni,Pb,Sb,Se,Tl,V,Zn
S5	S5	1	1130	Ag,Al,As,B,Ba,Be,Cd,Co,Cr,Cu,Fe,Mn,Mo,Ni,Pb,Sb,Se,Tl,V,Zn
ICV01	ICV01	1	1134	Ag,Al,As,B,Ba,Be,Cd,Co,Cr,Cu,Fe,Mn,Mo,Ni,Pb,Sb,Se,Tl,V,Zn
LLICV01	LLICV01	1	1158	Ag,Al,As,B,Ba,Be,Cd,Co,Cr,Cu,Fe,Mn,Mo,Ni,Pb,Sb,Se,Tl,V,Zn
ICB01	ICB01	1	1202	Ag,Al,As,B,Ba,Be,Cd,Co,Cr,Cu,Fe,Mn,Mo,Ni,Pb,Sb,Se,Tl,V,Zn
CRI01	CRI01	1	1209	Ag,Al,As,B,Ba,Be,Cd,Co,Cr,Cu,Fe,Mn,Mo,Ni,Pb,Sb,Se,Tl,V,Zn
ICSA01	ICSA01	1	1217	Ag,Al,As,B,Ba,Be,Cd,Co,Cr,Cu,Fe,Mn,Mo,Ni,Pb,Sb,Se,Tl,V,Zn
ICSAB01	ICSAB01	1	1221	Ag,Al,As,B,Ba,Be,Cd,Co,Cr,Cu,Fe,Mn,Mo,Ni,Pb,Sb,Se,Tl,V,Zn
CCV01	CCV01	1	1238	Ag,Al,As,B,Ba,Be,Cd,Co,Cr,Cu,Fe,Mn,Mo,Ni,Pb,Sb,Se,Tl,V,Zn
CCB01	CCB01	1	1242	Ag,Al,As,B,Ba,Be,Cd,Co,Cr,Cu,Fe,Mn,Mo,Ni,Pb,Sb,Se,Tl,V,Zn
CCV02	CCV02	1	1345	Ag,Al,As,B,Ba,Be,Cd,Co,Cr,Cu,Fe,Mn,Mo,Ni,Pb,Sb,Se,Tl,V,Zn
CCB02	CCB02	1	1349	Ag,Al,As,B,Ba,Be,Cd,Co,Cr,Cu,Fe,Mn,Mo,Ni,Pb,Sb,Se,Tl,V,Zn
CCV03	CCV03	1	1445	Ag,Al,As,B,Ba,Be,Cd,Co,Cr,Cu,Fe,Mn,Mo,Ni,Pb,Sb,Se,Tl,V,Zn
CCB03	CCB03	1	1449	Ag,Al,As,B,Ba,Be,Cd,Co,Cr,Cu,Fe,Mn,Mo,Ni,Pb,Sb,Se,Tl,V,Zn
PB170107BL	PB170107BL	1	1455	Ag,Al,As,B,Ba,Be,Cd,Co,Cr,Cu,Fe,Mn,Mo,Ni,Pb,Sb,Se,Tl,V,Zn
PB170107BS	PB170107BS	1	1459	Ag,Al,As,B,Ba,Be,Cd,Co,Cr,Cu,Fe,Mn,Mo,Ni,Pb,Sb,Se,Tl,V,Zn
CCV04	CCV04	1	1538	Ag,Al,As,B,Ba,Be,Cd,Co,Cr,Cu,Fe,Mn,Mo,Ni,Pb,Sb,Se,Tl,V,Zn
CCB04	CCB04	1	1543	Ag,Al,As,B,Ba,Be,Cd,Co,Cr,Cu,Fe,Mn,Mo,Ni,Pb,Sb,Se,Tl,V,Zn
CCV05	CCV05	1	1631	Ag,Al,As,B,Ba,Be,Cd,Co,Cr,Cu,Fe,Mn,Mo,Ni,Pb,Sb,Se,Tl,V,Zn
CCB05	CCB05	1	1635	Ag,Al,As,B,Ba,Be,Cd,Co,Cr,Cu,Fe,Mn,Mo,Ni,Pb,Sb,Se,Tl,V,Zn
CCV06	CCV06	1	1749	Ag,Al,As,B,Ba,Be,Cd,Co,Cr,Cu,Fe,Mn,Mo,Ni,Pb,Sb,Se,Tl,V,Zn
CCB06	CCB06	1	1753	Ag,Al,As,B,Ba,Be,Cd,Co,Cr,Cu,Fe,Mn,Mo,Ni,Pb,Sb,Se,Tl,V,Zn
CCV07	CCV07	1	1842	Ag,Al,As,B,Ba,Be,Cd,Co,Cr,Cu,Fe,Mn,Mo,Ni,Pb,Sb,Se,Tl,V,Zn
CCB07	CCB07	1	1846	Ag,Al,As,B,Ba,Be,Cd,Co,Cr,Cu,Fe,Mn,Mo,Ni,Pb,Sb,Se,Tl,V,Zn
CCV08	CCV08	1	1933	Ag,Al,As,B,Ba,Be,Cd,Co,Cr,Cu,Fe,Mn,Mo,Ni,Pb,Sb,Se,Tl,V,Zn
CCB08	CCB08	1	1937	Ag,Al,As,B,Ba,Be,Cd,Co,Cr,Cu,Fe,Mn,Mo,Ni,Pb,Sb,Se,Tl,V,Zn
CCV09	CCV09	1	2007	Ag,Al,As,B,Ba,Be,Cd,Co,Cr,Cu,Fe,Mn,Mo,Ni,Pb,Sb,Se,Tl,V,Zn
CCB09	CCB09	1	2011	Ag,Al,As,B,Ba,Be,Cd,Co,Cr,Cu,Fe,Mn,Mo,Ni,Pb,Sb,Se,Tl,V,Zn

METAL
RAW DATA

Reviewed By:jaswal
On:10/17/2025 1:18:42 PM
Inst Id :P4
LB :LB137561



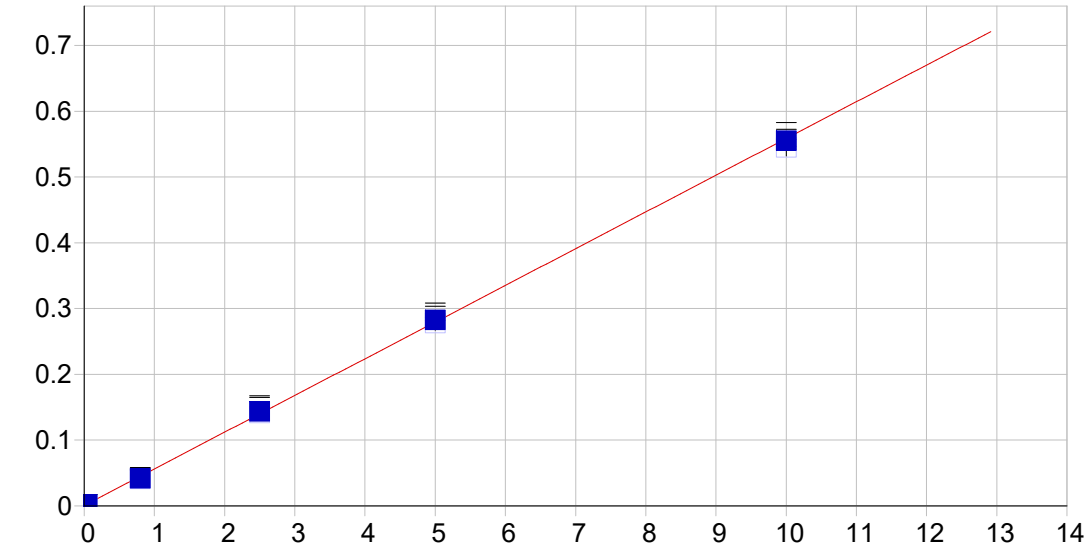
As 189.042 {479}

Date of Fit:	10/15/2025 14:39:15	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000146	Re-Slope:	1.000000
A1 (Gain):	0.050702	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999890	Status:	OK.
Std Error of Est:	0.000018		
Predicted MDL:	0.002233		
Predicted MQL:	0.007443		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00015	.000	1
S1	.02000	.02317	.003	15.8	.00102	.000	1
S3	2.5000	2.5444	.044	1.78	.12873	.000	1
S4	5.0000	4.9921	-.008	-.157	.25270	.001	1
S5	10.000	10.007	.007	.068	.50669	.000	1
S2	.80000	.75348	-.047	-5.81	.03801	.000	1

Reviewed By:jaswal
On:10/17/2025 1:18:42 PM
Inst Id :P4
LB :LB137561



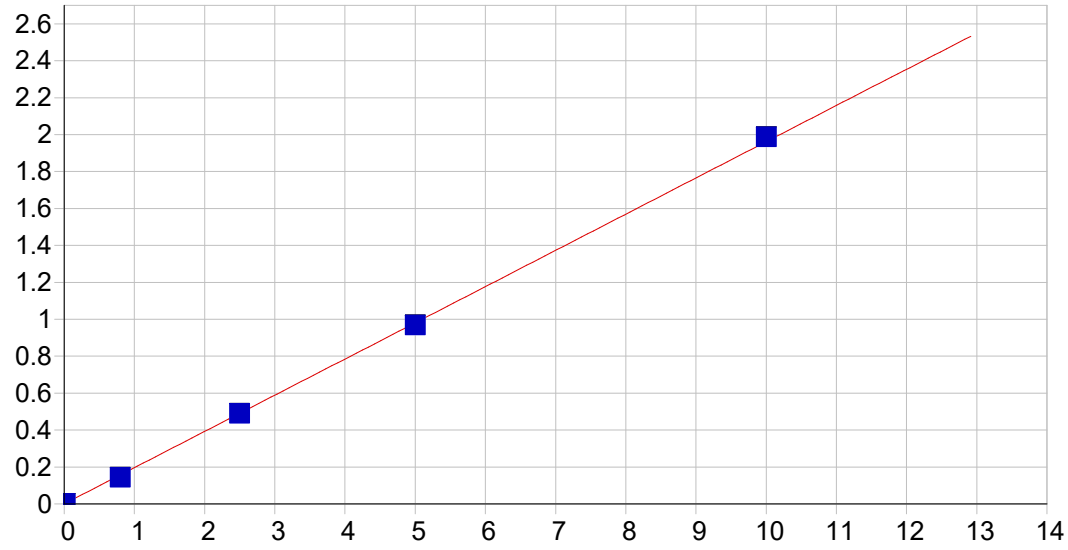
Tl 190.856 {477}

Date of Fit:	10/15/2025 14:39:15	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000452	Re-Slope:	1.000000
A1 (Gain):	0.055814	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999792	Status:	OK.
Std Error of Est:	0.000037		
Predicted MDL:	0.002686		
Predicted MQL:	0.008954		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00045	.000	1
S1	.04000	.04106	.001	2.66	.00260	.000	1
S3	2.5000	2.5657	.066	2.63	.14111	.009	1
S4	5.0000	5.0583	.058	1.17	.27768	.011	1
S5	10.000	9.9350	-.065	-.650	.54478	.013	1
S2	.80000	.74003	-.060	-7.50	.04094	.001	1

Reviewed By:jaswal
On:10/17/2025 1:18:42 PM
Inst Id :P4
LB :LB137561



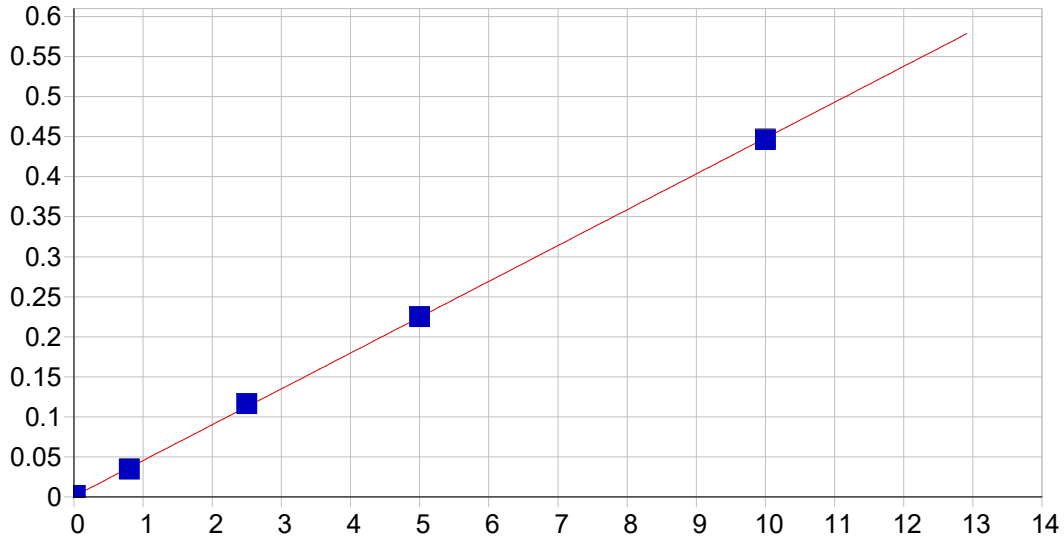
Pb 220.353 {453}

Date of Fit:	10/15/2025 14:39:15	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000163	Re-Slope:	1.000000
A1 (Gain):	0.196123	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999775	Status:	OK.
Std Error of Est:	0.000075		
Predicted MDL:	0.001273		
Predicted MQL:	0.004245		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00016	.000	1
S1	.01200	.01173	-.000	-2.22	.00242	.000	1
S3	2.5000	2.4962	-.004	-.150	.48919	.002	1
S4	5.0000	4.9361	-.064	-1.28	.96715	.001	1
S5	10.000	10.135	.135	1.35	1.9856	.001	1
S2	.80000	.73317	-.067	-8.35	.14378	.000	1

Reviewed By:jaswal
On:10/17/2025 1:18:42 PM
Inst Id :P4
LB :LB137561



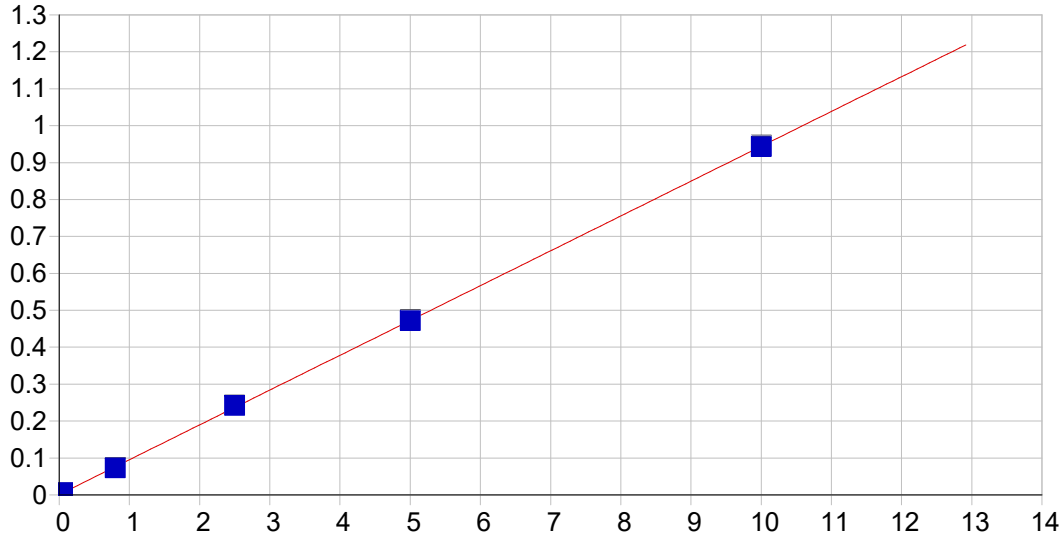
Se 196.090 {472}

Date of Fit:	10/15/2025 14:39:15	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000672	Re-Slope:	1.000000
A1 (Gain):	0.044758	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999852	Status:	OK.
Std Error of Est:	0.000018		
Predicted MDL:	0.003112		
Predicted MQL:	0.010374		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00067	.000	1
S1	.02000	.01714	-.003	-14.3	.00144	.000	1
S3	2.5000	2.5795	.080	3.18	.11609	.001	1
S4	5.0000	5.0097	.010	.194	.22483	.000	1
S5	10.000	9.9564	-.044	-.436	.44617	.001	1
S2	.80000	.75726	-.043	-5.34	.03456	.000	1

Reviewed By:jaswal
On:10/17/2025 1:18:42 PM
Inst Id :P4
LB :LB137561



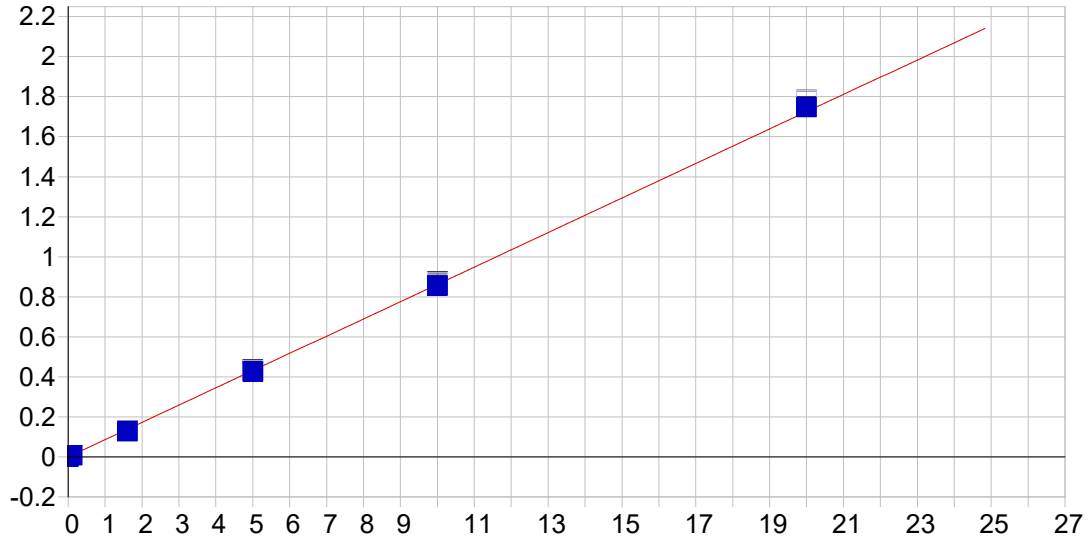
Sb 206.833 {463}

Date of Fit:	10/15/2025 14:39:15	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000927	Re-Slope:	1.000000
A1 (Gain):	0.094312	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999913	Status:	OK.
Std Error of Est:	0.000046		
Predicted MDL:	0.001882		
Predicted MQL:	0.006273		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00093	.000	1
S1	.05000	.05037	.000	.741	.00569	.000	1
S3	2.5000	2.5569	.057	2.28	.24271	.000	1
S4	5.0000	4.9923	-.008	-.155	.47304	.001	1
S5	10.000	9.9894	-.011	-.106	.94561	.002	1
S2	.80000	.76107	-.039	-4.87	.07291	.000	1

Reviewed By:jaswal
On:10/17/2025 1:18:42 PM
Inst Id :P4
LB :LB137561



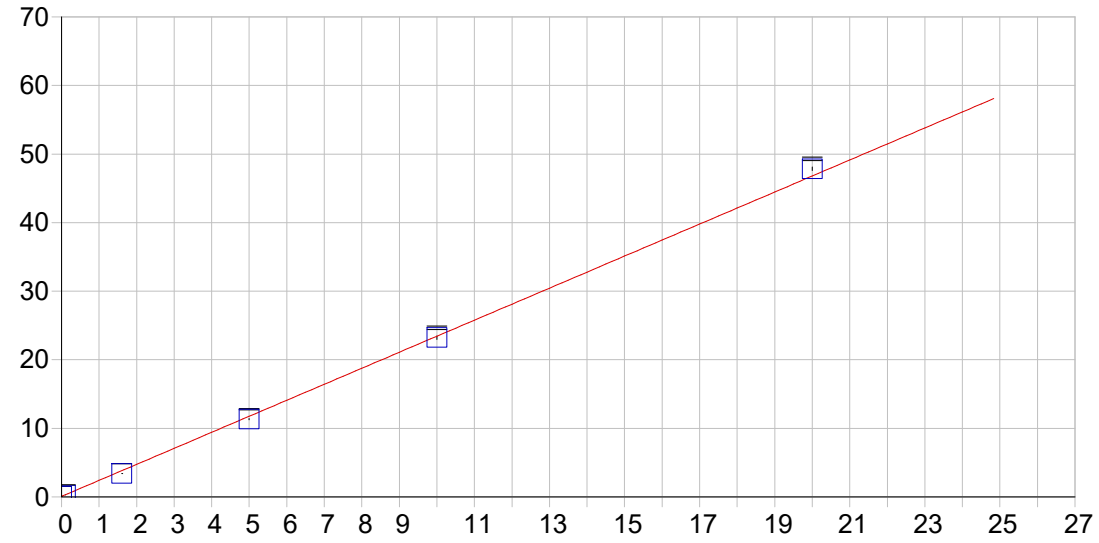
Al 396.152 { 85}

Date of Fit:	10/15/2025 14:39:15	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000212	Re-Slope:	1.000000
A1 (Gain):	0.086254	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999816	Status:	OK.
Std Error of Est:	0.000125		
Predicted MDL:	0.011875		
Predicted MQL:	0.039584		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00001	.000	.000	-.00021	.000	1
S1	.10000	.09729	-.003	-2.71	.00885	.001	1
S3	5.0000	4.9251	-.075	-1.50	.43297	.004	1
S4	10.000	9.9229	-.077	-.771	.87242	.003	1
S5	20.000	20.272	.272	1.36	1.7818	.002	1
S2	1.6000	1.4830	-.117	-7.31	.13038	.001	1

Reviewed By:jaswal
On:10/17/2025 1:18:42 PM
Inst Id :P4
LB :LB137561



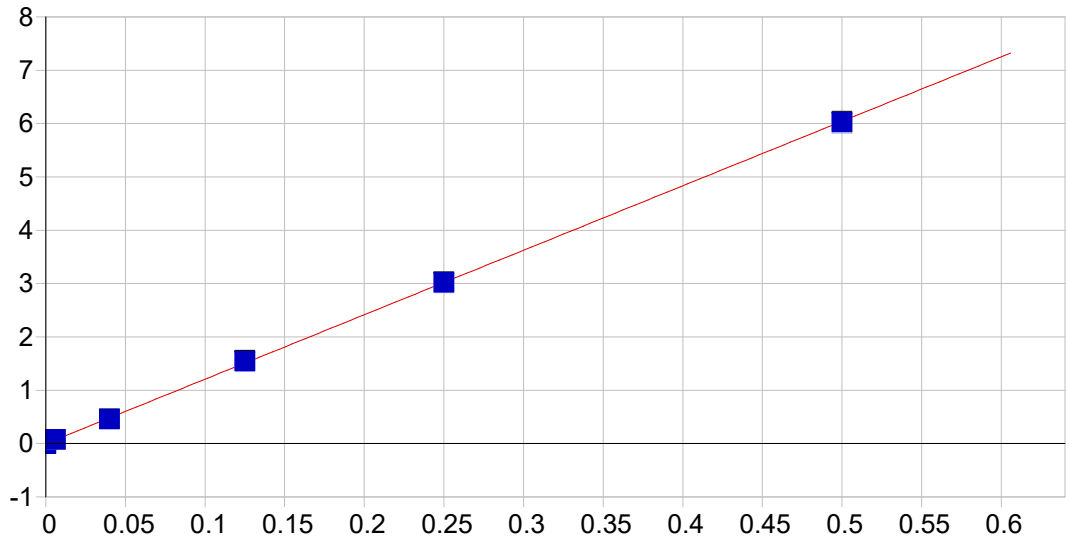
Ba 493.409 { 68}

Date of Fit:	10/15/2025 14:39:15	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.075580	Re-Slope:	1.000000
A1 (Gain):	2.336201	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999507	Status:	OK.
Std Error of Est:	0.005439		
Predicted MDL:	0.001246		
Predicted MQL:	0.004153		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00002	.000	.000	.07562	.002	1
S1	.10000	.09737	-.003	-2.63	.30306	.004	1
S3	5.0000	4.8142	-.186	-3.72	11.322	.092	1
S4	10.000	9.9119	-.088	-.881	23.232	.256	1
S5	20.000	20.448	.448	2.24	47.846	.244	1
S2	1.6000	1.4285	-.172	-10.7	3.4128	.017	1

Reviewed By:jaswal
On:10/17/2025 1:18:42 PM
Inst Id :P4
LB :LB137561



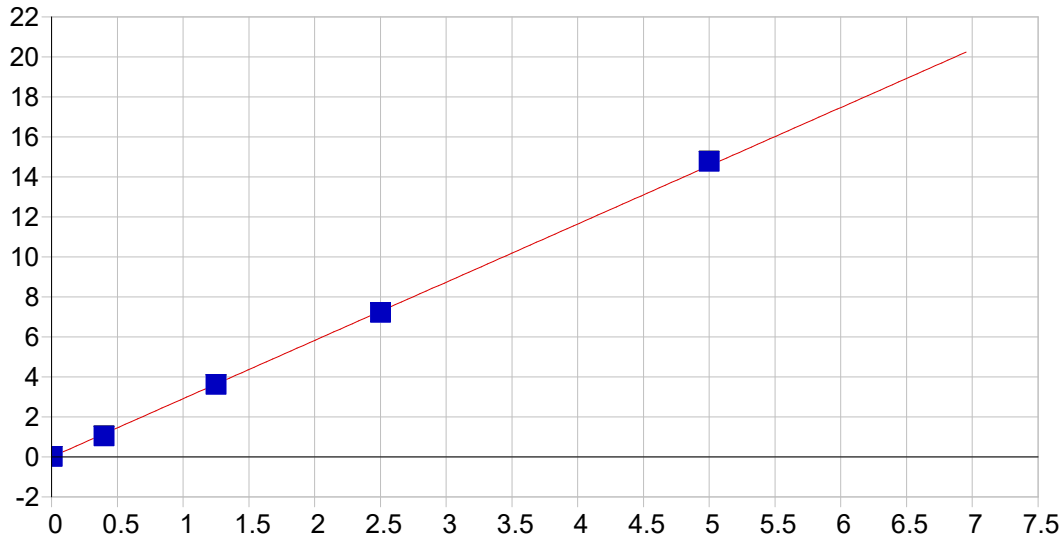
Be 234.861 {144}

Date of Fit:	10/15/2025 14:39:15	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.002434	Re-Slope:	1.000000
A1 (Gain):	12.090721	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999908	Status:	OK.
Std Error of Est:	0.000469		
Predicted MDL:	0.000055		
Predicted MQL:	0.000182		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00243	.000	1
S1	.00600	.00619	.000	3.23	.07191	.001	1
S3	.12500	.12792	.003	2.34	1.5374	.015	1
S4	.25000	.25017	.000	.070	3.0088	.007	1
S5	.50000	.49860	-.001	-.280	5.9989	.019	1
S2	.04000	.03811	-.002	-4.72	.45620	.003	1

Reviewed By:jaswal
On:10/17/2025 1:18:42 PM
Inst Id :P4
LB :LB137561



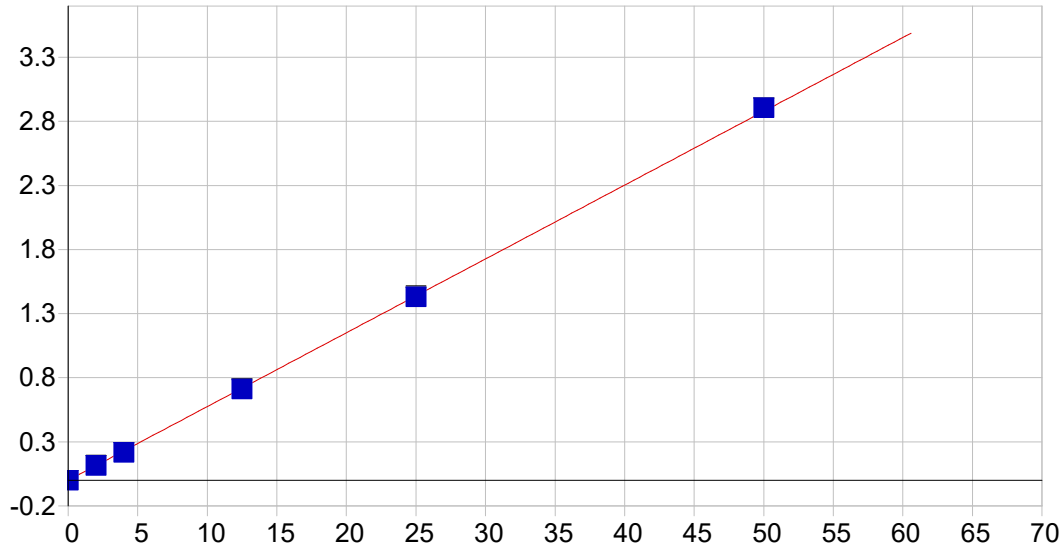
Cd 226.502 {449}

Date of Fit:	10/15/2025 14:39:15	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000319	Re-Slope:	1.000000
A1 (Gain):	2.911644	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999694	Status:	OK.
Std Error of Est:	0.000654		
Predicted MDL:	0.000073		
Predicted MQL:	0.000243		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	-.00032	.000	1
S1	.00600	.00562	-.000	-6.38	.01609	.000	1
S3	1.2500	1.2397	-.010	-.823	3.6117	.012	1
S4	2.5000	2.4778	-.022	-.886	7.2191	.003	1
S5	5.0000	5.0739	.074	1.48	14.783	.006	1
S2	.40000	.35896	-.041	-10.3	1.0456	.001	1

Reviewed By:jaswal
On:10/17/2025 1:18:42 PM
Inst Id :P4
LB :LB137561



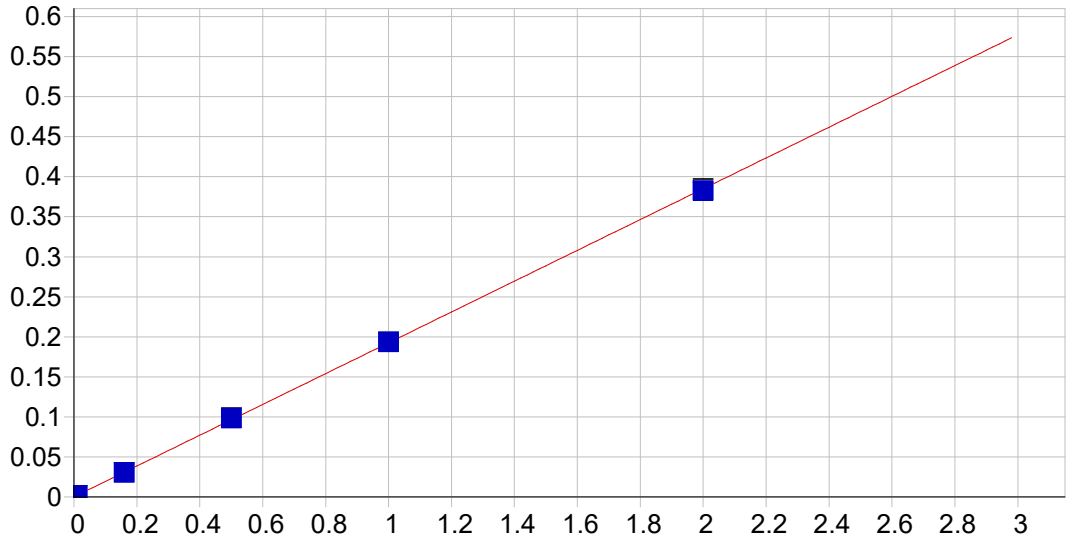
Ca 373.690 { 90}

Date of Fit:	10/15/2025 14:39:15	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000691	Re-Slope:	1.000000
A1 (Gain):	0.057589	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999902	Status:	OK.
Std Error of Est:	0.000427		
Predicted MDL:	0.014029		
Predicted MQL:	0.046765		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00011	.000	.000	-.00068	.000	1
S2	4.0000	3.7828	-.217	-5.43	.21716	.001	1
S3	12.500	12.374	-.126	-1.01	.71189	.006	1
S4	25.000	24.860	-.140	-.562	1.4309	.006	1
S5	50.000	50.471	.471	.941	2.9058	.003	1
S1	2.0000	2.0136	.014	.679	.11527	.001	1

Reviewed By:jaswal
On:10/17/2025 1:18:42 PM
Inst Id :P4
LB :LB137561



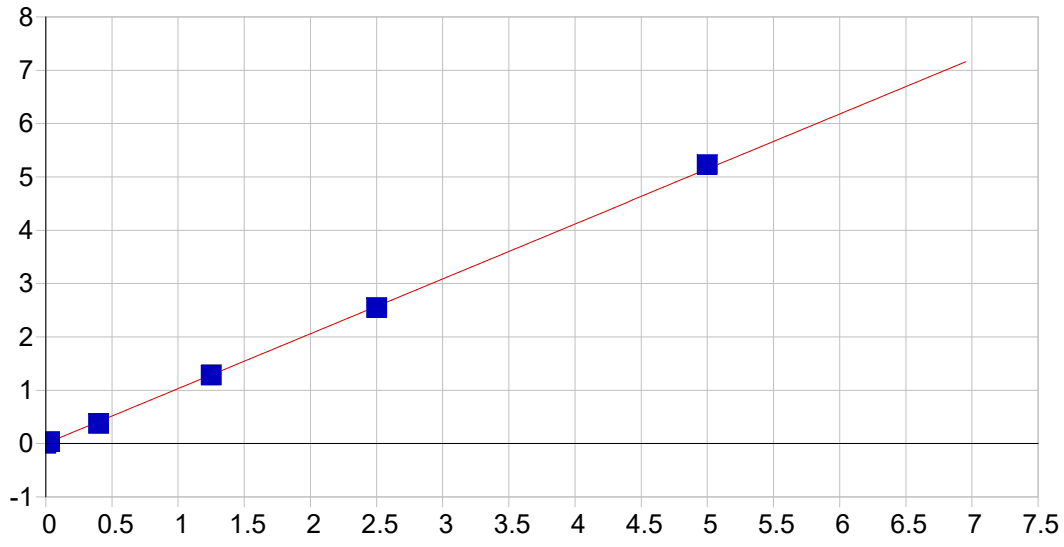
Cr 267.716 {126}

Date of Fit:	10/15/2025 14:39:15	Type of Fit:	Linear
Weighting:	1/Conc		

A0 (Offset):	0.000126	Re-Slope:	1.000000
A1 (Gain):	0.192392	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999948	Status:	OK.
Std Error of Est:	0.000015		
Predicted MDL:	0.000351		
Predicted MQL:	0.001171		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00013	.000	1
S1	.01000	.01004	.000	.442	.00206	.000	1
S3	.50000	.51033	.010	2.07	.09839	.000	1
S4	1.0000	1.0055	.006	.553	.19374	.000	1
S5	2.0000	1.9869	-.013	-.655	.38270	.002	1
S2	.16000	.15720	-.003	-1.75	.03039	.000	1

Reviewed By:jaswal
On:10/17/2025 1:18:42 PM
Inst Id :P4
LB :LB137561



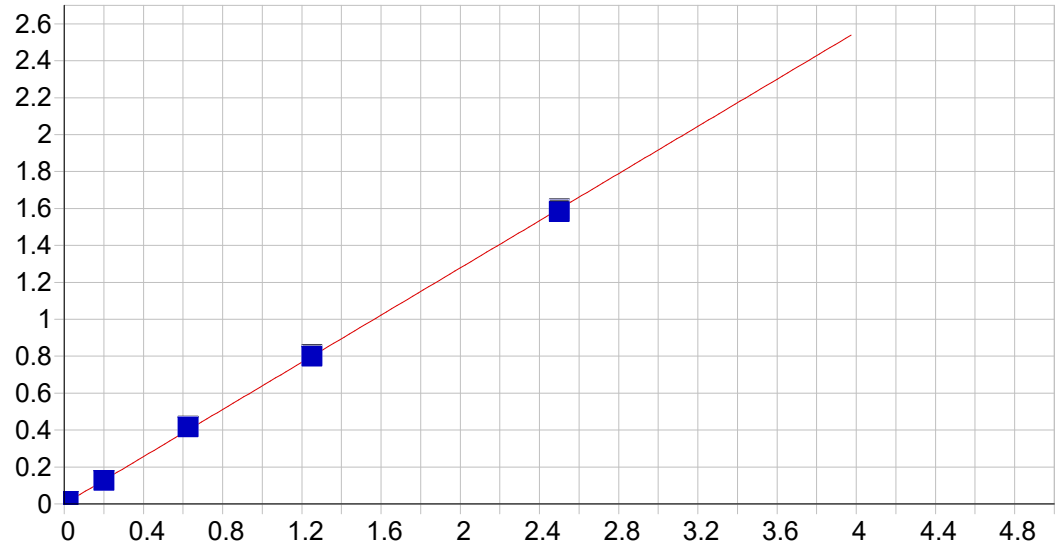
Co 228.616 {448}

Date of Fit:	10/15/2025 14:39:15	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000091	Re-Slope:	1.000000
A1 (Gain):	1.029682	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999727	Status:	OK.
Std Error of Est:	0.000490		
Predicted MDL:	0.000183		
Predicted MQL:	0.000610		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00010	.000	1
S1	.03000	.02881	-.001	-3.96	.02963	.000	1
S3	1.2500	1.2438	-.006	-.494	1.2830	.004	1
S4	2.5000	2.4702	-.030	-1.19	2.5480	.002	1
S5	5.0000	5.0745	.075	1.49	5.2340	.002	1
S2	.40000	.36264	-.037	-9.34	.37419	.000	1

Reviewed By:jaswal
On:10/17/2025 1:18:42 PM
Inst Id :P4
LB :LB137561



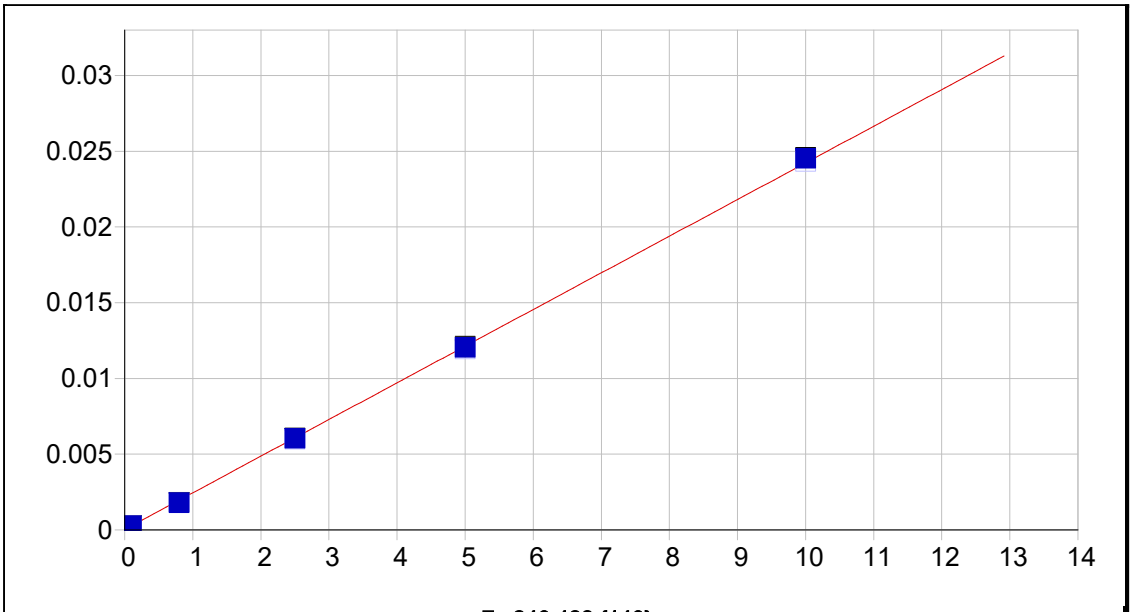
Cu 224.700 {450}

Date of Fit:	10/15/2025 14:39:15	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000555	Re-Slope:	1.000000
A1 (Gain):	0.638795	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999838	Status:	OK.
Std Error of Est:	0.000136		
Predicted MDL:	0.000420		
Predicted MQL:	0.001400		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00055	.000	1
S1	.02000	.02175	.002	8.74	.01459	.000	1
S3	.62500	.65070	.026	4.11	.41954	.001	1
S4	1.2500	1.2502	.000	.013	.80580	.003	1
S5	2.5000	2.4763	-.024	-.949	1.5957	.002	1
S2	.20000	.19612	-.004	-1.94	.12690	.000	1

Reviewed By:jaswal
On:10/17/2025 1:18:42 PM
Inst Id :P4
LB :LB137561



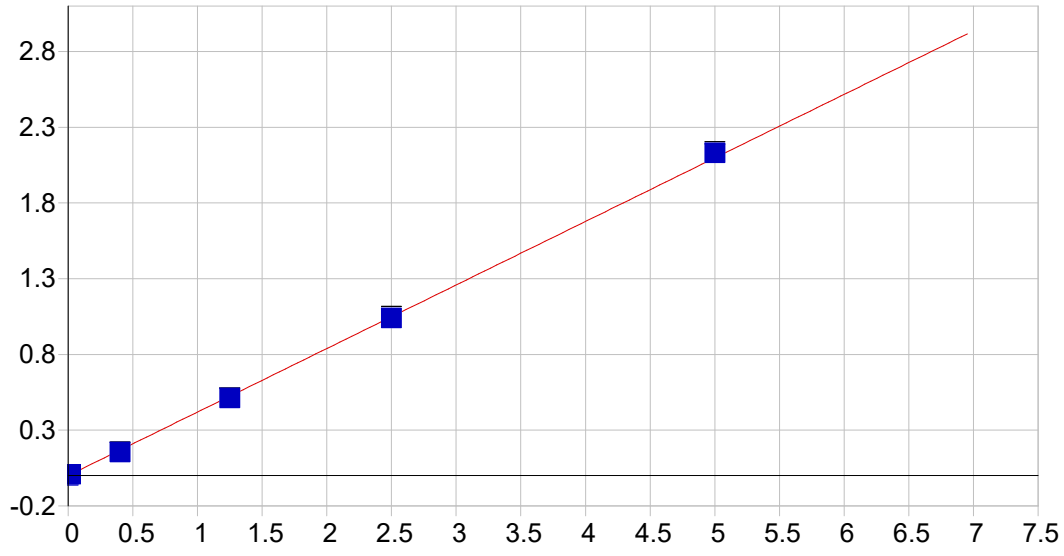
Fe 240.488 {140}

Date of Fit:	10/15/2025 14:39:15	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000027	Re-Slope:	1.000000
A1 (Gain):	0.002420	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999769	Status:	OK.
Std Error of Est:	0.000003		
Predicted MDL:	0.008746		
Predicted MQL:	0.029152		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00003	.000	1
S1	.10000	.10506	.005	5.06	.00028	.000	1
S3	2.5000	2.4819	-.018	-.722	.00598	.000	1
S4	5.0000	4.9624	-.038	-.752	.01193	.000	1
S5	10.000	10.121	.121	1.21	.02432	.000	1
S2	.80000	.72944	-.071	-8.82	.00178	.000	1

Reviewed By:jaswal
On:10/17/2025 1:18:42 PM
Inst Id :P4
LB :LB137561



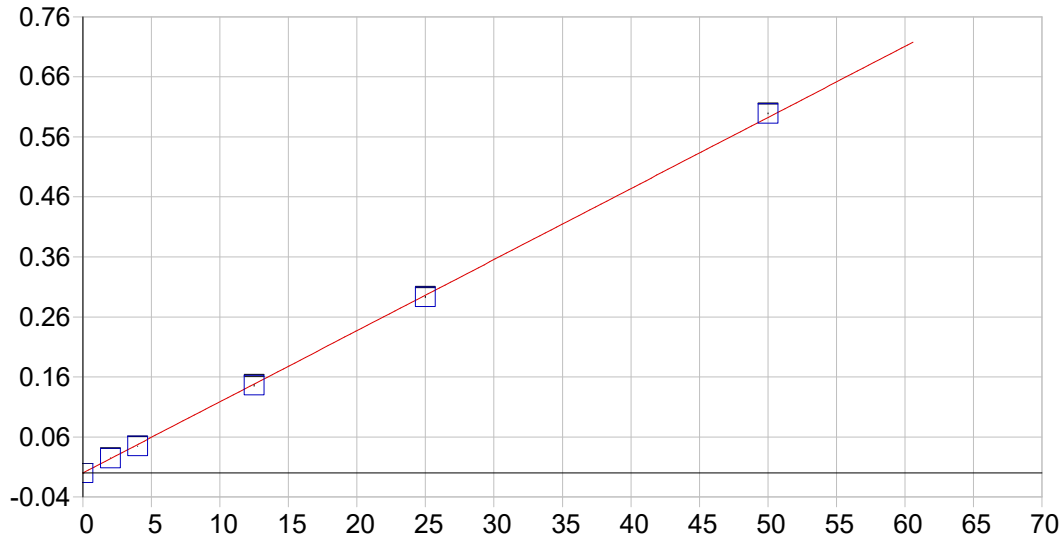
Mn 257.610 {131}

Date of Fit:	10/15/2025 14:39:15	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000161	Re-Slope:	1.000000
A1 (Gain):	0.419454	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999760	Status:	OK.
Std Error of Est:	0.000153		
Predicted MDL:	0.000706		
Predicted MQL:	0.002354		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00016	.000	1
S1	.02000	.02095	.001	4.76	.00895	.000	1
S3	1.2500	1.2205	-.029	-2.36	.51221	.004	1
S4	2.5000	2.4802	-.020	-.790	1.0407	.011	1
S5	5.0000	5.0785	.079	1.57	2.1308	.008	1
S2	.40000	.36978	-.030	-7.55	.15530	.001	1

Reviewed By:jaswal
On:10/17/2025 1:18:42 PM
Inst Id :P4
LB :LB137561



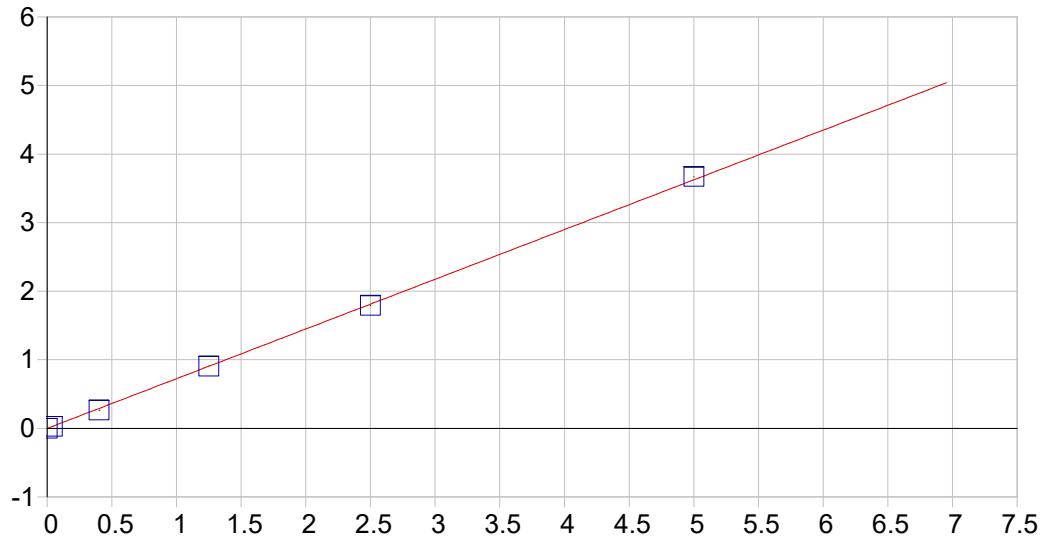
Mg 279.079 {121}

Date of Fit:	10/15/2025 14:39:15	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000062	Re-Slope:	1.000000
A1 (Gain):	0.011846	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999840	Status:	OK.
Std Error of Est:	0.000112		
Predicted MDL:	0.031997		
Predicted MQL:	0.106658		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00006	.000	.000	.00006	.000	1
S2	4.0000	3.7552	-.245	-6.12	.04455	.000	1
S3	12.500	12.328	-.172	-1.38	.14610	.002	1
S4	25.000	24.761	-.239	-.955	.29339	.001	1
S5	50.000	50.568	.568	1.14	.59911	.001	1
S1	2.0000	2.0879	.088	4.40	.02480	.000	1

Reviewed By:jaswal
On:10/17/2025 1:18:42 PM
Inst Id :P4
LB :LB137561



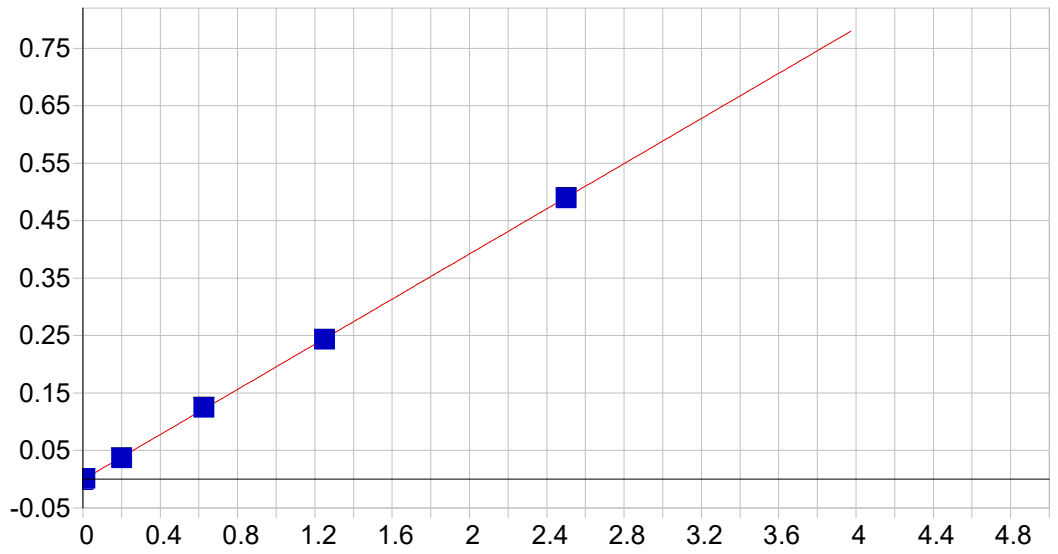
Ni 231.604 {446}

Date of Fit:	10/15/2025 14:39:15	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000707	Re-Slope:	1.000000
A1 (Gain):	0.724896	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999781	Status:	OK.
Std Error of Est:	0.000356		
Predicted MDL:	0.000293		
Predicted MQL:	0.000977		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	-.00070	.000	1
S1	.04000	.03893	-.001	-2.66	.02752	.000	1
S3	1.2500	1.2498	-.000	-.015	.90527	.003	1
S4	2.5000	2.4730	-.027	-1.08	1.7920	.002	1
S5	5.0000	5.0624	.062	1.25	3.6690	.001	1
S2	.40000	.36578	-.034	-8.56	.26444	.000	1

Reviewed By:jaswal
On:10/17/2025 1:18:42 PM
Inst Id :P4
LB :LB137561



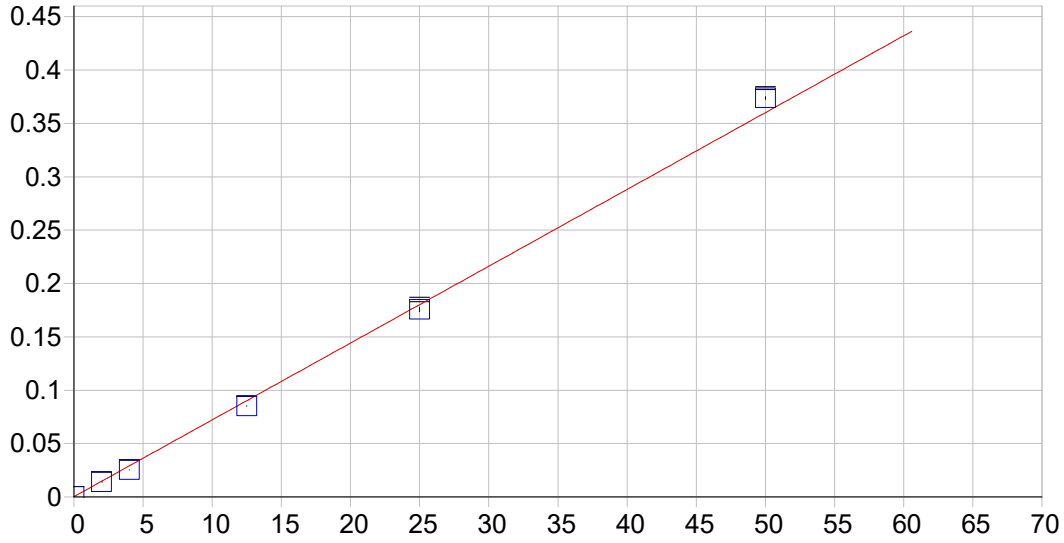
Ag 328.068 {103}

Date of Fit:	10/15/2025 14:39:15	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000958	Re-Slope:	1.000000
A1 (Gain):	0.196490	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999931	Status:	OK.
Std Error of Est:	0.000019		
Predicted MDL:	0.000546		
Predicted MQL:	0.001819		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00096	.000	1
S1	.01000	.01031	.000	3.15	.00106	.000	1
S3	.62500	.64060	.016	2.50	.12442	.000	1
S4	1.2500	1.2432	-.007	-.543	.24233	.000	1
S5	2.5000	2.4970	-.003	-.121	.48768	.000	1
S2	.20000	.19390	-.006	-3.05	.03698	.000	1

Reviewed By:jaswal
On:10/17/2025 1:18:42 PM
Inst Id :P4
LB :LB137561



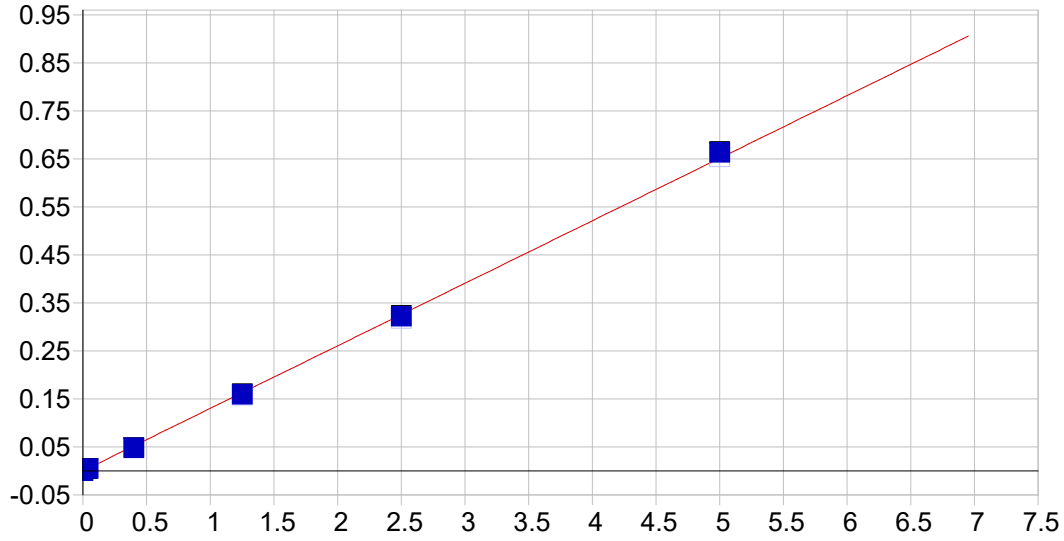
Na 589.592 { 57}

Date of Fit:	10/15/2025 14:39:15	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000280	Re-Slope:	1.000000
A1 (Gain):	0.007197	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.998957	Status:	OK.
Std Error of Est:	0.000174		
Predicted MDL:	0.020567		
Predicted MQL:	0.068557		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00041	.000	.000	.00028	.000	1
S2	4.0000	3.4837	-.516	-12.9	.02535	.000	1
S3	12.500	11.805	-.695	-5.56	.08524	.000	1
S4	25.000	24.380	-.620	-2.48	.17574	.002	1
S5	50.000	51.900	1.90	3.80	.37379	.001	1
S1	2.0000	1.9318	-.068	-3.41	.01418	.000	1

Reviewed By:jaswal
On:10/17/2025 1:18:42 PM
Inst Id :P4
LB :LB137561



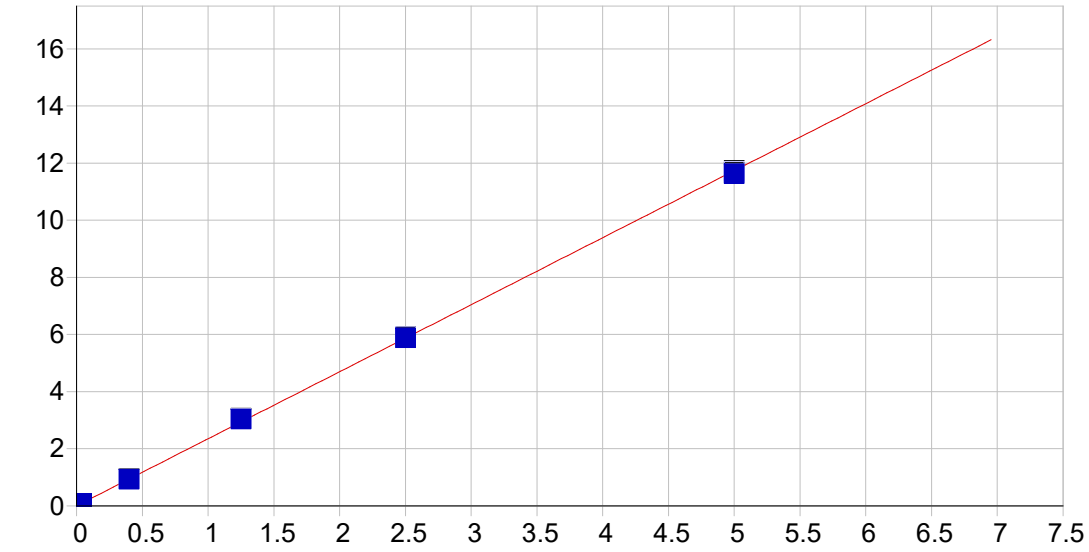
V 292.402 {115}

Date of Fit:	10/15/2025 14:39:15	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000002	Re-Slope:	1.000000
A1 (Gain):	0.130302	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999673	Status:	OK.
Std Error of Est:	0.000077		
Predicted MDL:	0.003418		
Predicted MQL:	0.011394		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00001	.000	.000	-.00000	.000	1
S1	.04000	.03421	-.006	-14.5	.00426	.000	1
S3	1.2500	1.2231	-.027	-2.15	.15700	.002	1
S4	2.5000	2.4710	-.029	-1.16	.31722	.002	1
S5	5.0000	5.0923	.092	1.85	.65404	.002	1
S2	.40000	.36918	-.031	-7.70	.04734	.001	1

Reviewed By:jaswal
On:10/17/2025 1:18:42 PM
Inst Id :P4
LB :LB137561



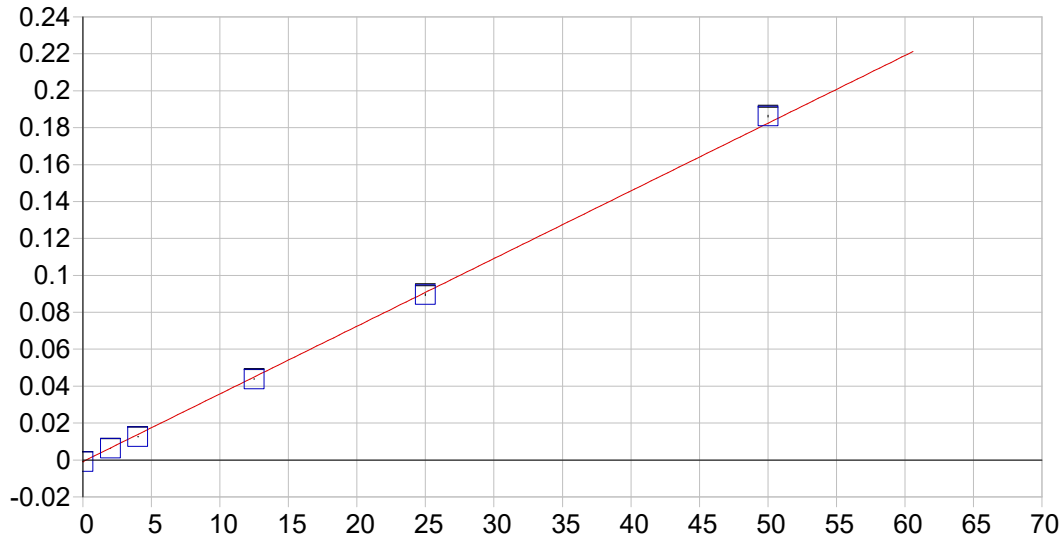
Zn 213.856 {158}

Date of Fit:	10/15/2025 14:39:15	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.004523	Re-Slope:	1.000000
A1 (Gain):	2.346492	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999888	Status:	OK.
Std Error of Est:	0.000831		
Predicted MDL:	0.000246		
Predicted MQL:	0.000819		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00452	.001	1
S1	.04000	.04209	.002	5.22	.10394	.000	1
S3	1.2500	1.2935	.043	3.48	3.0601	.010	1
S4	2.5000	2.5045	.004	.180	5.9221	.009	1
S5	5.0000	4.9538	-.046	-.925	11.710	.034	1
S2	.40000	.39617	-.004	-.957	.94067	.002	1

Reviewed By:jaswal
On:10/17/2025 1:18:42 PM
Inst Id :P4
LB :LB137561



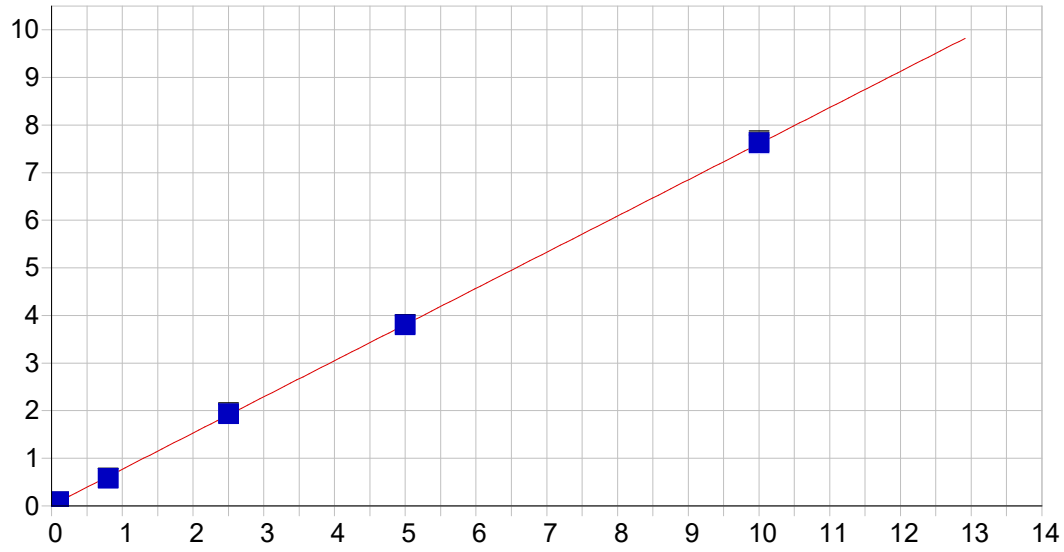
K 766.490 { 44}

Date of Fit:	10/15/2025 14:39:15	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000861	Re-Slope:	1.000000
A1 (Gain):	0.003666	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999655	Status:	OK.
Std Error of Est:	0.000051		
Predicted MDL:	0.048786		
Predicted MQL:	0.162621		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00026	.000	.000	-.00086	.000	1
S2	4.0000	3.6623	-.338	-8.44	.01256	.000	1
S3	12.500	12.187	-.313	-2.50	.04381	.000	1
S4	25.000	24.651	-.349	-1.40	.08950	.000	1
S5	50.000	51.050	1.05	2.10	.18627	.001	1
S1	2.0000	1.9496	-.050	-2.52	.00629	.000	1

Reviewed By:jaswal
On:10/17/2025 1:18:42 PM
Inst Id :P4
LB :LB137561



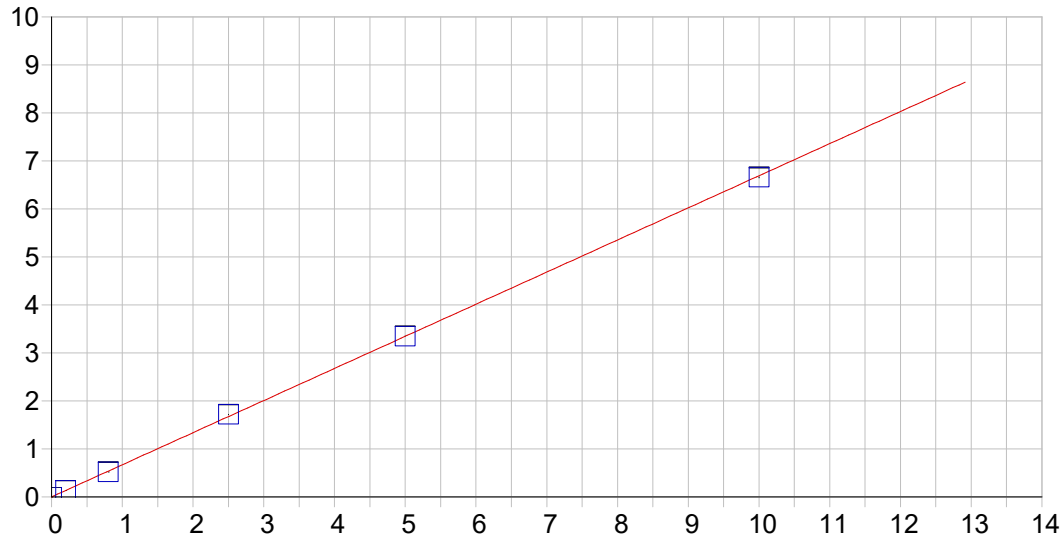
B 249.678 {135}

Date of Fit:	10/15/2025 14:39:15	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.011703	Re-Slope:	1.000000
A1 (Gain):	0.759696	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999891	Status:	OK.
Std Error of Est:	0.000588		
Predicted MDL:	0.000843		
Predicted MQL:	0.002810		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00001	.000	.000	.01171	.000	1
S1	.10000	.09623	-.004	-3.77	.08436	.000	1
S3	2.5000	2.5348	.035	1.39	1.9305	.021	1
S4	5.0000	4.9890	-.011	-.221	3.7881	.012	1
S5	10.000	10.031	.031	.310	7.6049	.035	1
S2	.80000	.74899	-.051	-6.38	.57852	.002	1

Reviewed By:jaswal
On:10/17/2025 1:18:42 PM
Inst Id :P4
LB :LB137561



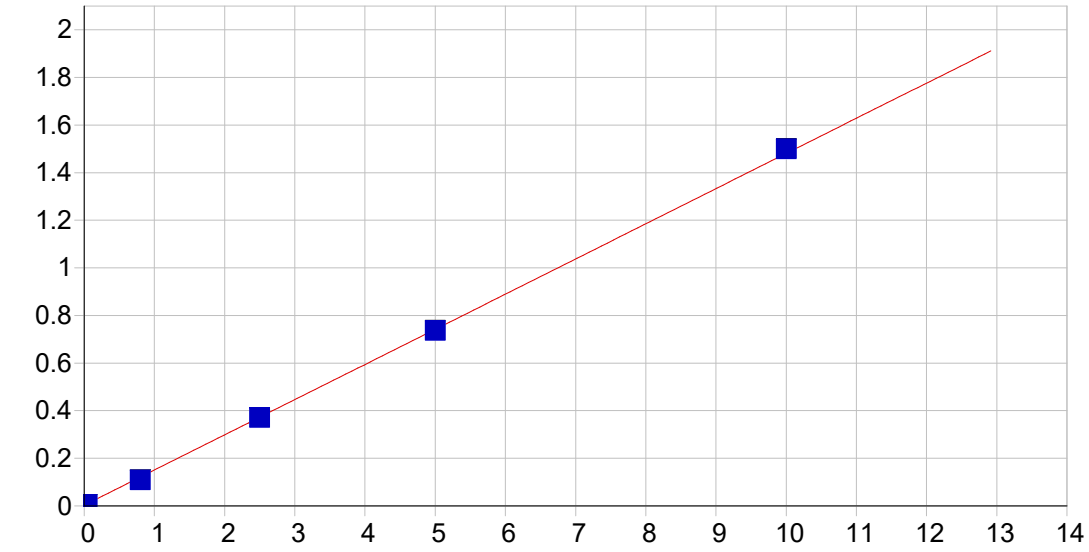
Mo 202.030 {467}

Date of Fit:	10/15/2025 14:39:15	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000520	Re-Slope:	1.000000
A1 (Gain):	0.669026	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999925	Status:	OK.
Std Error of Est:	0.000610		
Predicted MDL:	0.000255		
Predicted MQL:	0.000850		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00052	.000	1
S1	.20000	.19793	-.002	-1.03	.13294	.000	1
S3	2.5000	2.5690	.069	2.76	1.7193	.003	1
S4	5.0000	5.0051	.005	.103	3.3491	.006	1
S5	10.000	9.9496	-.050	-.504	6.6570	.009	1
S2	.80000	.77834	-.022	-2.71	.52125	.002	1

Reviewed By:jaswal
On:10/17/2025 1:18:42 PM
Inst Id :P4
LB :LB137561



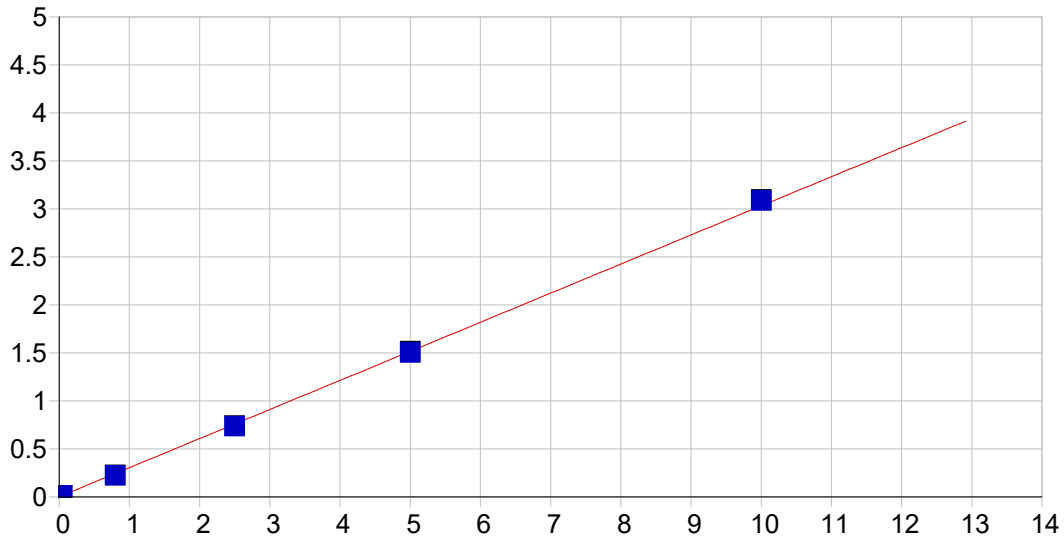
Sn 189.989 {478}

Date of Fit:	10/15/2025 14:39:15	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.003090	Re-Slope:	1.000000
A1 (Gain):	0.147765	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999720	Status:	OK.
Std Error of Est:	0.000116		
Predicted MDL:	0.000609		
Predicted MQL:	0.002030		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00001	.000	.000	.00309	.000	1
S1	.04000	.03674	-.003	-8.14	.00851	.000	1
S3	2.5000	2.4872	-.013	-.511	.37024	.000	1
S4	5.0000	4.9667	-.033	-.666	.73624	.001	1
S5	10.000	10.129	.129	1.29	1.4984	.001	1
S2	.80000	.71982	-.080	-10.0	.10933	.000	1

Reviewed By:jaswal
On:10/17/2025 1:18:42 PM
Inst Id :P4
LB :LB137561



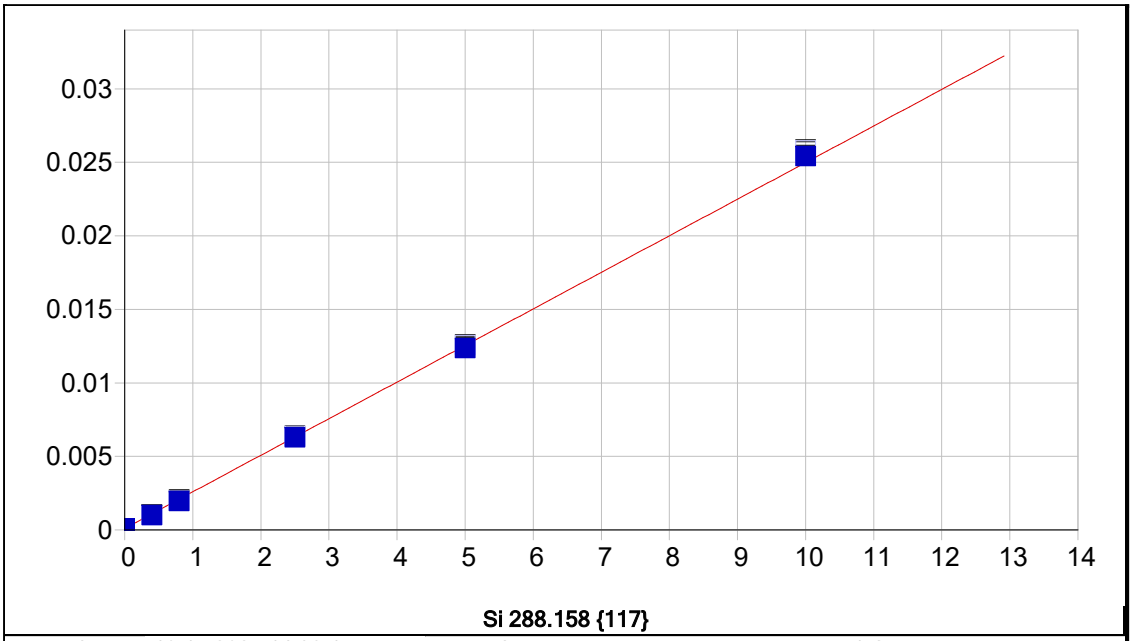
Ti 336.121 {100}

Date of Fit:	10/15/2025 14:39:15	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.001232	Re-Slope:	1.000000
A1 (Gain):	0.303030	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999705	Status:	OK.
Std Error of Est:	0.000244		
Predicted MDL:	0.001925		
Predicted MQL:	0.006415		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00001	.000	.000	.00123	.000	1
S1	.04000	.03874	-.001	-3.15	.01296	.000	1
S3	2.5000	2.4269	-.073	-2.93	.73637	.005	1
S4	5.0000	4.9617	-.038	-.765	1.5042	.012	1
S5	10.000	10.177	.177	1.77	3.0841	.010	1
S2	.80000	.73550	-.064	-8.06	.22402	.001	1

Reviewed By:jaswal
On:10/17/2025 1:18:42 PM
Inst Id :P4
LB :LB137561



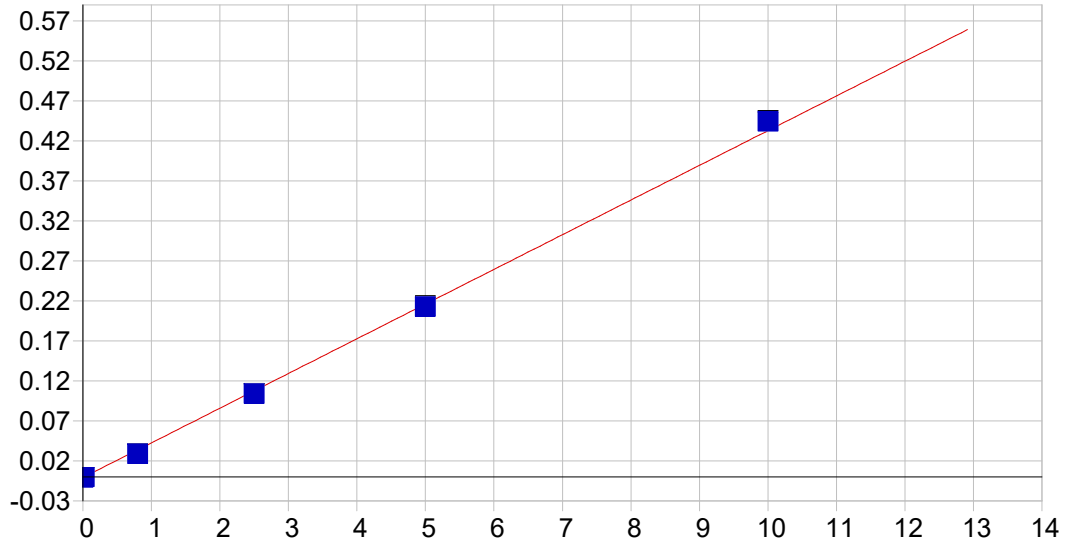
Si 288.158 {117}

Date of Fit:	10/15/2025 14:39:15	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000100	Re-Slope:	1.000000
A1 (Gain):	0.002488	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999706	Status:	OK.
Std Error of Est:	0.000006		
Predicted MDL:	0.015126		
Predicted MQL:	0.050419		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00007	.000	.000	.00010	.000	1
S1	.40000	.36264	-.037	-9.34	.00100	.000	1
S3	2.5000	2.4836	-.016	-.657	.00637	.000	1
S4	5.0000	4.9303	-.070	-1.39	.01256	.000	1
S5	10.000	10.177	.177	1.77	.02580	.000	1
S2	.80000	.74621	-.054	-6.72	.00199	.000	1

Reviewed By:jaswal
On:10/17/2025 1:18:42 PM
Inst Id :P4
LB :LB137561



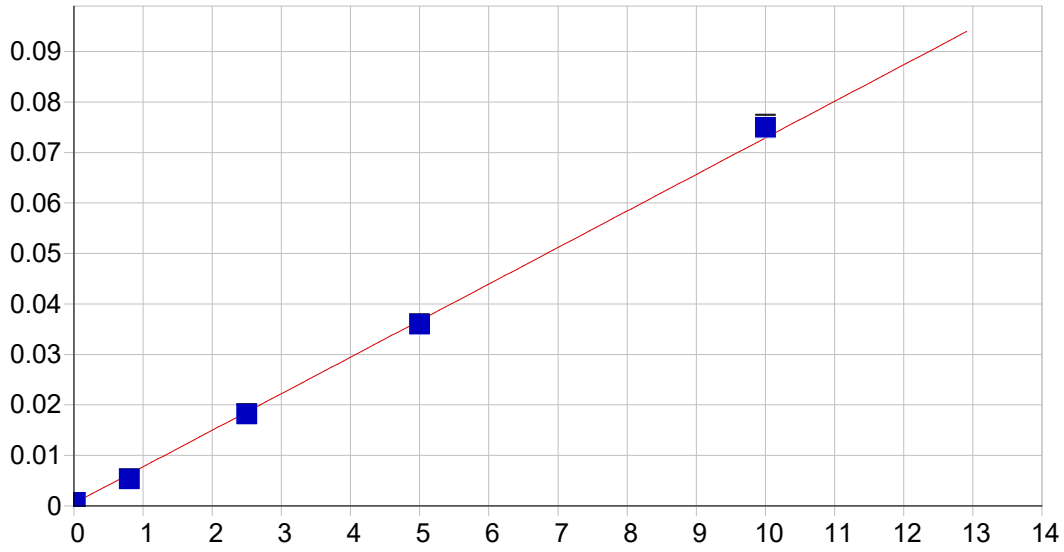
P 177.495 {490}

Date of Fit:	10/15/2025 14:39:15	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000826	Re-Slope:	1.000000
A1 (Gain):	0.043364	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999218	Status:	OK.
Std Error of Est:	0.000040		
Predicted MDL:	0.001697		
Predicted MQL:	0.005656		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	-.00083	.000	1
S1	.02000	.01922	-.001	-3.92	.00001	.000	1
S3	2.5000	2.4192	-.081	-3.23	.10406	.000	1
S4	5.0000	4.9295	-.071	-1.41	.21290	.001	1
S5	10.000	10.271	.271	2.71	.44450	.001	1
S2	.80000	.68100	-.119	-14.9	.02870	.000	1

Reviewed By:jaswal
On:10/17/2025 1:18:42 PM
Inst Id :P4
LB :LB137561



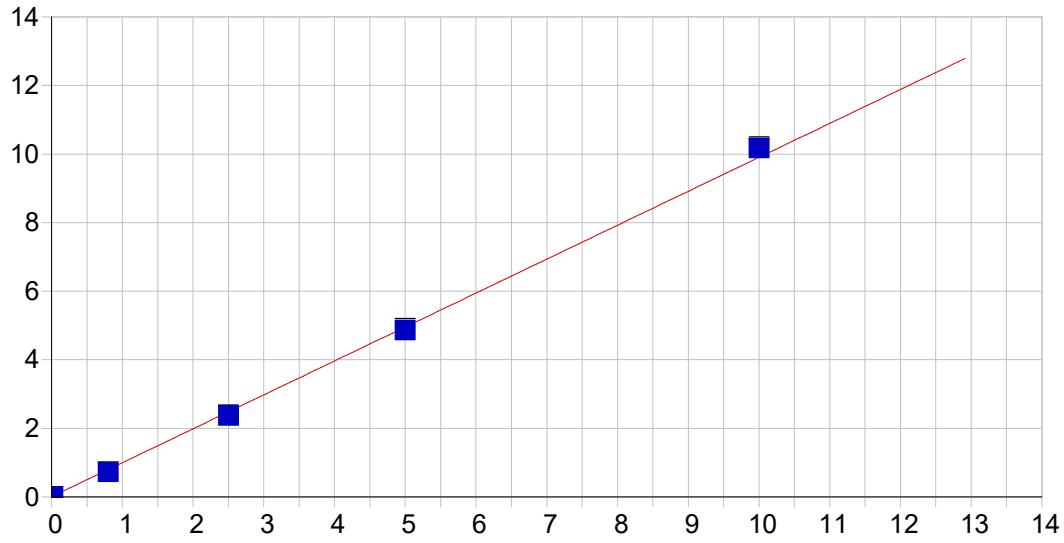
S 182.034 {485}

Date of Fit:	10/15/2025 14:39:15	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000510	Re-Slope:	1.000000
A1 (Gain):	0.007237	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999043	Status:	OK.
Std Error of Est:	0.000007		
Predicted MDL:	0.010148		
Predicted MQL:	0.033826		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00051	.000	1
S1	.02000	.02262	.003	13.1	.00067	.000	1
S3	2.5000	2.4434	-.057	-2.26	.01815	.000	1
S4	5.0000	4.9009	-.099	-1.98	.03589	.000	1
S5	10.000	10.289	.289	2.89	.07478	.001	1
S2	.80000	.66440	-.136	-17.0	.00530	.000	1

Reviewed By:jaswal
On:10/17/2025 1:18:42 PM
Inst Id :P4
LB :LB137561



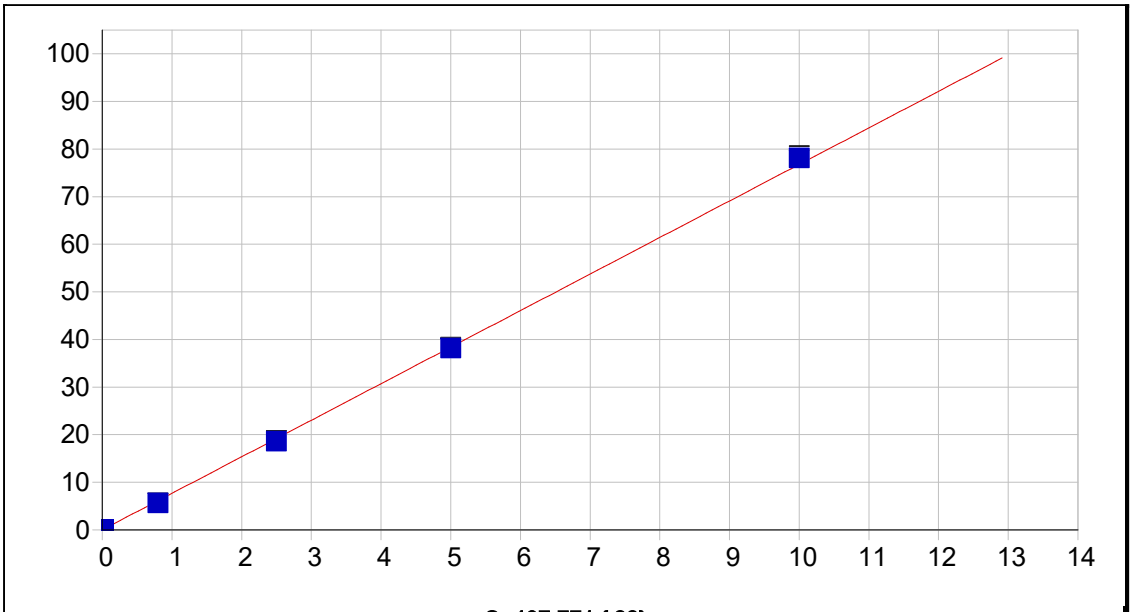
Li 670.784 { 50}

Date of Fit:	10/15/2025 14:39:15	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.006387	Re-Slope:	1.000000
A1 (Gain):	0.989740	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999431	Status:	OK.
Std Error of Est:	0.000783		
Predicted MDL:	0.001923		
Predicted MQL:	0.006411		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00639	.001	1
S5	10.000	10.272	.272	2.72	10.181	.030	1
S4	5.0000	4.9082	-.092	-1.84	4.8682	.047	1
S3	2.5000	2.3921	-.108	-4.32	2.3759	.017	1
S1	.02000	.02190	.002	9.51	.02841	.002	1
S2	.80000	.72547	-.075	-9.32	.72504	.003	1

Reviewed By:jaswal
On:10/17/2025 1:18:42 PM
Inst Id :P4
LB :LB137561



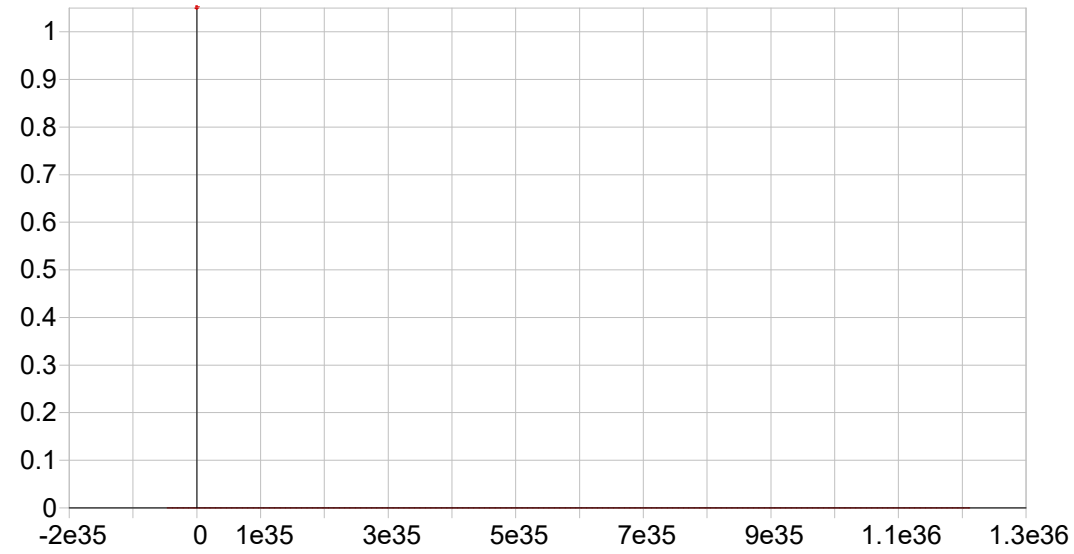
Sr 407.771 { 83}

Date of Fit:	10/15/2025 14:39:15	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.001571	Re-Slope:	1.000000
A1 (Gain):	7.677354	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999702	Status:	OK.
Std Error of Est:	0.004398		
Predicted MDL:	0.000129		
Predicted MQL:	0.000430		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00158	.001	1
S1	.02000	.02049	.000	2.45	.15962	.002	1
S3	2.5000	2.4269	-.073	-2.92	18.652	.123	1
S4	5.0000	4.9693	-.031	-.615	38.189	.189	1
S5	10.000	10.171	.171	1.71	78.160	.441	1
S2	.80000	.73250	-.067	-8.44	5.6312	.018	1

Reviewed By:jaswal
On:10/17/2025 1:18:42 PM
Inst Id :P4
LB :LB137561

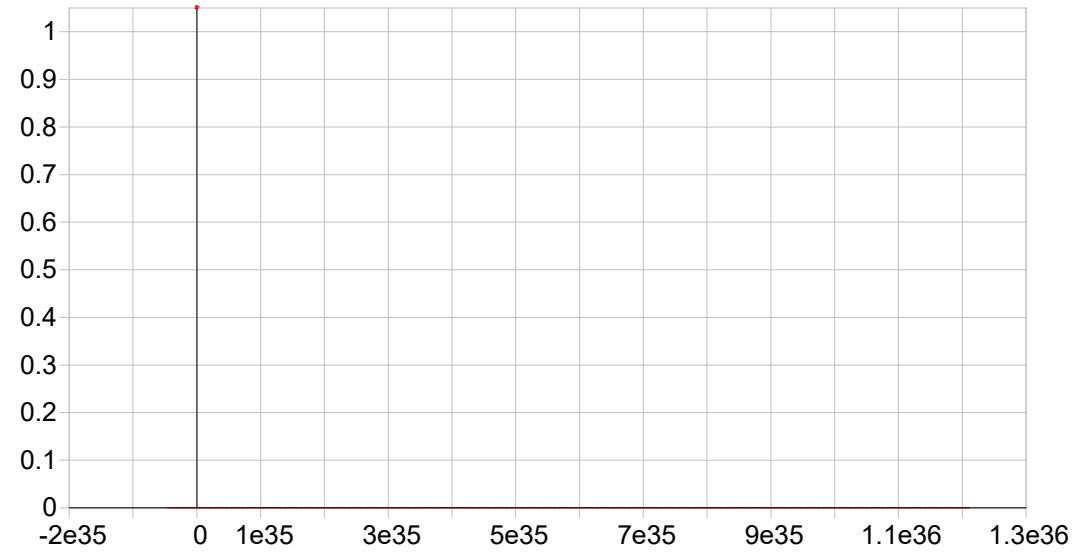


Y 224.306 {450}*

Date of Fit:	10/15/2025 14:39:15	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}*

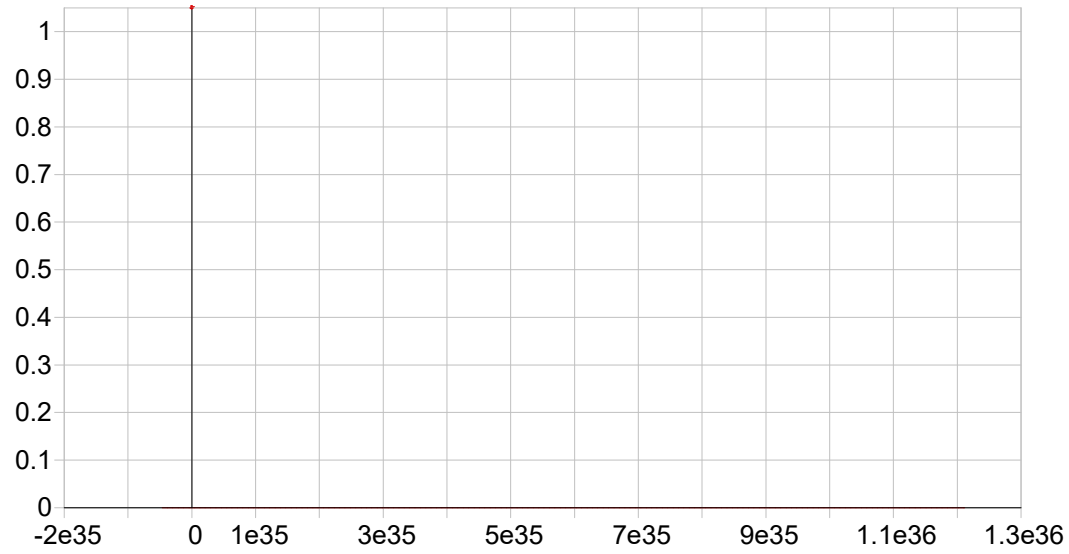
Date of Fit:	<not fit>	Type of Fit:	Linear	Weighting:	1/Conc

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

Reviewed By:jaswal
On:10/17/2025 1:18:42 PM
Inst Id :P4
LB :LB137561

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



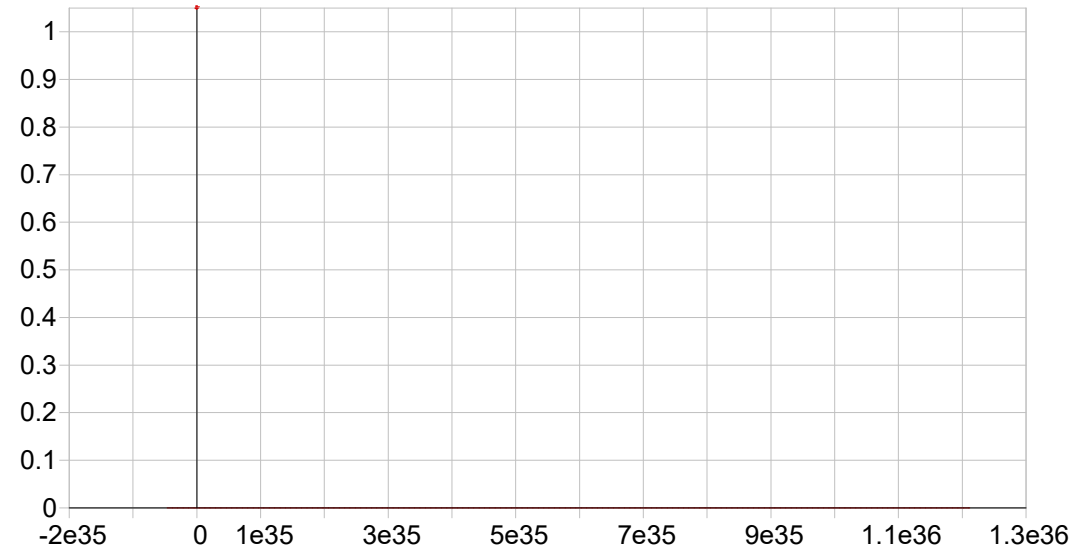
Y 371.030 { 91}*

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

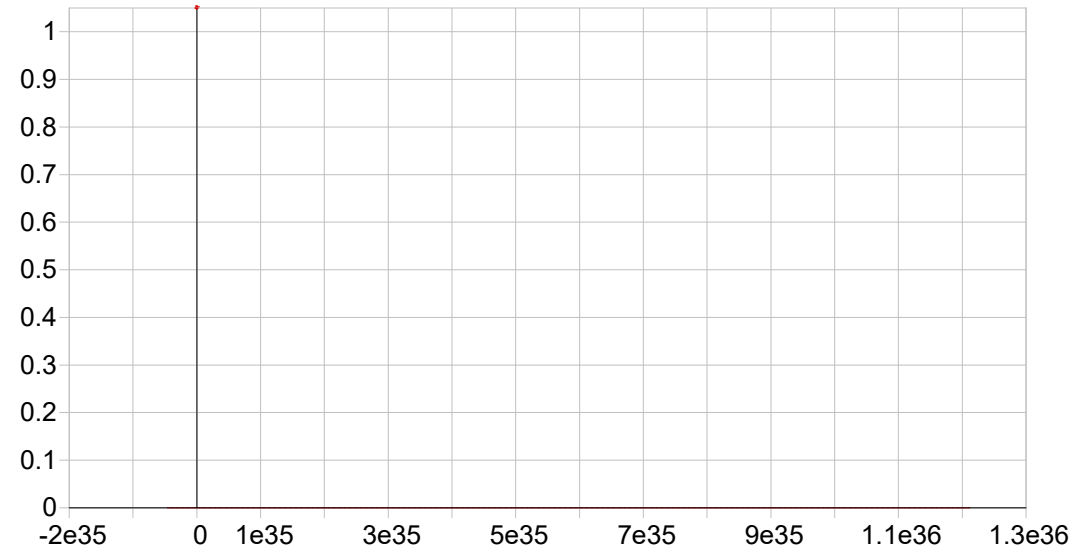
Reviewed By:jaswal
On:10/17/2025 1:18:42 PM
Inst Id :P4
LB :LB137561



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:10/17/2025 1:18:42 PM
Inst Id :P4
LB :LB137561

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:10/17/2025 1:18:42 PM
Inst Id :P4
LB :LB137561

Sample Name: S0 Acquired: 10/15/2025 13:15:21 Type: Cal
Method: 6010-200.7 NEW(v285) 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	**-.00015**	**.00045**	**.00016**	**.00067**	**.00093**	**-.00021**	**.07562**	**-.00243**
Stddev	.00004	.00004	.00008	.00014	.00010	.00023	.00235	.00035
%RSD	25.379	8.2866	47.409	20.761	10.838	109.36	3.1092	14.565
#1	-.00014	.00047	.00009	.00081	.00086	-.00014	.07568	-.00237
#2	-.00018	.00048	.00024	.00069	.00104	-.00047	.07794	-.00211
#3	-.00011	.00041	.00016	.00053	.00088	-.00003	.07324	-.00282

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	**-.00032**	**-.00068**	**.00013**	**.00010**	**.00055**	**.00003**	**.00016**	**.00006**
Stddev	.00010	.00010	.00002	.00017	.00015	.00002	.00019	.00014
%RSD	32.592	14.278	17.962	177.88	26.495	74.248	120.14	224.28
#1	-.00021	-.00076	.00015	.00002	.00047	.00005	.00012	.00001
#2	-.00042	-.00057	.00010	-.00002	.00047	.00002	-.00001	.00022
#3	-.00032	-.00072	.00013	.00029	.00072	.00001	.00037	-.00005

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	**-.00070**	**-.00096**	**.00028**	**-.00000**	**.00452**	**-.00086**	**.01171**	**.00052**
Stddev	.00017	.00006	.00012	.00040	.00052	.00006	.00011	.00010
%RSD	24.717	6.0484	42.092	32325.	11.410	6.5557	.97037	19.941
#1	-.00052	-.00099	.00036	.00024	.00483	-.00089	.01171	.00063
#2	-.00086	-.00099	.00015	-.00046	.00480	-.00089	.01182	.00052
#3	-.00073	-.00089	.00034	.00022	.00392	-.00080	.01159	.00042

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	**.00309**	**.00123**	**.00010**	**-.00083**	**.00051**	**.00639**	**.00158**
Stddev	.00004	.00049	.00001	.00002	.00011	.00098	.00142
%RSD	1.4298	39.701	5.9614	2.0772	21.218	15.285	89.526
#1	.00312	.00088	.00010	-.00082	.00051	.00662	.00321
#2	.00311	.00179	.00009	-.00081	.00062	.00532	.00095
#3	.00304	.00103	.00011	-.00084	.00040	.00723	.00059

Reviewed By:jaswal
On:10/17/2025 1:18:42 PM
Inst Id :P4
LB :LB137561

Sample Name: S0 Acquired: 10/15/2025 13:15:21 Type: Cal
Method: 6010-200.7 NEW(v285) 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	5761.2	95928.	7397.7	4564.9	7534.9
Stddev	12.2	251.	53.4	19.0	22.8
%RSD	.21231	.26117	.72248	.41618	.30234
#1	5772.5	96053.	7338.0	4561.4	7559.9
#2	5748.2	95640.	7413.8	4548.0	7515.3
#3	5762.9	96092.	7441.2	4585.5	7529.6

Reviewed By:jaswal
On:10/17/2025 1:18:42 PM
Inst Id :P4
LB :LB137561

Sample Name: S1 Acquired: 10/15/2025 13:19:43 Type: Cal
Method: 6010-200.7 NEW(v285) 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	**.00102**	**.00260**	**.00242**	**.00144**	**.00569**	**.00885**	**.30306**	**.07191**	**.01609**
Stddev	.00001	.00005	.00020	.00006	.00008	.00073	.00381	.00119	.00011
%RSD	1.1739	1.8511	8.4716	4.4586	1.4800	8.1963	1.2558	1.6524	.66498
#1	.00103	.00260	.00230	.00140	.00578	.00865	.29987	.07138	.01603
#2	.00103	.00255	.00230	.00151	.00565	.00825	.30203	.07109	.01603
#3	.00101	.00265	.00265	.00140	.00563	.00965	.30727	.07327	.01622

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	**.11527**	**.00206**	**.02963**	**.01459**	**.00028**	**.00895**	**.02480**	**.02752**	**.00106**
Stddev	.00117	.00004	.00020	.00027	.00001	.00024	.00042	.00015	.00003
%RSD	1.0163	1.9094	.68099	1.8844	5.0392	2.6416	1.6879	.56032	2.6921
#1	.11405	.00206	.02953	.01491	.00029	.00896	.02447	.02735	.00105
#2	.11538	.00210	.02950	.01444	.00028	.00871	.02465	.02755	.00109
#3	.11638	.00202	.02986	.01443	.00026	.00918	.02527	.02765	.00103

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	**.01418**	**.00426**	**.10394**	**.00629**	**.08436**	**.13294**	**.00851**	**.01296**	**.00100**
Stddev	.00005	.00039	.00034	.00013	.00040	.00031	.00002	.00019	.00001
%RSD	.37638	9.2359	.32590	2.0611	.47362	.23087	.19136	1.4752	1.1536
#1	.01413	.00382	.10381	.00642	.08434	.13260	.00850	.01302	.00099
#2	.01418	.00437	.10432	.00628	.08397	.13320	.00853	.01312	.00101
#3	.01424	.00459	.10368	.00616	.08477	.13302	.00852	.01275	.00101

Elem	P_1774	S_1820	Li6707	Sr4077
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00001**	**.00067**	**.02841**	**.15962**
Stddev	.00006	.00006	.00151	.00163
%RSD	759.28	9.3110	5.3210	1.0211
#1	.00007	.00063	.02699	.15797
#2	.00001	.00063	.02823	.15968
#3	-.00005	.00074	.03000	.16122

Reviewed By:jaswal
On:10/17/2025 1:18:42 PM
Inst Id :P4
LB :LB137561

Sample Name: S1 Acquired: 10/15/2025 13:19:43 Type: Cal
Method: 6010-200.7 NEW(v285) 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	5909.7	98520.	7591.0	4739.5	7571.6
Stddev	9.3	261.	52.9	21.2	13.6
%RSD	.15692	.26469	.69679	.44655	.17937
#1	5914.2	98717.	7642.2	4760.2	7570.7
#2	5899.0	98618.	7594.2	4740.4	7558.5
#3	5915.8	98224.	7536.6	4717.9	7585.6

Reviewed By:jaswal
On:10/17/2025 1:18:42 PM
Inst Id :P4
LB :LB137561

Sample Name: S2 Acquired: 10/15/2025 13:24:03 Type: Cal
Method: 6010-200.7 NEW(v285) 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	.03801	.04094	.14378	.03456	.07291	.13038	3.4128	.45620	1.0456
Stddev	.00011	.00146	.00020	.00016	.00006	.00058	.0168	.00253	.0009
%RSD	.29539	3.5689	.13913	.46052	.08666	.44691	.49180	.55429	.08439
#1	.03796	.03977	.14358	.03440	.07284	.13105	3.4265	.45900	1.0448
#2	.03814	.04258	.14379	.03472	.07297	.13012	3.4179	.45407	1.0454
#3	.03794	.04047	.14398	.03454	.07292	.12997	3.3941	.45554	1.0466

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	.21716	.03039	.37419	.12690	.00178	.15530	.04455	.26444	.03698
Stddev	.00065	.00004	.00029	.00034	.00001	.00069	.00026	.00015	.00006
%RSD	.30155	.14714	.07873	.26788	.84364	.44190	.59437	.05596	.16821
#1	.21765	.03039	.37394	.12652	.00176	.15511	.04461	.26447	.03694
#2	.21741	.03044	.37412	.12702	.00177	.15606	.04477	.26428	.03705
#3	.21641	.03035	.37451	.12717	.00179	.15473	.04426	.26458	.03695

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	.02535	.04734	.94067	.01256	.57852	.52125	.10933	.22402	.00199
Stddev	.00013	.00062	.00186	.00005	.00204	.00181	.00049	.00140	.00006
%RSD	.50529	1.3010	.19761	.38699	.35214	.34814	.45070	.62290	3.0631
#1	.02538	.04793	.94237	.01251	.58084	.51922	.10877	.22530	.00193
#2	.02546	.04739	.94095	.01261	.57770	.52272	.10956	.22423	.00205
#3	.02521	.04670	.93869	.01257	.57702	.52181	.10967	.22253	.00198

Elem	P_1774	S_1820	Li6707	Sr4077
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.02870	.00530	.72504	5.6312
Stddev	.00010	.00005	.00296	.0182
%RSD	.35619	.98021	.40841	.32405
#1	.02865	.00526	.72284	5.6445
#2	.02882	.00536	.72841	5.6386
#3	.02863	.00528	.72387	5.6104

Reviewed By:jaswal
On:10/17/2025 1:18:42 PM
Inst Id :P4
LB :LB137561

Sample Name: S2 Acquired: 10/15/2025 13:24:03 Type: Cal
Method: 6010-200.7 NEW(v285) 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	5966.9	97997.	7660.1	4606.6	7454.9
Stddev	5.7	182.	54.6	4.0	10.8
%RSD	.09470	.18564	.71259	.08779	.14456
#1	5960.4	97843.	7599.1	4610.7	7443.3
#2	5969.6	97950.	7704.4	4602.6	7464.6
#3	5970.6	98197.	7676.8	4606.5	7456.8

Reviewed By:jaswal
On:10/17/2025 1:18:42 PM
Inst Id :P4
LB :LB137561

Sample Name: S3 Acquired: 10/15/2025 13:28:11 Type: Cal
Method: 6010-200.7 NEW(v285) 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	**.12873**	**.14111**	**.48919**	**.11609**	**.24271**	**.43297**	**11.322**	**1.5374**	**3.6117**
Stddev	.00036	.00863	.00153	.00069	.00037	.00365	.092	.0152	.0117
%RSD	.28256	6.1134	.31291	.59811	.15257	.84407	.81539	.98726	.32488
#1	.12915	.14675	.48788	.11632	.24249	.43015	11.216	1.5208	3.6043
#2	.12853	.14540	.48882	.11664	.24314	.43710	11.382	1.5410	3.6055
#3	.12851	.13118	.49087	.11531	.24250	.43167	11.369	1.5505	3.6252

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	**.71189**	**.09839**	**1.2830**	**.41954**	**.00598**	**.51221**	**.14610**	**.90527**	**.12442**
Stddev	.00566	.00041	.0040	.00118	.00004	.00395	.00168	.00284	.00033
%RSD	.79533	.41237	.30851	.28069	.63397	.77096	1.1503	.31412	.26527
#1	.70701	.09880	1.2803	.41820	.00599	.50774	.14444	.90375	.12449
#2	.71809	.09799	1.2812	.42001	.00602	.51521	.14780	.90352	.12406
#3	.71056	.09837	1.2876	.42042	.00594	.51369	.14605	.90856	.12470

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	**.08524**	**.15700**	**3.0601**	**.04381**	**1.9305**	**1.7193**	**.37024**	**.73637**	**.00637**
Stddev	.00027	.00161	.0097	.00027	.0211	.0028	.00044	.00487	.00004
%RSD	.31334	1.0256	.31778	.62036	1.0908	.16528	.11770	.66127	.55087
#1	.08526	.15531	3.0637	.04413	1.9078	1.7208	.37062	.73078	.00641
#2	.08550	.15852	3.0491	.04367	1.9343	1.7210	.36976	.73970	.00638
#3	.08496	.15717	3.0675	.04364	1.9494	1.7160	.37033	.73862	.00634

Elem	P_1774	S_1820	Li6707	Sr4077
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.10406**	**.01815**	**2.3759**	**18.652**
Stddev	.00028	.00007	.0173	.123
%RSD	.26560	.38932	.72934	.66173
#1	.10397	.01823	2.3562	18.585
#2	.10384	.01812	2.3888	18.577
#3	.10437	.01809	2.3827	18.795

Reviewed By:jaswal
On:10/17/2025 1:18:42 PM
Inst Id :P4
LB :LB137561

Sample Name: S3 Acquired: 10/15/2025 13:28:11 Type: Cal
Method: 6010-200.7 NEW(v285) 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	**5689.5**	**94204.**	**7427.6**	**4465.7**	**6810.3**
Stddev	17.9	331.	55.6	14.6	31.9
%RSD	.31398	.35157	.74816	.32605	.46849
#1	5706.3	93843.	7491.2	4449.0	6830.4
#2	5691.4	94277.	7402.7	4475.2	6827.0
#3	5670.7	94493.	7388.8	4473.0	6773.5

Reviewed By:jaswal
On:10/17/2025 1:18:42 PM
Inst Id :P4
LB :LB137561

Sample Name: S4 Acquired: 10/15/2025 13:32:17 Type: Cal
Method: 6010-200.7 NEW(v285) 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	**.25270**	**.27768**	**.96715**	**.22483**	**.47304**	**.87242**	**23.232**	**3.0088**	**7.2191**
Stddev	.00058	.01080	.00078	.00035	.00138	.00318	.256	.0073	.0030
%RSD	.22976	3.8899	.08095	.15396	.29244	.36467	1.1030	.24206	.04147
#1	.25214	.28785	.96625	.22467	.47150	.87399	23.372	3.0170	7.2166
#2	.25268	.26634	.96751	.22460	.47419	.86876	22.936	3.0032	7.2224
#3	.25330	.27886	.96769	.22523	.47342	.87451	23.387	3.0061	7.2182

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	**1.4309**	**.19374**	**2.5480**	**.80580**	**.01193**	**1.0407**	**.29339**	**1.7920**	**.24233**
Stddev	.0063	.00041	.0023	.00328	.00009	.0112	.00117	.0020	.00031
%RSD	.43972	.20909	.09000	.40675	.78521	1.0717	.39732	.11049	.12967
#1	1.4376	.19329	2.5453	.80240	.01193	1.0418	.29460	1.7898	.24260
#2	1.4251	.19408	2.5492	.80894	.01185	1.0291	.29227	1.7927	.24240
#3	1.4301	.19384	2.5494	.80606	.01203	1.0513	.29332	1.7935	.24198

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	**.17574**	**.31722**	**5.9221**	**.08950**	**3.7881**	**3.3491**	**.73624**	**1.5042**	**.01256**
Stddev	.00211	.00200	.0085	.00048	.0122	.0057	.00114	.0116	.00005
%RSD	1.2035	.63076	.14379	.54145	.32133	.16941	.15503	.77245	.39792
#1	.17633	.31903	5.9316	.08973	3.8018	3.3426	.73700	1.5109	.01253
#2	.17339	.31507	5.9196	.08895	3.7785	3.3532	.73493	1.4908	.01252
#3	.17749	.31756	5.9151	.08983	3.7841	3.3515	.73680	1.5110	.01261

Elem	P_1774	S_1820	Li6707	Sr4077
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.21290**	**.03589**	**4.8682**	**38.189**
Stddev	.00086	.00007	.0470	.189
%RSD	.40627	.19383	.96604	.49513
#1	.21228	.03584	4.8848	38.247
#2	.21253	.03585	4.8151	37.978
#3	.21389	.03597	4.9046	38.343

Reviewed By:jaswal
On:10/17/2025 1:18:42 PM
Inst Id :P4
LB :LB137561

Sample Name: S4 Acquired: 10/15/2025 13:32:17 Type: Cal
Method: 6010-200.7 NEW(v285) 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	5691.0	93650.	7231.2	4515.6	6599.3
Stddev	14.2	225.	31.6	4.0	8.8
%RSD	.24940	.24034	.43641	.08916	.13279
#1	5706.9	93491.	7194.8	4519.1	6609.2
#2	5679.6	93551.	7250.9	4511.2	6596.2
#3	5686.5	93907.	7247.9	4516.3	6592.5

Reviewed By:jaswal
On:10/17/2025 1:18:42 PM
Inst Id :P4
LB :LB137561

Sample Name: S5 Acquired: 10/15/2025 13:36:26 Type: Cal
Method: 6010-200.7 NEW(v285) 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	.50669	.54478	1.9856	.44617	.94561	1.7818	47.846	5.9989	14.783
Stddev	.00039	.01298	.0011	.00054	.00172	.0018	.244	.0195	.006
%RSD	.07789	2.3820	.05366	.12212	.18162	.10149	.51029	.32456	.04261
#1	.50704	.55761	1.9847	.44670	.94623	1.7838	47.754	5.9819	14.786
#2	.50678	.53166	1.9855	.44621	.94693	1.7812	47.661	5.9947	14.775
#3	.50626	.54508	1.9868	.44561	.94367	1.7803	48.123	6.0202	14.787

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	2.9058	.38270	5.2340	1.5957	.02432	2.1308	.59911	3.6690	.48768
Stddev	.0029	.00212	.0025	.0024	.00006	.0079	.00066	.0014	.00007
%RSD	.09886	.55301	.04741	.15310	.24145	.37010	.11074	.03915	.01368
#1	2.9032	.38483	5.2324	1.5973	.02438	2.1236	.59890	3.6688	.48772
#2	2.9054	.38265	5.2327	1.5968	.02427	2.1295	.59985	3.6677	.48772
#3	2.9089	.38060	5.2368	1.5929	.02430	2.1392	.59857	3.6706	.48761

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	.37379	.65404	11.710	.18627	7.6049	6.6570	1.4984	3.0841	.02580
Stddev	.00129	.00191	.034	.00060	.0352	.0095	.0008	.0101	.00006
%RSD	.34630	.29271	.29135	.32193	.46237	.14227	.05475	.32681	.24488
#1	.37492	.65292	11.749	.18676	7.5699	6.6668	1.4990	3.0786	.02573
#2	.37408	.65295	11.684	.18645	7.6045	6.6564	1.4987	3.0780	.02584
#3	.37238	.65625	11.697	.18560	7.6402	6.6479	1.4974	3.0958	.02583

Elem	P_1774	S_1820	Li6707	Sr4077
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.44450	.07478	10.181	78.160
Stddev	.00112	.00063	.030	.441
%RSD	.25113	.84737	.29494	.56399
#1	.44576	.07472	10.150	78.526
#2	.44364	.07419	10.185	77.671
#3	.44410	.07545	10.209	78.284

Reviewed By:jaswal
On:10/17/2025 1:18:42 PM
Inst Id :P4
LB :LB137561

Sample Name: S5 Acquired: 10/15/2025 13:36:26 Type: Cal
Method: 6010-200.7 NEW(v285) 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	5517.2	91323.	7015.8	4413.5	6179.1
Stddev	6.6	436.	13.4	18.9	2.5
%RSD	.11892	.47710	.19152	.42736	.04005
#1	5512.7	90839.	7019.1	4391.8	6176.8
#2	5514.0	91445.	7027.2	4422.5	6179.0
#3	5524.7	91685.	7001.0	4426.2	6181.7

Reviewed By:jaswal
On:10/17/2025 1:18:42 PM
Inst Id :P4
LB :LB137561

Sample Name: ICV01 Acquired: 10/15/2025 14:07:00 Type: Unk
Method: 6010-200.7 NEW(v285) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: ICV01 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**3.953537**	**4.159389**	**3.803803**	**4.023826**	**4.049214**	**7.810464**	**7.913858**
Stddev	.087157	.257921	.089608	.097891	.089131	.035177	.065614
%RSD	2.204522	6.200934	2.355735	2.432784	2.201186	.4503819	.8291044
#1	3.895083	3.923420	3.751175	3.959130	4.010443	7.844584	7.971870
#2	3.911817	4.120013	3.752965	3.975902	3.986035	7.812491	7.927055
#3	4.053712	4.434733	3.907267	4.136445	4.151164	7.774318	7.842648

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2018665**	**1.925206**	**19.61378**	**.7950108**	**1.942330**	**.9919046**	**3.931571**
Stddev	.0018256	.047422	.14327	.0122496	.047125	.0225924	.046792
%RSD	.9043480	2.463239	.7304648	1.540805	2.426204	2.277683	1.190160
#1	.2037041	1.898181	19.76398	.7986590	1.916103	.9796359	3.943237
#2	.2018423	1.897474	19.59872	.8050219	1.914153	.9781008	3.971426
#3	.2000532	1.979963	19.47863	.7813516	1.996733	1.017977	3.880050

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.982842**	**19.42329**	**1.947446**	**.9529785**	**19.33831**	**1.955417**	**1.965861**
Stddev	.010553	.09629	.047809	.0129304	.20925	.011002	.031086
%RSD	.5322094	.4957529	2.454982	1.356835	1.082043	.5626550	1.581272
#1	1.993396	19.53447	1.920729	.9576392	19.37089	1.967140	1.975378
#2	1.982841	19.36646	1.918968	.9629323	19.52936	1.953797	1.991075
#3	1.972290	19.36895	2.002643	.9383639	19.11468	1.945315	1.931129

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**19.30612**	**3.895147**	**3.872850**	**3.871178**	**3.929893**	**3.848101**	**4.039398**
Stddev	.26727	.032581	.093912	.096526	.023655	.049618	.103331
%RSD	1.384378	.8364535	2.424889	2.493450	.6019288	1.289409	2.558069
#1	19.32856	3.931727	3.818291	3.818176	3.955114	3.846329	3.983313
#2	19.56146	3.884472	3.818970	3.812765	3.926364	3.898582	3.976238
#3	19.02834	3.869243	3.981290	3.982593	3.908200	3.799393	4.158644

Reviewed By:jaswal
On:10/17/2025 1:18:42 PM
Inst Id :P4
LB :LB137561

Sample Name: ICV01 Acquired: 10/15/2025 14:07:00 Type: Unk
Method: 6010-200.7 NEW(v285) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: ICV01 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	**4.061353**	**4.029185**	**4.023320**
Stddev	.125602	.029618	.080240
%RSD	3.092602	.7350989	1.994380
#1	3.980258	4.057914	4.028754
#2	3.997769	4.030890	4.100706
#3	4.206032	3.998751	3.940501

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5843.598**	**96236.89**	**7354.579**	**4683.122**	**6791.373**
Stddev	127.022	1140.57	57.924	82.806	156.974
%RSD	2.173688	1.185166	.7875959	1.768184	2.311367
#1	5910.203	95915.46	7290.811	4678.465	6871.574
#2	5923.465	95291.52	7368.987	4602.743	6892.044
#3	5697.126	97503.68	7403.939	4768.159	6610.501

Reviewed By:jaswal
On:10/17/2025 1:18:42 PM
Inst Id :P4
LB :LB137561

Sample Name: LLICV01 Acquired: 10/15/2025 14:19:53 Type: Unk
Method: 6010-200.7 NEW(v285) 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	**.0217915**	**.0439083**	**.0122421**	**.0190739**	**.0508680**	**.0995055**	**.0928739**
Stddev	.0016395	.0024052	.0009013	.0013283	.0004896	.0076309	.0006313
%RSD	7.523662	5.477792	7.362487	6.964153	.9625570	7.668818	.6797841
#1	.0218715	.0413368	.0113284	.0186832	.0512866	.0915262	.0926371
#2	.0201134	.0461026	.0131305	.0205538	.0503296	.1067323	.0935894
#3	.0233895	.0442855	.0122673	.0179848	.0509879	.1002581	.0923952

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0062223**	**.0057685**	**2.018232**	**.0103842**	**.0292627**	**.0220732**	**.1002776**
Stddev	.0000069	.0000631	.011564	.0002352	.0001673	.0002502	.0023027
%RSD	.1111651	1.094630	.5729784	2.265132	.5716106	1.133581	2.296356
#1	.0062190	.0056956	2.010100	.0103122	.0290820	.0220296	.0988872
#2	.0062177	.0058052	2.013126	.0101934	.0292939	.0218477	.0990100
#3	.0062302	.0058047	2.031470	.0106470	.0294122	.0223424	.1029357

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0193879**	**2.051756**	**.0396927**	**.0106916**	**1.779405**	**.0354265**	**.0429080**
Stddev	.0002296	.022136	.0002848	.0005209	.022221	.0018924	.0002825
%RSD	1.183974	1.078897	.7176160	4.871644	1.248775	5.341852	.6583697
#1	.0196516	2.070805	.0393730	.0101369	1.755324	.0341734	.0427517
#2	.0192787	2.027471	.0399196	.0107676	1.783775	.0376034	.0427381
#3	.0192333	2.056993	.0397855	.0111703	1.799116	.0345027	.0432341

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.884603**	**.0926083**	**.2027070**	**.0368169**	**.0382795**	**.3614318**	**.0195522**
Stddev	.030539	.0003923	.0014919	.0007520	.0015168	.0145539	.0005777
%RSD	1.620440	.4236109	.7359625	2.042413	3.962375	4.026723	2.954590
#1	1.854200	.0929861	.2011476	.0368251	.0388263	.3764082	.0200615
#2	1.884335	.0926359	.2028528	.0375647	.0394471	.3473410	.0189245
#3	1.915275	.0922029	.2041206	.0360609	.0365652	.3605461	.0196707

Reviewed By:jaswal
On:10/17/2025 1:18:42 PM
Inst Id :P4
LB :LB137561

Sample Name: LLICV01 Acquired: 10/15/2025 14:19:53 Type: Unk
Method: 6010-200.7 NEW(v285) 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	.0225904	.0182748	.0197234
Stddev	.0060700	.0014526	.0002250
%RSD	26.87001	7.948712	1.140743
#1	.0159699	.0182047	.0199462
#2	.0278936	.0197612	.0194963
#3	.0239078	.0168585	.0197277

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5931.382	98874.24	7793.703	4611.885	7601.457
Stddev	12.653	508.29	14.788	19.515	19.067
%RSD	.2133295	.5140790	.1897393	.4231488	.2508361
#1	5940.576	99283.26	7789.082	4620.601	7622.206
#2	5936.619	99034.27	7810.250	4625.523	7597.460
#3	5916.950	98305.20	7781.778	4589.531	7584.706

Reviewed By:jaswal
On:10/17/2025 1:18:42 PM
Inst Id :P4
LB :LB137561

Sample Name: ICB01 Acquired: 10/15/2025 14:24:11 Type: Unk
Method: 6010-200.7 NEW(v285) 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	**.0015867**	**.0013510**	**.0001638**	**.0017397**	**-.000416**	**.0000448**	**.0002594**
Stddev	.0012478	.0028791	.0004519	.0017358	.001536	.0028570	.0001954
%RSD	78.64077	213.1043	275.8314	99.77618	368.9286	6369.952	75.32405
#1	.0001564	-.001220	.0000559	.0004567	-.001201	.0030717	.0001509
#2	.0024524	.000811	.0006599	.0010476	.001353	-.000332	.0004850
#3	.0021515	.004462	-.000224	.0037148	-.001401	-.002605	.0001423

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000068**	**.0000052**	**.0249891**	**.0002202**	**-.000141**	**.0001129**	**-.001513**
Stddev	.000038	.0000203	.0134160	.0001831	.000090	.0000713	.005126
%RSD	54.95788	390.9069	53.68728	83.16083	63.68268	63.14695	338.8623
#1	-.000071	-.000011	.0158811	.0003932	-.000243	.0000861	-.000294
#2	-.000105	.000028	.0403953	.0000284	-.000110	.0000589	.002894
#3	-.000030	-.000001	.0186908	.0002390	-.000071	.0001938	-.007138

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000012**	**-.011581**	**-.000131**	**-.000101**	**-.019043**	**-.004140**	**.0003793**
Stddev	.000323	.023507	.000076	.000205	.012955	.000153	.0002120
%RSD	2636.487	202.9711	58.33086	203.1426	68.03142	3.705489	55.89646
#1	-.000270	.009452	-.000054	-.000334	-.008896	-.004284	.0005680
#2	-.000118	-.007239	-.000206	.000053	-.033636	-.003979	.0001499
#3	.000351	-.036956	-.000133	-.000022	-.014597	-.004158	.0004202

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.064610**	**-.005911**	**.0001964**	**-.003879**	**.0016172**	**-.011382**	**.0008282**
Stddev	.030677	.000433	.0002615	.000493	.0010546	.004160	.0010458
%RSD	47.48042	7.329572	133.1753	12.70241	65.20986	36.55447	126.2791
#1	-.045377	-.006225	.0004774	-.004397	.0027975	-.006579	-.000285
#2	-.099988	-.005417	-.000040	-.003416	.0012860	-.013888	.000981
#3	-.048465	-.006091	.000151	-.003824	.0007679	-.013678	.001790

Reviewed By:jaswal
On:10/17/2025 1:18:42 PM
Inst Id :P4
LB :LB137561

Sample Name: ICB01 Acquired: 10/15/2025 14:24:11 Type: Unk
Method: 6010-200.7 NEW(v285) 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	-.001741	.0002902	.0000642
Stddev	.008381	.0011508	.0001322
%RSD	481.3615	396.6176	205.8759
#1	.001426	-.000616	-.000074
#2	.004595	-.000099	.000077
#3	-.011244	.001585	.000189

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5687.567	94939.46	7355.105	4447.789	7440.233
Stddev	5.502	411.92	32.862	12.773	2.056
%RSD	.0967397	.4338766	.4467916	.2871710	.0276281
#1	5683.312	95283.84	7321.308	4443.065	7437.930
#2	5693.781	95051.41	7386.944	4438.052	7440.889
#3	5685.609	94483.14	7357.063	4462.251	7441.881

Reviewed By:jaswal
On:10/17/2025 1:18:42 PM
Inst Id :P4
LB :LB137561

Sample Name: CRI01 Acquired: 10/15/2025 14:28:33 Type: Unk
Method: 6010-200.7 NEW(v285) 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	**.0257413**	**.0429115**	**.0130809**	**.0220911**	**.0610364**	**.1101475**	**.1025743**
Stddev	.0003372	.0028451	.0004048	.0014066	.0013141	.0049686	.0007234
%RSD	1.309956	6.630245	3.094546	6.367204	2.152934	4.510817	.7052318
#1	.0255544	.0439894	.0126562	.0237068	.0595404	.1147404	.1017422
#2	.0261306	.0450602	.0134623	.0214263	.0615647	.1108287	.1030528
#3	.0255390	.0396849	.0131243	.0211401	.0620040	.1048736	.1029281

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0068221**	**.0062060**	**2.195196**	**.0111992**	**.0316606**	**.0241452**	**.1164388**
Stddev	.0000498	.0000550	.020487	.0001098	.0001425	.0001466	.0050825
%RSD	.7298665	.8867312	.9332628	.9799739	.4501662	.6069557	4.364923
#1	.0068791	.0061481	2.218662	.0111384	.0314962	.0241797	.1195192
#2	.0067995	.0062122	2.180871	.0113259	.0317366	.0242714	.1105726
#3	.0067875	.0062576	2.186054	.0111334	.0317490	.0239845	.1192247

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0219428**	**2.263865**	**.0427697**	**.0115245**	**1.992807**	**.0421382**	**.0480513**
Stddev	.0001682	.017880	.0001920	.0005554	.031439	.0014057	.0005054
%RSD	.7666452	.7897980	.4488347	4.818864	1.577636	3.335958	1.051896
#1	.0220455	2.245765	.0425735	.0121535	2.023595	.0436848	.0482433
#2	.0217487	2.264314	.0429571	.0111019	1.994071	.0409381	.0484326
#3	.0220343	2.281516	.0427786	.0113182	1.960755	.0417918	.0474779

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.106988**	**.1052976**	**.2159431**	**.0425656**	**.0409775**	**.3855389**	**.0200018**
Stddev	.028653	.0002102	.0004614	.0006743	.0004294	.0138620	.0002842
%RSD	1.359893	.1996627	.2136438	1.584036	1.047950	3.595490	1.420938
#1	2.096337	.1052869	.2154117	.0419960	.0414312	.3827955	.0200629
#2	2.085186	.1055130	.2161771	.0433101	.0409238	.3732537	.0196920
#3	2.139441	.1050929	.2162406	.0423909	.0405774	.4005675	.0202505

Reviewed By:jaswal
On:10/17/2025 1:18:42 PM
Inst Id :P4
LB :LB137561

Sample Name: CRI01 Acquired: 10/15/2025 14:28:33 Type: Unk
Method: 6010-200.7 NEW(v285) 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	.0175229	.0223943	.0219967
Stddev	.0105758	.0012989	.0000658
%RSD	60.35396	5.800106	.2990083
#1	.0286177	.0226892	.0220624
#2	.0163945	.0209733	.0219308
#3	.0075566	.0235204	.0219969

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5659.939	93977.60	7374.175	4495.148	7241.629
Stddev	4.853	376.32	20.437	20.450	10.858
%RSD	.0857453	.4004353	.2771482	.4549410	.1499351
#1	5658.620	94409.89	7377.684	4515.324	7252.613
#2	5665.315	93723.28	7352.211	4474.434	7241.372
#3	5655.881	93799.62	7392.631	4495.687	7230.902

Reviewed By:jaswal
On:10/17/2025 1:18:42 PM
Inst Id :P4
LB :LB137561

Sample Name: ICSA01 Acquired: 10/15/2025 14:39:54 Type: Unk
Method: 6010-200.7 NEW(v285) 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	**.0069718**	**.0145492**	**.0048097**	**.0075645**	**-.002372**	**256.4453**	**.0009795**
Stddev	.0009700	.0020574	.0004998	.0057497	.002364	.9677	.0006999
%RSD	13.91351	14.14107	10.39069	76.00903	99.66391	.3773338	71.45394
#1	.0058962	.0162848	.0053621	.0142030	-.002104	255.4542	.0015400
#2	.0077802	.0150863	.0046778	.0043264	-.004858	256.4940	.0001950
#3	.0072391	.0122765	.0043891	.0041641	-.000153	257.3877	.0012035

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0009695**	**.0016281**	**244.9008**	**.0505685**	**.0021698**	**.0148471**	**106.7268**
Stddev	.0000655	.0000714	1.0960	.0002519	.0001647	.0005422	.1645
%RSD	6.759725	4.384316	.4475171	.4980387	7.589200	3.652048	.1541595
#1	.0010284	.0017052	243.6735	.0504661	.0023346	.0146764	106.6573
#2	.0009813	.0016148	245.2473	.0508554	.0021695	.0154542	106.6085
#3	.0008989	.0015643	245.7817	.0503840	.0020053	.0144108	106.9147

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0068161**	**258.3098**	**.0034891**	**-.006586**	**.0435313**	**.0012752**	**.0041818**
Stddev	.0007648	.8920	.0000873	.000280	.0167190	.0007166	.0001546
%RSD	11.22040	.3453199	2.500695	4.258105	38.40692	56.19641	3.697053
#1	.0059552	257.2888	.0035693	-.006293	.0249317	.0009969	.0040200
#2	.0070763	258.7027	.0033962	-.006613	.0573108	.0020893	.0041975
#3	.0074169	258.9380	.0035017	-.006851	.0483513	.0007396	.0043280

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0224820**	**.0577696**	**.0002457**	**-.000804**	**-.004123**	**.0065040**	**.0047755**
Stddev	.0198411	.0011599	.0002549	.000211	.000830	.0045655	.0013452
%RSD	88.25326	2.007746	103.7540	26.27195	20.14446	70.19464	28.16839
#1	.0451343	.0590234	.0005166	-.000608	-.004818	.0116152	.0050542
#2	.0141262	.0567350	.0002099	-.001027	-.004347	.0050670	.0033128
#3	.0081855	.0575504	.0000106	-.000775	-.003203	.0028300	.0059594

Reviewed By:jaswal
On:10/17/2025 1:18:42 PM
Inst Id :P4
LB :LB137561

Sample Name: ICSA01 Acquired: 10/15/2025 14:39:54 Type: Unk
Method: 6010-200.7 NEW(v285) 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	.0128201	F -.028501	.0008387
Stddev	.0009714	.002052	.0006836
%RSD	7.577384	7.199870	81.51112
#1	.0121580	-.029402	.0000499
#2	.0139352	-.029949	.0012603
#3	.0123669	-.026153	.0012057

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5409.993	83823.91	7111.926	4099.295	5879.256
Stddev	8.522	17.46	32.148	13.055	2.256
%RSD	.1575193	.0208247	.4520336	.3184722	.0383770
#1	5408.350	83811.65	7148.855	4104.416	5878.519
#2	5402.412	83843.89	7096.735	4084.456	5877.460
#3	5419.217	83816.18	7090.188	4109.014	5881.789

Reviewed By:jaswal
On:10/17/2025 1:18:42 PM
Inst Id :P4
LB :LB137561

Sample Name: ICSAB01 Acquired: 10/15/2025 14:52:28 Type: Unk
Method: 6010-200.7 NEW(v285) 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	**.0974933**	**.1145708**	**.0445270**	**.0487036**	**.5481488**	**225.8998**
Stddev	.0034342	.0049985	.0013981	.0038362	.0038121	.5538
%RSD	3.522552	4.362793	3.139831	7.876596	.6954551	.2451599
#1	.0936969	.1197900	.0433663	.0463018	.5437966	225.2617
#2	.0983994	.1140954	.0441357	.0466812	.5508959	226.1835
#3	.1003837	.1098269	.0460791	.0531278	.5497538	226.2543

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4450556**	**.4643568**	**.9141579**	**214.6482**	**.5037372**	**.4610947**
Stddev	.0032187	.0047333	.0006507	.7817	.0006503	.0002629
%RSD	.7232197	1.019318	.0711746	.3641862	.1291045	.0570172
#1	.4414841	.4610044	.9149030	213.7461	.5029969	.4609937
#2	.4459504	.4622946	.9138688	215.0711	.5042163	.4613932
#3	.4477323	.4697713	.9137019	215.1274	.5039984	.4608973

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4522409**	**91.08291**	**.4471577**	**227.6132**	**.9178375**	**.1842840**
Stddev	.0003895	.26040	.0036693	.4055	.0010774	.0004411
%RSD	.0861249	.2858974	.8205911	.1781356	.1173835	.2393805
#1	.4519692	90.94010	.4432750	227.1960	.9167385	.1847899
#2	.4526871	91.38347	.4476301	227.6377	.9188918	.1840823
#3	.4520663	90.92515	.4505679	228.0058	.9178821	.1839797

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0298246**	**.4372716**	**.9541284**	**-.032168**	**.9040695**	**.9012820**
Stddev	.0009276	.0017059	.0021598	.021605	.0063367	.0012159
%RSD	3.110317	.3901217	.2263610	67.16429	.7009131	.1349128
#1	.0292396	.4391748	.9516970	-.052879	.8988933	.9015644
#2	.0293400	.4367597	.9548635	-.009768	.9021787	.8999497
#3	.0308942	.4358803	.9558246	-.033857	.9111364	.9023319

Reviewed By:jaswal
On:10/17/2025 1:18:42 PM
Inst Id :P4
LB :LB137561

Sample Name: ICSAB01 Acquired: 10/15/2025 14:52:28 Type: Unk
Method: 6010-200.7 NEW(v285) 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	.9209400	.8869833	.9237504	1.118639	F 1.256433	.8728094
Stddev	.0034088	.0022926	.0065232	.003683	.014391	.0056673
%RSD	.3701481	.2584715	.7061598	.3292612	1.145418	.6493226
#1	.9246318	.8849723	.9295077	1.118672	1.269623	.8663758
#2	.9179117	.8864977	.9250778	1.114939	1.241084	.8749891
#3	.9202766	.8894797	.9166656	1.122305	1.258593	.8770632

Elem	Sr4077
Units	ppm
Avg	.9191371
Stddev	.0076627
%RSD	.8336803
#1	.9117951
#2	.9185319
#3	.9270845

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5373.402	87376.80	7291.898	4260.788	5864.781
Stddev	2.408	245.84	75.209	10.153	6.328
%RSD	.0448051	.2813597	1.031404	.2382825	.1078982
#1	5373.194	87646.42	7366.432	4271.968	5860.479
#2	5371.105	87165.06	7293.231	4258.251	5861.816
#3	5375.907	87318.91	7216.031	4252.143	5872.047

Reviewed By:jaswal
On:10/17/2025 1:18:42 PM
Inst Id :P4
LB :LB137561

Sample Name: ICSA01DLX20 Acquired: 10/15/2025 14:56:31 Type: Unk
Method: 6010-200.7 NEW(v285) 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	**-.000062**	**.0015991**	**.0007457**	**-.001059**	**-.001201**	**12.48930**	**-.001969**
Stddev	.001968	.0021846	.0018501	.002256	.001537	.02689	.000485
%RSD	3169.376	136.6187	248.0997	213.0898	127.9669	.2153394	24.60368
#1	.002099	.0037953	.0028044	.000942	.000566	12.46612	-.002134
#2	-.001753	.0015758	.0002110	-.000615	-.002229	12.48298	-.002350
#3	-.000532	-.000574	-.000778	-.003503	-.001940	12.51879	-.001424

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000292**	**.0000873**	**12.40609**	**.0024205**	**.0001223**	**.0007950**	**5.016595**
Stddev	.0000449	.0000542	.03325	.0001158	.0001169	.0001040	.024270
%RSD	153.5448	62.11872	.2679999	4.784704	95.56005	13.08680	.4838004
#1	-.000017	.0001401	12.36941	.0022909	.0002572	.0008673	4.999270
#2	.000073	.0000317	12.41461	.0024564	.0000506	.0008419	5.044334
#3	.000031	.0000900	12.43425	.0025141	.0000592	.0006758	5.006179

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0005126**	**12.76186**	**.0001831**	**-.000200**	**-.027434**	**-.001260**	**.0004031**
Stddev	.0000428	.05967	.0001086	.000425	.012668	.001751	.0000869
%RSD	8.349041	.4675704	59.29408	212.3007	46.17682	138.9155	21.56410
#1	.0005424	12.70627	.0001446	-.000661	-.035794	-.001249	.0003501
#2	.0005319	12.75441	.0000990	.000175	-.033649	.000485	.0005035
#3	.0004636	12.82491	.0003056	-.000114	-.012859	-.003017	.0003559

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.088129**	**-.007168**	**.0001790**	**-.000757**	**.0017879**	**.0055365**	**.0003195**
Stddev	.034051	.000378	.0001730	.000093	.0006084	.0134878	.0006453
%RSD	38.63788	5.278235	96.62911	12.30755	34.03151	243.6144	201.9595
#1	-.100274	-.007228	.0001778	-.000754	.0019668	.0065779	-.000151
#2	-.049670	-.006764	.0003525	-.000852	.0022868	.0184735	.000054
#3	-.114441	-.007513	.0000066	-.000666	.0011100	-.008442	.001055

Reviewed By:jaswal
On:10/17/2025 1:18:42 PM
Inst Id :P4
LB :LB137561

Sample Name: ICSA01DLX20 Acquired: 10/15/2025 14:56:31 Type: Unk
Method: 6010-200.7 NEW(v285) 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	.0061560	-.003324	.0002744
Stddev	.0013724	.002055	.0000934
%RSD	22.29270	61.81870	34.02563
#1	.0076279	-.005649	.0003530
#2	.0049116	-.001753	.0001712
#3	.0059287	-.002570	.0002990

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5842.773	97078.02	7504.998	4654.396	7210.993
Stddev	5.271	313.64	47.850	19.907	3.023
%RSD	.0902182	.3230802	.6375736	.4277036	.0419190
#1	5837.585	97101.53	7515.100	4674.809	7209.935
#2	5848.124	96753.29	7546.990	4635.037	7208.642
#3	5842.612	97379.24	7452.904	4653.342	7214.403

Reviewed By:jaswal
On:10/17/2025 1:18:42 PM
Inst Id :P4
LB :LB137561

Sample Name: ICSAB01DLX20 Acquired: 10/15/2025 15:00:48 Type: Unk
Method: 6010-200.7 NEW(v285) 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	.0068711	.0086600	.0024295	.0018190	.0295558	12.68707	.0254518
Stddev	.0022403	.0018725	.0002401	.0008819	.0014046	.03636	.0015974
%RSD	32.60493	21.62288	9.881185	48.48260	4.752374	.2866040	6.276278
#1	.0063731	.0075732	.0026163	.0008090	.0281475	12.70178	.0238886
#2	.0049217	.0075845	.0025135	.0022117	.0309566	12.71378	.0270813
#3	.0093186	.0108222	.0021588	.0024364	.0295632	12.64566	.0253854

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0268863	.0487640	12.53527	.0285327	.0246431	.0273894	4.944233
Stddev	.0002841	.0000819	.04011	.0002042	.0000711	.0004056	.066829
%RSD	1.056548	.1678861	.3199876	.7156938	.2883906	1.480769	1.351654
#1	.0267805	.0487599	12.54099	.0287097	.0247232	.0278242	5.012195
#2	.0272081	.0486843	12.57221	.0285792	.0245876	.0270214	4.878598
#3	.0266704	.0488479	12.49260	.0283093	.0246185	.0273224	4.941906

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0263534	13.01644	.0496239	.0091413	-.006408	.0231680	.0533971
Stddev	.0006025	.05420	.0003982	.0001903	.022670	.0016932	.0003494
%RSD	2.286324	.4163736	.8024768	2.081918	353.7761	7.308400	.6543977
#1	.0270420	12.97307	.0495280	.0089262	-.023424	.0223871	.0535474
#2	.0259233	13.07719	.0492824	.0092103	.019327	.0251107	.0529977
#3	.0260948	12.99905	.0500614	.0092875	-.015127	.0220061	.0536462

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.124295	.0444000	.0516869	.0502335	.0529952	.0466435	.0013761
Stddev	.027750	.0014694	.0002567	.0006479	.0018078	.0072998	.0017747
%RSD	22.32581	3.309480	.4967113	1.289813	3.411226	15.65013	128.9679
#1	-.153815	.0428213	.0516578	.0495158	.0510433	.0550177	-.000650
#2	-.120324	.0457279	.0514460	.0507754	.0533304	.0416248	.002654
#3	-.098744	.0446508	.0519570	.0504094	.0546120	.0432880	.002124

Reviewed By:jaswal
On:10/17/2025 1:18:42 PM
Inst Id :P4
LB :LB137561

Sample Name: ICSAB01DLX20 Acquired: 10/15/2025 15:00:48 Type: Unk
Method: 6010-200.7 NEW(v285) 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	.0063655	-.001230	.0004676
Stddev	.0037571	.000932	.0000627
%RSD	59.02230	75.76646	13.39956
#1	.0066022	-.001571	.0005394
#2	.0099986	-.001944	.0004243
#3	.0024957	-.000176	.0004389

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5802.443	95387.56	7208.067	4595.368	7151.033
Stddev	4.723	318.16	43.170	13.404	5.572
%RSD	.0813991	.3335402	.5989163	.2916807	.0779178
#1	5801.653	95177.48	7219.433	4594.752	7145.435
#2	5807.511	95753.61	7160.351	4609.070	7151.086
#3	5798.164	95231.60	7244.417	4582.284	7156.578

Reviewed By:jaswal
On:10/17/2025 1:18:42 PM
Inst Id :P4
LB :LB137561

Sample Name: CCV01 Acquired: 10/15/2025 15:09:15 Type: Unk
Method: 6010-200.7 NEW(v285) 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	**5.001670**	**4.829121**	**4.951293**	**5.047986**	**5.028293**	**9.869678**	**9.936153**
Stddev	.006759	.298715	.005694	.008562	.009296	.037181	.038732
%RSD	.1351299	6.185701	.1149933	.1696197	.1848642	.3767175	.3898135
#1	5.000543	4.702285	4.957837	5.042955	5.029420	9.837668	9.976000
#2	5.008921	5.170325	4.947467	5.057872	5.018486	9.910461	9.933817
#3	4.995545	4.614753	4.948577	5.043130	5.036974	9.860904	9.898641

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2504034**	**2.481362**	**24.93660**	**1.006671**	**2.482825**	**1.255700**	**5.017896**
Stddev	.0019873	.002537	.05820	.002292	.002905	.001826	.052773
%RSD	.7936363	.1022569	.2333815	.2277106	.1170009	.1454376	1.051698
#1	.2481172	2.484039	24.88236	1.006883	2.485975	1.257494	5.073188
#2	.2513751	2.481053	24.99808	1.008850	2.480253	1.253843	5.012433
#3	.2517179	2.478993	24.92936	1.004281	2.482246	1.255762	4.968067

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.492267**	**24.74898**	**2.494356**	**1.252708**	**24.39227**	**2.482415**	**2.539013**
Stddev	.004012	.07890	.001475	.000642	.29191	.010517	.003687
%RSD	.1609667	.3188097	.0591399	.0512361	1.196726	.4236586	.1452171
#1	2.496847	24.65832	2.495972	1.252369	24.71321	2.487755	2.537483
#2	2.490578	24.78647	2.494015	1.252306	24.32100	2.489192	2.536337
#3	2.489375	24.80215	2.493081	1.253448	24.14260	2.470300	2.543219

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**24.89025**	**4.994247**	**5.000128**	**4.968506**	**4.970423**	**4.969065**	**5.121412**
Stddev	.19084	.044015	.003375	.016239	.006644	.023896	.032613
%RSD	.7667449	.8813083	.0675065	.3268428	.1336780	.4808963	.6368017
#1	25.06602	4.944171	5.003080	4.973560	4.977495	4.989054	5.116683
#2	24.91748	5.011766	5.000856	4.981617	4.964311	4.975545	5.156131
#3	24.68725	5.026806	4.996448	4.950341	4.969463	4.942598	5.091420

Reviewed By:jaswal
On:10/17/2025 1:18:42 PM
Inst Id :P4
LB :LB137561

Sample Name: CCV01 Acquired: 10/15/2025 15:09:15 Type: Unk
Method: 6010-200.7 NEW(v285) 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	**4.966588**	**4.835439**	**4.961325**
Stddev	.062538	.013224	.061475
%RSD	1.259169	.2734751	1.239078
#1	4.955981	4.846804	4.946335
#2	5.033751	4.838589	4.908731
#3	4.910032	4.820925	5.028908

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5673.612**	**93040.41**	**7255.563**	**4496.842**	**6574.840**
Stddev	11.568	124.24	45.822	11.866	15.055
%RSD	.2038992	.1335363	.6315419	.2638642	.2289795
#1	5660.542	92924.57	7305.138	4483.741	6558.347
#2	5682.539	93171.63	7246.789	4499.918	6578.329
#3	5677.753	93025.03	7214.764	4506.866	6587.844

Reviewed By:jaswal
On:10/17/2025 1:18:42 PM
Inst Id :P4
LB :LB137561

Sample Name: CCB01 Acquired: 10/15/2025 15:13:20 Type: Unk
Method: 6010-200.7 NEW(v285) 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	**.0011286**	**.0027931**	**.0005614**	**-.000439**	**-.001305**	**-.011362**	**-.000004**
Stddev	.0017444	.0026530	.0006752	.002300	.001025	.009779	.003074
%RSD	154.5652	94.98339	120.2729	523.9325	78.52031	86.06663	77202.57
#1	.0019283	.0031563	-.000128	-.002976	-.001760	-.002518	.002817
#2	-.000872	.0052458	.001222	.000148	-.002024	-.021865	-.003280
#3	.002330	-.000023	.000590	.001511	-.000132	-.009705	.000452

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000001**	**-.000020**	**.0233569**	**-.000030**	**-.000042**	**.0002474**	**.0001050**
Stddev	.000024	.000020	.0160953	.000142	.000100	.0002859	.0035195
%RSD	1794.083	101.1727	68.91003	478.8873	239.4527	115.5876	3352.282
#1	-.000010	-.000042	.0417786	.000129	-.000104	-.000083	.0036743
#2	.000026	-.000009	.0162770	-.000074	-.000095	.000407	-.003363
#3	-.000021	-.000007	.0120153	-.000144	.000073	.000418	.000003

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000145**	**.0090953**	**-.000001**	**-.000193**	**-.006840**	**-.001968**	**-.000026**
Stddev	.000263	.0256556	.000132	.000227	.015162	.001379	.000115
%RSD	181.1388	282.0753	8980.694	117.5139	221.6619	70.04850	444.5949
#1	-.000415	.0237756	.000082	-.000426	-.023100	-.003210	.000098
#2	.000111	-.020529	-.000154	.000028	-.004331	-.000485	-.000045
#3	-.000132	.024039	.000067	-.000182	.006911	-.002209	-.000130

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.033164**	**.0002365**	**.0003342**	**-.000391**	**.0015447**	**-.010328**	**.0004599**
Stddev	.032366	.0007765	.0000959	.000544	.0021690	.008741	.0008306
%RSD	97.59440	328.2799	28.68708	139.1049	140.4196	84.63238	180.6066
#1	-.003881	.0008923	.0002388	-.000755	-.000534	-.011338	-.000186
#2	-.027695	.0004382	.0003331	-.000651	.001375	-.001126	.000169
#3	-.067916	-.000621	.0004305	.000234	.003794	-.018521	.001397

Reviewed By:jaswal
On:10/17/2025 1:18:42 PM
Inst Id :P4
LB :LB137561

Sample Name: CCB01 Acquired: 10/15/2025 15:13:20 Type: Unk
Method: 6010-200.7 NEW(v285) 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	.0046010	.0004115	.0004966
Stddev	.0026993	.0013560	.0006761
%RSD	58.66821	329.5616	136.1244
#1	.0052441	.0014297	.0012773
#2	.0016382	.0009325	.0001096
#3	.0069206	-.001128	.0001031

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5952.890	98603.72	7553.458	4767.842	7743.568
Stddev	9.126	246.36	9.063	19.579	10.464
%RSD	.1533021	.2498534	.1199862	.4106480	.1351360
#1	5962.280	98322.83	7545.131	4767.033	7754.394
#2	5952.337	98783.14	7563.111	4787.812	7742.802
#3	5944.054	98705.20	7552.132	4748.679	7733.508

Reviewed By:jaswal
On:10/17/2025 1:18:42 PM
Inst Id :P4
LB :LB137561

Sample Name: LR-2 Acquired: 10/15/2025 15:22:13 Type: Unk
Method: 6010-200.7 NEW(v285) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1226963**	**-.024353**	**.1160497**	**.1039488**	**-.162566**	**1927.305**	**.0225046**
Stddev	.0067777	.000320	.0025757	.0028196	.000825	20.647	.0004541
%RSD	5.523972	1.316071	2.219450	2.712488	.5075842	1.071301	2.017802
#1	.1148964	-.024667	.1189713	.1026619	-.162250	1950.596	.0220941
#2	.1260415	-.024365	.1150708	.1020022	-.161945	1920.073	.0229924
#3	.1271511	-.024027	.1141069	.1071822	-.163502	1911.248	.0224274

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0248021**	**.0532059**	**7.112420**	**-.257376**	**.0877691**	**.3548096**	**2705.654**
Stddev	.0000686	.0003997	.020026	.001132	.0015106	.0136064	7.031
%RSD	.2766143	.7512059	.2815571	.4399409	1.721051	3.834855	.2598563
#1	.0247843	.0536515	7.104340	-.257436	.0874863	.3563588	2706.454
#2	.0248778	.0528791	7.097697	-.256215	.0864199	.3675751	2698.258
#3	.0247441	.0530871	7.135223	-.258478	.0894011	.3404949	2712.251

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.240255**	**1.087902**	**.0422022**	**^ *****	**3.684686**	**.0614497**	**.0821119**
Stddev	.001916	.023981	.0002768	-----	.035520	.0017319	.0016996
%RSD	.7972984	2.204295	.6558923	-----	.9639961	2.818419	2.069804
#1	-.238766	1.097370	.0418865	^ -----	3.719335	.0623620	.0819251
#2	-.242416	1.105702	.0423171	^ -----	3.648354	.0594524	.0838971
#3	-.239583	1.060632	.0424031	^ -----	3.686368	.0625348	.0805134

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1927.452**	**^ *****	**-.016630**	**.0203867**	**.0050901**	**.4900922**	**.0984642**
Stddev	9.154	-----	.000614	.0017539	.0006524	.0006189	.0042390
%RSD	.4749262	-----	3.691307	8.602926	12.81789	.1262772	4.305102
#1	1938.007	^ -----	-.017326	.0208444	.0046599	.4907908	.1030431
#2	1922.660	^ -----	-.016166	.0184494	.0047696	.4898730	.0976726
#3	1921.688	^ -----	-.016397	.0218664	.0058408	.4896127	.0946768

Reviewed By:jaswal
On:10/17/2025 1:18:42 PM
Inst Id :P4
LB :LB137561

Sample Name: LR-2 Acquired: 10/15/2025 15:22:13 Type: Unk
Method: 6010-200.7 NEW(v285) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	-.416904	.2904262	-2.59392
Stddev	.015745	.0010548	.00683
%RSD	3.776754	.3631952	.2634204
#1	-.408540	.2897575	-2.59466
#2	-.407106	.2898789	-2.58675
#3	-.435067	.2916421	-2.60036

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4953.957	78037.05	7234.259	3793.277	4392.640
Stddev	13.038	135.90	41.523	18.276	7.718
%RSD	.2631925	.1741502	.5739799	.4817891	.1757125
#1	4946.732	77964.63	7226.119	3800.109	4386.579
#2	4946.131	78193.83	7197.408	3772.570	4390.012
#3	4969.009	77952.70	7279.249	3807.153	4401.329

Reviewed By:jaswal
On:10/17/2025 1:18:42 PM
Inst Id :P4
LB :LB137561

Sample Name: LR-3 Acquired: 10/15/2025 16:06:47 Type: Unk
Method: 6010-200.7 NEW(v285) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0955523**	**.0291525**	**235.8592**	**-.001057**	**.1301149**	**.0588248**	**-.003339**
Stddev	.0022903	.0063260	1.0476	.001088	.0017154	.0072181	.001023
%RSD	2.396876	21.69982	.4441831	102.9432	1.318399	12.27051	30.63317
#1	.0931132	.0221668	234.6563	.000186	.1294087	.0611406	-.003602
#2	.0976569	.0344944	236.3498	-.001838	.1320707	.0507331	-.002210
#3	.0958867	.0307963	236.5715	-.001518	.1288652	.0646009	-.004204

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.004267**	**-.001100**	**.2445971**	**24.78023**	**.0061359**	**50.47894**	**.0986859**
Stddev	.000058	.000054	.0129957	.11901	.0000999	.26647	.0034032
%RSD	1.354767	4.874594	5.313090	.4802566	1.628539	.5278797	3.448510
#1	-.004201	-.001156	.2488136	24.66471	.0062443	50.31686	.0967149
#2	-.004293	-.001049	.2549608	24.77354	.0061157	50.78648	.0967273
#3	-.004308	-.001095	.2300167	24.90245	.0060476	50.33348	.1026156

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**50.25051**	**-.206282**	**24.65609**	**.0037488**	**1.371781**	**-.027153**	**27.78599**
Stddev	.17038	.013939	.10806	.0002802	.088440	.004722	.19331
%RSD	.3390675	6.757475	.4382749	7.474461	6.447116	17.39051	.6957127
#1	50.19868	-.222338	24.61123	.0038063	1.468638	-.027062	27.93047
#2	50.11205	-.199230	24.77935	.0039958	1.351385	-.022478	27.86111
#3	50.44078	-.197277	24.57768	.0034443	1.295321	-.031921	27.56640

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.6641326**	**-.008643**	**-.014185**	**-.009318**	**-.041477**	**-.132999**	**.1905159**
Stddev	.0146196	.000281	.000430	.000312	.001843	.005246	.0028683
%RSD	2.201300	3.246181	3.029277	3.343976	4.442598	3.944225	1.505551
#1	.6777739	-.008505	-.014574	-.009531	-.041366	-.139049	.1938251
#2	.6486999	-.008457	-.014256	-.008960	-.039692	-.129722	.1889811
#3	.6659240	-.008965	-.013724	-.009462	-.043372	-.130226	.1887415

Reviewed By:jaswal
On:10/17/2025 1:18:42 PM
Inst Id :P4
LB :LB137561

Sample Name: LR-3 Acquired: 10/15/2025 16:06:47 Type: Unk
Method: 6010-200.7 NEW(v285) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0571606	.0124664	.0005912
Stddev	.0029704	.0013367	.0000502
%RSD	5.196540	10.72241	8.487267
#1	.0605448	.0136548	.0006471
#2	.0559516	.0127251	.0005501
#3	.0549853	.0110192	.0005763

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5744.036	103538.3	7872.301	4743.150	7630.426
Stddev	29.097	572.7	27.017	8.119	32.516
%RSD	.5065545	.5531620	.3431963	.1711649	.4261375
#1	5761.552	104115.5	7900.403	4739.553	7642.860
#2	5710.448	103529.1	7869.983	4752.446	7593.528
#3	5760.107	102970.2	7846.518	4737.452	7654.891

Reviewed By:jaswal
On:10/17/2025 1:18:42 PM
Inst Id :P4
LB :LB137561

Sample Name: LR-1 Acquired: 10/15/2025 16:12:35 Type: Unk
Method: 6010-200.7 NEW(v285) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.003853	.0069370	.0190412	-.015125	.0167113	.3211099	.0137595
Stddev	.004819	.0066536	.0020603	.004869	.0028715	.0274503	.0007711
%RSD	125.0908	95.91361	10.82015	32.19372	17.18324	8.548580	5.604213
#1	-.001191	.0139461	.0166685	-.020223	.0197988	.3507306	.0142811
#2	-.000951	.0061573	.0203781	-.014632	.0141205	.2965280	.0128737
#3	-.009416	.0007077	.0200768	-.010521	.0162145	.3160710	.0141236

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0007060	.0001057	2196.276	.0245123	.0054468	.0076251	.5864778
Stddev	.0000321	.0000786	38.314	.0002298	.0003381	.0003326	.0191139
%RSD	4.541942	74.36239	1.744514	.9372776	6.206341	4.362636	3.259094
#1	.0007421	.0000532	2234.859	.0244218	.0050645	.0080058	.5648587
#2	.0006808	.0000678	2195.734	.0247735	.0057061	.0074786	.5934400
#3	.0006950	.0001960	2158.236	.0243415	.0055698	.0073907	.6011346

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0239865	2108.036	.0203055	-.002519	2283.543	.0128749	.0338850
Stddev	.0005615	7.675	.0006686	.000787	32.986	.0003758	.0001243
%RSD	2.340891	.3640637	3.292881	31.25667	1.444516	2.919085	.3668909
#1	.0242694	2116.083	.0200613	-.003425	2245.920	.0130031	.0339780
#2	.0233399	2100.798	.0197933	-.002137	2307.499	.0124517	.0339331
#3	.0243503	2107.227	.0210619	-.001996	2297.210	.0131698	.0337438

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.672547	-.001173	.0052803	-.016619	-.096628	-.047033	.0095408
Stddev	.683172	.001217	.0003905	.001039	.002400	.022368	.0044691
%RSD	12.04347	103.7043	7.395404	6.253931	2.483667	47.55894	46.84209
#1	4.919510	-.000435	.0053228	-.016621	-.093863	-.052455	.0053313
#2	5.845535	-.002578	.0056478	-.017658	-.097856	-.022452	.0090603
#3	6.252597	-.000507	.0048702	-.015579	-.098166	-.066191	.0142306

Reviewed By:jaswal
On:10/17/2025 1:18:42 PM
Inst Id :P4
LB :LB137561

Sample Name: LR-1 Acquired: 10/15/2025 16:12:35 Type: Unk
Method: 6010-200.7 NEW(v285) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.2213340	-.335958	.0554274
Stddev	.0021914	.007731	.0002036
%RSD	.9901005	2.301204	.3673999
#1	.2237147	-.343573	.0551925
#2	.2194009	-.336187	.0555365
#3	.2208864	-.328116	.0555533

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4092.151	69052.98	6665.999	3268.907	4297.419
Stddev	17.606	205.39	104.386	10.408	22.258
%RSD	.4302424	.2974403	1.565944	.3183929	.5179377
#1	4074.014	69289.69	6546.039	3277.403	4273.636
#2	4109.173	68947.31	6736.161	3272.022	4317.749
#3	4093.267	68921.94	6715.797	3257.298	4300.872

Reviewed By:jaswal
On:10/17/2025 1:18:42 PM
Inst Id :P4
LB :LB137561

Sample Name: CCV02 Acquired: 10/15/2025 16:28:03 Type: Unk
Method: 6010-200.7 NEW(v285) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCV02 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.812554**	**4.784129**	**4.685621**	**4.909116**	**4.873815**	**9.261493**
Stddev	.004820	.155353	.003191	.013110	.010645	.035222
%RSD	.1001552	3.247262	.0680973	.2670465	.2184192	.3803077
#1	4.808242	4.945798	4.689167	4.922430	4.876481	9.220822
#2	4.817757	4.770613	4.684713	4.896221	4.862090	9.281941
#3	4.811661	4.635975	4.682982	4.908696	4.882874	9.281716

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**9.241776**	**.2306907**	**2.335991**	**23.27018**	**.9477464**	**2.341099**
Stddev	.016259	.0027231	.001456	.04976	.0009373	.002313
%RSD	.1759299	1.180398	.0623397	.2138460	.0988925	.0988107
#1	9.225173	.2285388	2.334510	23.21457	.9484415	2.338601
#2	9.257668	.2297812	2.337422	23.31052	.9466805	2.341530
#3	9.242487	.2337521	2.336041	23.28544	.9481172	2.343166

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.192562**	**4.815618**	**2.323180**	**23.15950**	**2.347731**	**1.202375**
Stddev	.002668	.040380	.011556	.05242	.002971	.001410
%RSD	.2237492	.8385199	.4974228	.2263576	.1265648	.1173015
#1	1.190193	4.819082	2.310751	23.10428	2.344304	1.201755
#2	1.192040	4.854154	2.333599	23.20859	2.349599	1.201381
#3	1.195453	4.773617	2.325189	23.16563	2.349289	1.203989

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**23.38154**	**2.338138**	**2.359836**	**23.73501**	**4.663673**	**4.782630**
Stddev	.22897	.007126	.005548	.21640	.052160	.002014
%RSD	.9792879	.3047622	.2351128	.9117370	1.118428	.0421035
#1	23.52239	2.330881	2.353477	23.87766	4.619141	4.783946
#2	23.50490	2.345125	2.362340	23.84137	4.650820	4.783633
#3	23.11734	2.338410	2.363691	23.48601	4.721058	4.780312

Reviewed By:jaswal
On:10/17/2025 1:18:42 PM
Inst Id :P4
LB :LB137561

Sample Name: CCV02 Acquired: 10/15/2025 16:28:03 Type: Unk
Method: 6010-200.7 NEW(v285) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCV02 Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.696173**	**4.660965**	**4.813616**	**4.818585**	**4.770265**	F **4.400138**
Stddev	.007688	.015448	.021374	.009083	.019996	.005306
%RSD	.1637114	.3314353	.4440308	.1885011	.4191889	.1205892
#1	4.701438	4.648772	4.821060	4.828208	4.789166	4.396249
#2	4.699731	4.678337	4.830273	4.817386	4.772300	4.406183
#3	4.687350	4.655784	4.789516	4.810160	4.749329	4.397982

Elem	Sr4077
Units	ppm
Avg	**4.652760**
Stddev	.058191
%RSD	1.250670
#1	4.716585
#2	4.602656
#3	4.639038

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**6046.899**	**100622.5**	**8090.369**	**4781.363**	**7064.382**
Stddev	9.270	170.4	92.872	18.802	10.675
%RSD	.1533087	.1693455	1.147930	.3932446	.1511064
#1	6057.113	100765.0	8181.259	4793.685	7076.190
#2	6044.568	100433.8	8094.211	4790.682	7055.415
#3	6039.017	100668.8	7995.635	4759.721	7061.540

Reviewed By:jaswal
On:10/17/2025 1:18:42 PM
Inst Id :P4
LB :LB137561

Sample Name: CCB02 Acquired: 10/15/2025 16:32:08 Type: Unk
Method: 6010-200.7 NEW(v285) 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	**-.000503**	**.0013878**	**.0000118**	**-.002014**	**-.000828**	**-.004150**	**-.004380**
Stddev	.001692	.0017629	.0004104	.000844	.000848	.016868	.000580
%RSD	336.3325	127.0289	3481.242	41.90728	102.3389	406.4533	13.25365
#1	-.001332	.0007838	-.000108	-.002895	-.000218	.011069	-.005045
#2	-.001620	.0033733	-.000326	-.001212	-.000471	-.022286	-.004116
#3	.001443	.0000063	.000469	-.001936	-.001796	-.001234	-.003978

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000002**	**.0000985**	**.0289748**	**-.000229**	**-.000039**	**.0001629**	**-.004284**
Stddev	.0000133	.0000135	.0036261	.000277	.000064	.0001404	.007949
%RSD	6435.689	13.69797	12.51450	120.7247	163.2915	86.14258	185.5597
#1	.0000135	.0001026	.0247878	-.000011	-.000049	.0000506	-.010690
#2	.0000002	.0000834	.0310692	-.000540	.000029	.0001179	.004612
#3	-.000013	.0001095	.0310673	-.000137	-.000099	.0003203	-.006773

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0001696**	**-.002139**	**-.000048**	**.0001216**	**.3670544**	**-.002166**	**-.000085**
Stddev	.0005698	.002937	.000193	.0003135	.0133660	.001581	.000077
%RSD	336.0227	137.3514	401.7223	257.8047	3.641424	72.98086	90.55729
#1	.0008084	.000596	.000173	.0004817	.3693037	-.001601	-.000021
#2	-.000286	-.005243	-.000133	-.000026	.3791530	-.000946	-.000171
#3	-.000014	-.001769	-.000184	-.000091	.3527064	-.003953	-.000065

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1365937**	**-.002694**	**.0002266**	**-.002177**	**.0009805**	**.0010287**	**.0009870**
Stddev	.0544677	.000528	.0002055	.000242	.0023820	.0072343	.0003080
%RSD	39.87572	19.59026	90.69562	11.09627	242.9244	703.2532	31.20440
#1	.1959103	-.002513	-.000002	-.002444	.0031200	.0080639	.0008616
#2	.0888277	-.003289	.000285	-.002111	-.001586	.0014117	.0007616
#3	.1250430	-.002281	.000397	-.001975	.001408	-.006390	.0013380

Reviewed By:jaswal
On:10/17/2025 1:18:42 PM
Inst Id :P4
LB :LB137561

Sample Name: CCB02 Acquired: 10/15/2025 16:32:08 Type: Unk
Method: 6010-200.7 NEW(v285) 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	.0050503	.0055639	.0000030
Stddev	.0019665	.0007356	.0000190
%RSD	38.93767	13.22122	639.2825
#1	.0058584	.0064117	.0000010
#2	.0064840	.0051839	.0000228
#3	.0028085	.0050960	-.000015

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6211.237	103621.2	7900.263	4952.656	8107.141
Stddev	.729	564.1	33.756	33.046	2.870
%RSD	.0117433	.5443995	.4272801	.6672453	.0354047
#1	6211.601	104245.0	7931.492	4989.012	8106.169
#2	6210.397	103147.0	7904.850	4924.442	8110.371
#3	6211.712	103471.7	7864.448	4944.513	8104.882

Reviewed By:jaswal
On:10/17/2025 1:18:42 PM
Inst Id :P4
LB :LB137561

Sample Name: PB170089BL Acquired: 10/15/2025 16:36:27 Type: Unk
Method: 6010-200.7 NEW(v285) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0028525**	**-.000475**	**.0003344**	**-.003162**	**-.002153**	**-.002868**	**-.005373**
Stddev	.0008186	.001168	.0008098	.001330	.000709	.006829	.001801
%RSD	28.69584	246.0364	242.1475	42.07595	32.93443	238.1336	33.51639
#1	.0023977	-.000364	-.000379	-.001697	-.002861	.004152	-.006420
#2	.0037975	-.001694	.000167	-.004294	-.001443	-.009489	-.006406
#3	.0023624	.000634	.001215	-.003494	-.002155	-.003267	-.003294

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000018**	**.0000703**	**.0217213**	**.0000498**	**.0000688**	**.0001752**	**-.009134**
Stddev	.0000374	.0000118	.0100919	.0003207	.0000998	.0003761	.006036
%RSD	2045.521	16.76528	46.46091	644.5382	145.0905	214.6270	66.08165
#1	-.000016	.0000746	.0290121	.0001037	.0001454	-.000255	-.016102
#2	.000045	.0000794	.0102032	.0003401	.0001051	.000440	-.005505
#3	-.000023	.0000570	.0259486	-.000295	-.000044	.000341	-.005796

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0005288**	**-.007055**	**.0000552**	**-.000162**	**.3124997**	**-.000603**	**-.000129**
Stddev	.0004319	.018928	.0001556	.000091	.0102873	.001286	.000090
%RSD	81.66523	268.3046	282.1008	55.98303	3.291946	213.0741	69.38647
#1	.0008641	-.015088	.0000473	-.000209	.3009790	.000735	-.000031
#2	.0000415	.014565	.0002146	-.000220	.3157534	-.000717	-.000207
#3	.0006810	-.020641	-.000096	-.000058	.3207668	-.001828	-.000148

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1630606**	**-.006799**	**-.000028**	**-.001471**	**.0014124**	**-.016989**	**.0007971**
Stddev	.0228046	.000230	.000109	.000602	.0014215	.005424	.0007911
%RSD	13.98536	3.387102	385.9285	40.90812	100.6461	31.92689	99.24199
#1	.1810599	-.006643	-.000076	-.002108	.0025293	-.019040	.0009197
#2	.1707063	-.007063	.000096	-.001392	.0018956	-.021088	-.000048
#3	.1374155	-.006689	-.000104	-.000912	-.000188	-.010838	.001520

Reviewed By:jaswal
On:10/17/2025 1:18:42 PM
Inst Id :P4
LB :LB137561

Sample Name: PB170089BL Acquired: 10/15/2025 16:36:27 Type: Unk
Method: 6010-200.7 NEW(v285) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0051168	.0019181	-.000045
Stddev	.0027566	.0009911	.000143
%RSD	53.87374	51.66994	318.1610
#1	.0043983	.0019114	-.000056
#2	.0027907	.0009304	.000103
#3	.0081616	.0029125	-.000182

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6236.406	104228.7	7939.848	4991.963	8138.317
Stddev	8.198	271.6	16.318	11.824	11.508
%RSD	.1314557	.2605602	.2055230	.2368541	.1414102
#1	6227.709	104258.9	7927.938	4991.043	8127.990
#2	6237.517	104484.0	7958.448	5004.220	8136.238
#3	6243.992	103943.3	7933.158	4980.626	8150.723

Reviewed By:jaswal
On:10/17/2025 1:18:42 PM
Inst Id :P4
LB :LB137561

Sample Name: PB170089BS Acquired: 10/15/2025 16:43:04 Type: Unk
Method: 6010-200.7 NEW(v285) 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	**.7122894**	**2.035471**	**.8405394**	**1.833714**	**.7429347**	**1.725872**
Stddev	.0037195	.050496	.0013095	.009149	.0016803	.011599
%RSD	.5221954	2.480802	.1557958	.4989070	.2261707	.6720377
#1	.7142499	2.090252	.8394035	1.843106	.7448749	1.739166
#2	.7146187	1.990785	.8402430	1.824830	.7419500	1.720634
#3	.7079998	2.025375	.8419717	1.833207	.7419793	1.717817

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1671631**	**.1832457**	**.1657241**	**.9128027**	**.3591538**	**.1707554**
Stddev	.0007330	.0010373	.0001417	.0071069	.0009159	.0003662
%RSD	.4384911	.5660826	.0854891	.7785825	.2550117	.2144782
#1	.1674272	.1825825	.1655634	.9204183	.3596984	.1703438
#2	.1677276	.1844411	.1658308	.9063472	.3580964	.1708774
#3	.1663347	.1827135	.1657781	.9116425	.3596666	.1710451

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2792851**	**2.703712**	**.1796379**	**1.779756**	**.4306947**	**.0695024**
Stddev	.0001686	.030542	.0006205	.026804	.0005480	.0007002
%RSD	.0603569	1.129616	.3454090	1.506025	.1272263	1.007406
#1	.2793170	2.716246	.1789286	1.806222	.4300709	.0703108
#2	.2791029	2.668897	.1800800	1.780418	.4309149	.0691064
#3	.2794355	2.725992	.1799052	1.752627	.4310983	.0690899

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**3.036696**	**.2625086**	**.1866881**	**8.594113**	**.2663848**	**.3619014**
Stddev	.025518	.0027890	.0003420	.046338	.0028530	.0002489
%RSD	.8403085	1.062444	.1832179	.5391783	1.070995	.0687671
#1	3.047410	.2633715	.1865884	8.595314	.2645617	.3621542
#2	3.007568	.2593901	.1870689	8.547186	.2696727	.3616567
#3	3.055110	.2647642	.1864070	8.639838	.2649202	.3618934

Reviewed By:jaswal
On:10/17/2025 1:18:42 PM
Inst Id :P4
LB :LB137561

Sample Name: PB170089BS Acquired: 10/15/2025 16:43:04 Type: Unk
Method: 6010-200.7 NEW(v285) 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	.5895742	.1717871	.7754955	5.062149	F .0011029	.1707569
Stddev	.0008251	.0008684	.0137490	.023257	.0012163	.0004950
%RSD	.1399533	.5055322	1.772930	.4594318	110.2830	.2898697
#1	.5886440	.1715776	.7910888	5.063265	-.000247	.1702578
#2	.5898610	.1727411	.7702823	5.084827	.002114	.1707653
#3	.5902177	.1710425	.7651156	5.038353	.001441	.1712477

Elem	Sr4077
Units	ppm
Avg	.1713141
Stddev	.0003049
%RSD	.1779508
#1	.1714001
#2	.1709755
#3	.1715667

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6209.834	102719.1	7996.440	4939.536	7823.376
Stddev	5.658	190.3	58.540	12.745	12.450
%RSD	.0911110	.1852926	.7320752	.2580113	.1591420
#1	6216.243	102500.3	8017.213	4927.572	7837.467
#2	6207.724	102810.4	7930.346	4952.939	7818.802
#3	6205.534	102846.6	8041.761	4938.096	7813.860

Reviewed By:jaswal
On:10/17/2025 1:18:42 PM
Inst Id :P4
LB :LB137561

Sample Name: Q3337-01 Acquired: 10/15/2025 16:47:04 Type: Unk
Method: 6010-200.7 NEW(v285) 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	.3540938	-.037676	.4248917	-.001620	-.016213	161.9505
Stddev	.0011289	.004752	.0024045	.004178	.001383	.2123
%RSD	.3188212	12.61174	.5658994	257.8230	8.529886	.1311113
#1	.3538521	-.041028	.4221166	-.005190	-.016154	162.0082
#2	.3553240	-.032238	.4262061	-.002645	-.017625	162.1280
#3	.3531053	-.039762	.4263525	.002974	-.014861	161.7153

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.699202	.0129542	.0133624	754.2788	.2806163	.1633970
Stddev	.005764	.0001292	.0002620	4.9662	.0002539	.0007872
%RSD	.3392260	.9970882	1.960385	.6584093	.0904674	.4817426
#1	1.702876	.0129798	.0134189	757.1756	.2807003	.1625037
#2	1.702172	.0130687	.0130768	757.1164	.2808175	.1636986
#3	1.692559	.0128142	.0135914	748.5443	.2803311	.1639888

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2601226	372.7498	3.941299	181.7924	.2393204	-.059854
Stddev	.0020662	.8885	.014313	.4588	.0008848	.000580
%RSD	.7943033	.2383672	.3631662	.2523515	.3696958	.9686218
#1	.2578210	372.1971	3.947013	182.3139	.2387423	-.059245
#2	.2607293	373.7748	3.951874	181.4511	.2388801	-.059917
#3	.2618175	372.2777	3.925012	181.6122	.2403390	-.060400

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.902658	.4762621	.9657412	35.55238	.3525895	.0096034
Stddev	.050479	.0008670	.0027676	.17549	.0024846	.0001725
%RSD	.6387575	.1820443	.2865760	.4936166	.7046850	1.796484
#1	7.851965	.4768138	.9689368	35.37700	.3497330	.0094615
#2	7.952920	.4767096	.9641150	35.72799	.3542504	.0095532
#3	7.903091	.4752627	.9641719	35.55215	.3537849	.0097954

Reviewed By:jaswal
On:10/17/2025 1:18:42 PM
Inst Id :P4
LB :LB137561

Sample Name: Q3337-01 Acquired: 10/15/2025 16:47:04 Type: Unk
Method: 6010-200.7 NEW(v285) 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	.0157768	7.617837	7.982441	F 11.37967	F 26.64743	.1324256
Stddev	.0004784	.019345	.017962	.03182	.11295	.0007145
%RSD	3.032213	.2539482	.2250231	.2796423	.4238832	.5395492
#1	.0161222	7.629563	7.976547	11.35068	26.54319	.1316018
#2	.0152308	7.628439	7.968167	11.37462	26.63166	.1328778
#3	.0159776	7.595508	8.002610	11.41372	26.76744	.1327970

Elem	Sr4077
Units	ppm
Avg	2.799531
Stddev	.023919
%RSD	.8544030
#1	2.801082
#2	2.822638
#3	2.774875

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5997.159	99594.65	8504.546	4782.832	5511.094
Stddev	16.180	128.42	27.631	5.006	23.034
%RSD	.2697945	.1289421	.3249002	.1046679	.4179501
#1	6013.658	99689.11	8482.126	4778.626	5533.727
#2	5996.499	99448.43	8496.096	4781.501	5511.875
#3	5981.319	99646.40	8535.415	4788.369	5487.680

Reviewed By:jaswal
On:10/17/2025 1:18:42 PM
Inst Id :P4
LB :LB137561

Sample Name: Q3337-03 Acquired: 10/15/2025 16:51:22 Type: Unk
Method: 6010-200.7 NEW(v285) 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	.0883346	-.024209	.4504538	-.001188	-.008727	156.8893
Stddev	.0009537	.002355	.0030050	.002253	.001400	.1264
%RSD	1.079706	9.729235	.6671083	189.5789	16.03814	.0805961
#1	.0875208	-.021490	.4470180	-.002728	-.008598	156.9559
#2	.0893841	-.025565	.4517513	-.002235	-.007395	156.7435
#3	.0880990	-.025574	.4525921	.001398	-.010186	156.9685

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.420642	.0093165	.0101570	825.8203	.3132000	.1126984
Stddev	.011982	.0000466	.0001506	6.7534	.0006896	.0001416
%RSD	.8434023	.4998780	1.482239	.8177834	.2201711	.1256284
#1	1.431620	.0093475	.0100571	833.5778	.3124365	.1127998
#2	1.422445	.0092629	.0100837	821.2533	.3133863	.1125366
#3	1.407861	.0093389	.0103302	822.6296	.3137773	.1127587

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4430330	296.3212	3.353703	145.3785	.2092975	-.046491
Stddev	.0005520	.6879	.023287	.2901	.0006279	.000553
%RSD	.1245885	.2321618	.6943584	.1995498	.2999798	1.188511
#1	.4426888	297.0264	3.376149	145.6047	.2092760	-.045900
#2	.4427406	296.2853	3.355304	145.0514	.2086806	-.046580
#3	.4436697	295.6520	3.329658	145.4794	.2099358	-.046994

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.200282	.4752468	1.228938	47.47635	.3802691	.0096914
Stddev	.049597	.0027225	.004084	.07816	.0074437	.0002416
%RSD	.5390837	.5728667	.3323084	.1646250	1.957473	2.492882
#1	9.256229	.4783900	1.224488	47.55985	.3882528	.0099667
#2	9.182911	.4736279	1.229814	47.46423	.3735198	.0095925
#3	9.161707	.4737225	1.232513	47.40495	.3790347	.0095149

Reviewed By:jaswal
On:10/17/2025 1:18:42 PM
Inst Id :P4
LB :LB137561

Sample Name: Q3337-03 Acquired: 10/15/2025 16:51:22 Type: Unk
Method: 6010-200.7 NEW(v285) 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	.0288575	7.842503	F 29.42480	8.274135	F 23.50964	.1230126
Stddev	.0015800	.030550	.03565	.024080	.11300	.0010968
%RSD	5.475003	.3895459	.1211696	.2910228	.4806544	.8916032
#1	.0299698	7.866678	29.43361	8.301581	23.63457	.1227715
#2	.0295537	7.852664	29.38557	8.256555	23.41458	.1242099
#3	.0270490	7.808167	29.45522	8.264268	23.47978	.1220564

Elem	Sr4077
Units	ppm
Avg	2.877024
Stddev	.082463
%RSD	2.866257
#1	2.927871
#2	2.921322
#3	2.781879

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5822.911	96010.67	8435.950	4554.106	5457.979
Stddev	1.998	168.23	46.311	12.665	2.980
%RSD	.0343099	.1752212	.5489772	.2781030	.0545917
#1	5824.763	95957.67	8400.795	4555.784	5461.092
#2	5820.794	95875.33	8418.630	4565.848	5457.694
#3	5823.175	96199.02	8488.425	4540.685	5455.153

Reviewed By:jaswal
On:10/17/2025 1:18:42 PM
Inst Id :P4
LB :LB137561

Sample Name: Q3337-03DUP Acquired: 10/15/2025 16:55:40 Type: Unk
Method: 6010-200.7 NEW(v285) 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	.0994592	-.027105	.3932085	.0019737	-.014017	158.7116
Stddev	.0016231	.002412	.0010215	.0051532	.001588	.6795
%RSD	1.631965	8.898027	.2597868	261.0880	11.32604	.4281559
#1	.0977167	-.026453	.3920601	-.003929	-.015164	159.4905
#2	.0997328	-.025086	.3940158	.004271	-.014681	158.2396
#3	.1009282	-.029775	.3935496	.005579	-.012205	158.4048

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.994706	.0099968	.0110757	670.5347	.3047827	.1064257
Stddev	.016280	.0001066	.0003576	.6462	.0004132	.0004512
%RSD	.8161494	1.066033	3.228899	.0963775	.1355793	.4239453
#1	2.001677	.0101097	.0114886	670.6084	.3044789	.1060700
#2	1.976101	.0098980	.0108753	671.1409	.3046160	.1062739
#3	2.006339	.0099827	.0108633	669.8548	.3052532	.1069332

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3598158	309.2293	3.240721	128.2951	.1935123	-.052154
Stddev	.0005466	3.7451	.027270	.8529	.0008543	.000857
%RSD	.1519207	1.211100	.8414812	.6647950	.4414481	1.642312
#1	.3597165	306.6321	3.256752	129.2735	.1927986	-.052396
#2	.3604053	307.5334	3.209234	127.7085	.1932795	-.052863
#3	.3593256	313.5223	3.256176	127.9034	.1944589	-.051202

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	8.641289	.5173578	1.017421	44.58727	.2974681	.0082934
Stddev	.114653	.0005855	.002451	.36124	.0156480	.0003353
%RSD	1.326803	.1131626	.2408915	.8101886	5.260385	4.043327
#1	8.582572	.5172671	1.019356	44.40812	.2843529	.0084694
#2	8.567887	.5168230	1.014665	44.35061	.2932622	.0079067
#3	8.773407	.5179833	1.018241	45.00307	.3147892	.0085040

Reviewed By:jaswal
On:10/17/2025 1:18:42 PM
Inst Id :P4
LB :LB137561

Sample Name: Q3337-03DUP Acquired: 10/15/2025 16:55:40 Type: Unk
Method: 6010-200.7 NEW(v285) 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	.0204770	7.189915	F 27.09458	7.378460	F 20.30391	.1454245
Stddev	.0009273	.047444	.06563	.060668	.16913	.0018795
%RSD	4.528284	.6598628	.2422341	.8222283	.8330107	1.292417
#1	.0196218	7.232476	27.09774	7.435720	20.48552	.1444989
#2	.0214626	7.138763	27.02742	7.314880	20.15089	.1441874
#3	.0203467	7.198507	27.15857	7.384781	20.27533	.1475873

Elem	Sr4077
Units	ppm
Avg	2.266158
Stddev	.045051
%RSD	1.988000
#1	2.316732
#2	2.251422
#3	2.230320

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5994.207	98491.57	8128.545	4639.125	5630.759
Stddev	7.369	274.44	66.051	16.098	9.010
%RSD	.1229435	.2786407	.8125810	.3470120	.1600114
#1	5999.555	98637.32	8052.343	4657.298	5634.581
#2	5997.266	98662.37	8169.416	4633.422	5637.228
#3	5985.801	98175.00	8163.876	4626.655	5620.468

Reviewed By:jaswal
On:10/17/2025 1:18:42 PM
Inst Id :P4
LB :LB137561

Sample Name: Q3337-03LX5 Acquired: 10/15/2025 16:59:59 Type: Unk
Method: 6010-200.7 NEW(v285) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0200839**	**-.004220**	**.0960622**	**-.003671**	**-.003374**	**35.58282**	**.3212081**
Stddev	.0040970	.000718	.0007321	.003022	.001120	.06356	.0009517
%RSD	20.39943	17.01269	.7621495	82.33584	33.19639	.1786360	.2962915
#1	.0245238	-.004778	.0965997	-.000839	-.004658	35.59500	.3218037
#2	.0164495	-.003410	.0963586	-.003321	-.002867	35.51405	.3217102
#3	.0192785	-.004471	.0952284	-.006853	-.002598	35.63941	.3201105

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0022314**	**.0010179**	**198.9320**	**.0719798**	**.0223250**	**.1115119**	**64.39723**
Stddev	.0000828	.0001291	.3714	.0023988	.0001573	.0015374	1.88189
%RSD	3.708934	12.68005	.1867216	3.332644	.7045812	1.378705	2.922315
#1	.0022001	.0009785	198.9147	.0732919	.0223652	.1114164	65.72799
#2	.0023253	.0011621	198.5695	.0692111	.0224583	.1130948	62.24413
#3	.0021689	.0009132	199.3118	.0734364	.0221515	.1100244	65.21958

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.8085115**	**34.69804**	**.0427225**	**-.010422**	**2.051015**	**.1107388**	**.2697861**
Stddev	.0025406	.09361	.0003232	.000643	.076069	.0038118	.0078907
%RSD	.3142329	.2697921	.7566141	6.174266	3.708869	3.442162	2.924806
#1	.8114448	34.59253	.0428137	-.011128	2.092662	.1112491	.2747548
#2	.8070849	34.73045	.0423634	-.009869	1.963216	.1066975	.2606875
#3	.8070049	34.77114	.0429903	-.010269	2.097167	.1142697	.2739159

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**9.535253**	**.0701433**	**.0022105**	**.0038058**	**1.838203**	**6.131970**	**1.585119**
Stddev	.279566	.0056059	.0001055	.0001341	.001097	.178911	.008969
%RSD	2.931917	7.992038	4.771602	3.524671	.0596520	2.917668	.5657945
#1	9.673746	.0751439	.0021106	.0036537	1.837372	6.250408	1.592568
#2	9.213475	.0640833	.0023208	.0038565	1.837790	5.926162	1.587624
#3	9.718536	.0712028	.0022003	.0039071	1.839446	6.219339	1.575164

Reviewed By:jaswal
On:10/17/2025 1:18:42 PM
Inst Id :P4
LB :LB137561

Sample Name: Q3337-03LX5 Acquired: 10/15/2025 16:59:59 Type: Unk
Method: 6010-200.7 NEW(v285) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	4.516115	.0284777	.6622242
Stddev	.042741	.0017102	.0010995
%RSD	.9464135	6.005468	.1660373
#1	4.554067	.0272596	.6611615
#2	4.524460	.0304329	.6633572
#3	4.469816	.0277406	.6621537

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5819.994	97341.40	7648.178	4666.884	6512.376
Stddev	2.667	2319.66	30.750	108.097	8.491
%RSD	.0458255	2.383020	.4020556	2.316251	.1303882
#1	5821.240	95735.94	7661.405	4586.635	6516.105
#2	5816.932	100000.9	7613.028	4789.803	6502.658
#3	5821.810	96287.3	7670.101	4624.214	6518.364

Reviewed By:jaswal
On:10/17/2025 1:18:42 PM
Inst Id :P4
LB :LB137561

Sample Name: Q3337-03MS Acquired: 10/15/2025 17:04:04 Type: Unk
Method: 6010-200.7 NEW(v285) 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	.7868894	1.908774	1.336022	1.646919	.2736498	172.0028
Stddev	.0040546	.054820	.002431	.002424	.0002315	1.2005
%RSD	.5152654	2.872008	.1819445	.1471903	.0846013	.6979784
#1	.7841856	1.845495	1.337918	1.644133	.2738942	171.1704
#2	.7849312	1.941826	1.333282	1.648080	.2734338	171.4591
#3	.7915514	1.939002	1.336866	1.648545	.2736215	173.3791

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.812130	.1891179	.1993563	699.6212	.6496272	.2852712
Stddev	.012605	.0028258	.0005410	5.8322	.0015438	.0004677
%RSD	.6955667	1.494172	.2713921	.8336214	.2376477	.1639574
#1	1.809086	.1901909	.1996193	694.7641	.6491598	.2848748
#2	1.801327	.1859128	.1987340	698.0099	.6513507	.2857871
#3	1.825978	.1912499	.1997155	706.0896	.6483710	.2851516

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4781402	314.1314	3.268639	133.8288	.6513894	.0226903
Stddev	.0034512	3.4165	.024060	.9143	.0007189	.0001296
%RSD	.7218041	1.087593	.7360902	.6831878	.1103646	.5712521
#1	.4803414	312.1172	3.270348	133.4220	.6505856	.0228385
#2	.4741626	318.0761	3.243769	133.1886	.6519708	.0226343
#3	.4799166	312.2009	3.291799	134.8760	.6516119	.0225982

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	11.42476	.7340484	1.155160	47.54942	.5309342	.3362369
Stddev	.11875	.0010150	.001777	.58114	.0124475	.0001722
%RSD	1.039417	.1382709	.1538445	1.222185	2.344451	.0512201
#1	11.34575	.7339594	1.153515	47.20212	.5219912	.3361205
#2	11.56132	.7330808	1.154921	48.22033	.5451503	.3361555
#3	11.36720	.7351049	1.157045	47.22582	.5256610	.3364347

Reviewed By:jaswal
On:10/17/2025 1:18:42 PM
Inst Id :P4
LB :LB137561

Sample Name: Q3337-03MS Acquired: 10/15/2025 17:04:04 Type: Unk
Method: 6010-200.7 NEW(v285) 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	.6590952	6.397577	F 21.19346	F 13.27110	F 25.97414	.3090468
Stddev	.0028481	.039667	.33789	.03084	.17191	.0018968
%RSD	.4321305	.6200310	1.594333	.2323742	.6618324	.6137582
#1	.6566395	6.375955	20.99854	13.23557	25.77652	.3087754
#2	.6584285	6.373419	21.58363	13.29095	26.05671	.3073003
#3	.6622176	6.443357	20.99822	13.28679	26.08918	.3110646

Elem	Sr4077
Units	ppm
Avg	2.668754
Stddev	.010385
%RSD	.3891323
#1	2.657342
#2	2.671273
#3	2.677648

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5981.054	99277.90	8168.948	4815.168	5619.064
Stddev	11.355	402.07	107.505	16.553	7.690
%RSD	.1898524	.4049904	1.316018	.3437590	.1368625
#1	5967.957	99510.88	8133.689	4817.767	5611.085
#2	5988.139	98813.63	8289.654	4797.469	5619.678
#3	5987.067	99509.18	8083.500	4830.267	5626.429

Reviewed By:jaswal
On:10/17/2025 1:18:42 PM
Inst Id :P4
LB :LB137561

Sample Name: Q3337-03MSD Acquired: 10/15/2025 17:08:17 Type: Unk
Method: 6010-200.7 NEW(v285) 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	.7931205	1.974983	1.334227	1.662540	.2612593	142.7878
Stddev	.0063423	.021737	.010530	.009654	.0033174	.6650
%RSD	.7996587	1.100601	.7892139	.5806925	1.269770	.4657358
#1	.7862621	1.953257	1.323061	1.661993	.2604069	142.3021
#2	.7987736	1.996730	1.335643	1.653171	.2584513	143.5458
#3	.7943258	1.974962	1.343978	1.672457	.2649197	142.5156

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.397077	.1833188	.1984892	673.5527	.9350368	.2898766
Stddev	.002493	.0007218	.0022148	3.7232	.0032812	.0026706
%RSD	.1784774	.3937316	1.115813	.5527766	.3509160	.9212804
#1	1.397252	.1826302	.1963582	675.3813	.9334852	.2875413
#2	1.399478	.1840697	.1983304	676.0081	.9388060	.2893002
#3	1.394501	.1832565	.2007791	669.2687	.9328192	.2927883

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5030617	313.0705	3.552508	107.3307	.6675674	.0236470
Stddev	.0062952	1.1779	.011503	.4869	.0051325	.0006145
%RSD	1.251371	.3762383	.3237921	.4536612	.7688415	2.598752
#1	.4967241	314.0066	3.540989	107.1058	.6627602	.0240587
#2	.5031474	313.4571	3.563995	107.8894	.6669692	.0229406
#3	.5093136	311.7479	3.552539	106.9968	.6729728	.0239417

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	10.93062	.7023627	1.058110	45.32126	.5429593	.3397099
Stddev	.06245	.0010826	.005497	.18654	.0079608	.0022454
%RSD	.5713091	.1541337	.5195171	.4115871	1.466178	.6609843
#1	10.97394	.7028828	1.057977	45.43449	.5513016	.3380466
#2	10.95889	.7030870	1.063672	45.42333	.5354448	.3388190
#3	10.85904	.7011182	1.052681	45.10596	.5421315	.3422640

Reviewed By:jaswal
On:10/17/2025 1:18:42 PM
Inst Id :P4
LB :LB137561

Sample Name: Q3337-03MSD Acquired: 10/15/2025 17:08:17 Type: Unk
Method: 6010-200.7 NEW(v285) 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	.6485156	6.159959	9.978551	F 15.86888	F 21.46784	.2726610
Stddev	.0045929	.022034	.054425	.23318	.22880	.0010885
%RSD	.7082183	.3577048	.5454181	1.469395	1.065759	.3992093
#1	.6457906	6.159793	9.982044	15.66295	21.27273	.2721400
#2	.6459379	6.182076	10.03115	15.82162	21.41114	.2719309
#3	.6538183	6.138008	9.92246	16.12206	21.71966	.2739120

Elem	Sr4077
Units	ppm
Avg	2.835847
Stddev	.021975
%RSD	.7748888
#1	2.840288
#2	2.811991
#3	2.855261

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5985.851	97694.64	8516.967	4719.783	5650.737
Stddev	41.937	228.95	26.986	28.175	51.453
%RSD	.7006040	.2343483	.3168445	.5969607	.9105494
#1	6026.360	97659.72	8544.226	4710.365	5697.848
#2	5988.575	97485.16	8490.263	4697.523	5658.532
#3	5942.618	97939.04	8516.412	4751.461	5595.832

Reviewed By:jaswal
On:10/17/2025 1:18:42 PM
Inst Id :P4
LB :LB137561

Sample Name: Q3337-03A Acquired: 10/15/2025 17:12:30 Type: Unk
Method: 6010-200.7 NEW(v285) 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	**.5397393**	**1.321464**	**1.041392**	**1.094072**	**.1762895**	**160.8994**
Stddev	.1192516	.324549	.150869	.277844	.0838991	.2694
%RSD	22.09429	24.55981	14.48727	25.39541	47.59167	.1674144
#1	.4169509	.970191	.884192	.809361	.0948221	160.7056
#2	.5471596	1.384016	1.054972	1.108358	.1716210	160.7856
#3	.6551075	1.610184	1.185013	1.364498	.2624254	161.2070

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.510164**	**.0603213**	**.1329305**	**858.5773**	**.4070959**	**.2412116**
Stddev	.010977	.0078758	.0335308	11.0530	.0082060	.0332267
%RSD	.7268449	13.05635	25.22435	1.287367	2.015732	13.77492
#1	1.503443	.0529771	.0978997	847.7101	.4041027	.2061958
#2	1.504218	.0593486	.1361646	858.2145	.4008066	.2451387
#3	1.522831	.0686382	.1647271	869.8073	.4163782	.2723002

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5960529**	**304.6569**	**3.535635**	**149.7574**	**.5259615**	**-.024738**
Stddev	.0356265	5.0878	.013436	.3668	.0835461	.003312
%RSD	5.977071	1.669995	.3800233	.2449285	15.88444	13.38699
#1	.5562114	310.5316	3.532930	149.3534	.4392174	-.028286
#2	.6071003	301.7541	3.523757	149.8493	.5327748	-.024198
#3	.6248471	301.6850	3.550218	150.0694	.6058923	-.021729

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**9.961078**	**.5193273**	**1.296649**	**50.65490**	**.4630236**	**.0957699**
Stddev	.089748	.0154571	.019573	.57199	.0085549	.0385044
%RSD	.9009845	2.976363	1.509487	1.129187	1.847608	40.20507
#1	9.999227	.5070296	1.318527	51.21028	.4728940	.0589570
#2	9.858558	.5142737	1.280801	50.06764	.4577474	.0925850
#3	10.02545	.5366786	1.290619	50.68678	.4584293	.1357679

Reviewed By:jaswal
On:10/17/2025 1:18:42 PM
Inst Id :P4
LB :LB137561

Sample Name: Q3337-03A Acquired: 10/15/2025 17:12:30 Type: Unk
Method: 6010-200.7 NEW(v285) 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	.1887306	8.145446	F 30.22559	F 12.51178	F 23.72512	.1538235
Stddev	.0758996	.012451	.57393	.88844	.61469	.0072249
%RSD	40.21587	.1528533	1.898827	7.100851	2.590868	4.696853
#1	.1150875	8.154847	30.85996	11.54922	24.11394	.1474436
#2	.1844027	8.131326	30.07447	12.68576	24.04496	.1523581
#3	.2667016	8.150165	29.74234	13.30037	23.01646	.1616687

Elem	Sr4077
Units	ppm
Avg	3.030234
Stddev	.053557
%RSD	1.767418
#1	2.968412
#2	3.062501
#3	3.059790

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5800.644	93705.41	8067.410	4584.161	5393.778
Stddev	90.173	1595.56	29.810	86.711	99.739
%RSD	1.554530	1.702741	.3695079	1.891537	1.849157
#1	5755.025	91863.08	8067.622	4484.097	5337.761
#2	5742.395	94640.40	8097.114	4631.170	5334.639
#3	5904.510	94612.74	8037.495	4637.217	5508.932

Reviewed By:jaswal
On:10/17/2025 1:18:42 PM
Inst Id :P4
LB :LB137561

Sample Name: PB170108BL Acquired: 10/15/2025 17:16:46 Type: Unk
Method: 6010-200.7 NEW(v285) 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	**.0016442**	**.0008268**	**.0007773**	**-.001581**	**-.001275**	**.0061042**
Stddev	.0015738	.0003272	.0004492	.000711	.001190	.0059884
%RSD	95.71570	39.57604	57.79096	44.92919	93.32856	98.10234
#1	.0017958	.0005161	.0004426	-.000873	-.001797	.0039681
#2	.0031367	.0007960	.0012878	-.001577	.000087	.0014768
#3	.0000001	.0011684	.0006015	-.002294	-.002116	.0128678

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.003551**	**-.000007**	**.0000338**	**.0670736**	**.0000755**	**-.000163**
Stddev	.001287	.000012	.0000520	.0103921	.0002398	.000097
%RSD	36.25440	176.6568	153.9679	15.49365	317.3668	59.49378
#1	-.002098	-.000018	-.000023	.0766628	.0001051	-.000051
#2	-.004549	-.000008	.000079	.0560314	-.000178	-.000212
#3	-.004006	.000006	.000045	.0685265	.000299	-.000227

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000234**	**.0056418**	**.0002652**	**-.029994**	**.0001253**	**-.000425**
Stddev	.000175	.0051472	.0006297	.030670	.0000613	.000197
%RSD	74.83782	91.23318	237.4996	102.2551	48.88470	46.27340
#1	-.000380	.0075261	.0004569	-.014141	.0001712	-.000257
#2	-.000284	-.000182	.0007768	-.065346	.0001490	-.000642
#3	-.000040	.009581	-.000438	-.010495	.0000558	-.000377

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1618418**	**-.004138**	**-.000072**	**.1778626**	**-.010201**	**.0000613**
Stddev	.0076192	.002043	.000066	.0137700	.000212	.0002108
%RSD	4.707821	49.37687	90.98087	7.741903	2.078480	343.8522
#1	.1701811	-.006013	-.000140	.1672185	-.010394	.0003046
#2	.1552442	-.004439	-.000068	.1934140	-.010236	-.000052
#3	.1601003	-.001961	-.000009	.1729553	-.009974	-.000069

Reviewed By:jaswal
On:10/17/2025 1:18:42 PM
Inst Id :P4
LB :LB137561

Sample Name: PB170108BL Acquired: 10/15/2025 17:16:46 Type: Unk
Method: 6010-200.7 NEW(v285) 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	-.000779	.0007517	.0180902	.0003162	F .0108437	.0016336
Stddev	.000301	.0012721	.0095090	.0019333	.0027065	.0019030
%RSD	38.67299	169.2356	52.56459	611.3805	24.95912	116.4938
#1	-.001121	.0021903	.0142371	.0025129	.0139344	.0024266
#2	-.000556	.0002898	.0289210	-.000438	.0096991	-.000538
#3	-.000658	-.000225	.0111124	-.001127	.0088975	.003012

Elem	Sr4077
Units	ppm
Avg	.0000834
Stddev	.0001216
%RSD	145.7562
#1	-.000030
#2	.000068
#3	.000212

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6031.830	100305.1	7610.355	4831.267	7871.213
Stddev	6.373	311.9	20.314	10.529	9.211
%RSD	.1056628	.3109616	.2669207	.2179288	.1170243
#1	6039.048	100664.7	7587.011	4820.622	7881.510
#2	6029.465	100108.2	7624.007	4841.676	7863.756
#3	6026.978	100142.4	7620.048	4831.504	7868.373

Reviewed By:jaswal
On:10/17/2025 1:18:42 PM
Inst Id :P4
LB :LB137561

Sample Name: CCV03 Acquired: 10/15/2025 17:21:04 Type: Unk
Method: 6010-200.7 NEW(v285) 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	**4.927165**	**5.475993**	**4.835195**	**5.060718**	**4.988801**	**9.726820**	**9.318961**
Stddev	.020545	.155700	.010344	.029486	.019654	.333410	.334217
%RSD	.4169711	2.843325	.2139280	.5826374	.3939689	3.427738	3.586423
#1	4.906268	5.318710	4.831003	5.034096	4.975442	10.00922	9.632218
#2	4.927888	5.479209	4.827606	5.055648	4.979591	9.35901	8.967130
#3	4.947338	5.630061	4.846977	5.092410	5.011369	9.81223	9.357534

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2518335**	**2.406596**	**24.06807**	**.9880574**	**2.405505**	**1.224990**	**4.691122**
Stddev	.0089681	.007173	.80059	.0030963	.006200	.002842	.022694
%RSD	3.561124	.2980502	3.326361	.3133778	.2577261	.2319789	.4837739
#1	.2593620	2.401993	24.74546	.9850960	2.402052	1.222654	4.669231
#2	.2419115	2.402933	23.18458	.9878031	2.401801	1.224163	4.714542
#3	.2542269	2.414860	24.27417	.9912730	2.412662	1.228154	4.689594

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.387534**	**24.39859**	**2.418446**	**1.228661**	**26.02143**	**2.422280**	**2.442065**
Stddev	.082573	.74415	.005365	.004228	.06461	.084210	.009250
%RSD	3.458505	3.049970	.2218298	.3440792	.2483023	3.476464	.3787688
#1	2.463043	24.99226	2.414830	1.230553	25.99522	2.500865	2.436235
#2	2.299361	23.56377	2.415899	1.223818	25.97405	2.333394	2.437230
#3	2.400199	24.63973	2.424610	1.231611	26.09503	2.432581	2.452730

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**23.19191**	**5.014635**	**4.881570**	**4.794236**	**4.799148**	**4.889028**	**5.081778**
Stddev	.03490	.180967	.020576	.020072	.174833	.035960	.011749
%RSD	.1504643	3.608770	.4214970	.4186742	3.642993	.7355205	.2312066
#1	23.15691	5.170177	4.860230	4.772545	4.954503	4.848998	5.068456
#2	23.22670	4.816017	4.883195	4.798010	4.609824	4.899487	5.090662
#3	23.19214	5.057710	4.901285	4.812154	4.833119	4.918599	5.086217

Reviewed By:jaswal
On:10/17/2025 1:18:42 PM
Inst Id :P4
LB :LB137561

Sample Name: CCV03 Acquired: 10/15/2025 17:21:04 Type: Unk
Method: 6010-200.7 NEW(v285) 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	**4.910589**	**4.699009**	**4.720471**
Stddev	.052536	.157246	.221524
%RSD	1.069857	3.346368	4.692835
#1	4.853058	4.843328	4.935203
#2	4.922689	4.531428	4.492729
#3	4.956020	4.722272	4.733482

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5829.491**	**96706.21**	**7346.918**	**4575.714**	**6806.250**
Stddev	7.683	528.31	248.962	18.425	4.239
%RSD	.1317884	.5463087	3.388655	.4026628	.0622795
#1	5838.070	97263.68	7146.631	4582.656	6810.275
#2	5823.246	96642.02	7625.656	4589.659	6806.651
#3	5827.157	96212.92	7268.469	4554.826	6801.826

Reviewed By:jaswal
On:10/17/2025 1:18:42 PM
Inst Id :P4
LB :LB137561

Sample Name: CCB03 Acquired: 10/15/2025 17:25:08 Type: Unk
Method: 6010-200.7 NEW(v285) 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	**.0004002**	**-.002713**	**.0010277**	**-.000890**	**.0001405**	**-.003444**	**-.001131**
Stddev	.0017924	.000667	.0007784	.003731	.0024642	.006609	.000794
%RSD	447.8947	24.59259	75.74136	419.0100	1753.833	191.8898	70.20045
#1	-.001667	-.003202	.0004034	-.005055	.0021634	-.010876	-.000736
#2	.001528	-.001953	.0007798	.002147	.0008620	.001774	-.000612
#3	.001340	-.002984	.0018998	.000237	-.002604	-.001230	-.002045

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000009**	**.0000475**	**.0263285**	**.0000695**	**-.000137**	**.0003118**	**-.001323**
Stddev	.000030	.0000539	.0109038	.0001607	.000100	.0001822	.009972
%RSD	338.3469	113.6993	41.41452	231.2522	72.44696	58.43724	753.8991
#1	.000025	-.000015	.0354071	-.000039	-.000109	.0004868	-.002153
#2	-.000021	.000077	.0142342	.000254	-.000248	.0001231	.009038
#3	-.000031	.000081	.0293441	-.000007	-.000055	.0003256	-.010854

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0003813**	**.0098669**	**-.000274**	**-.000419**	**.1613226**	**.0006222**	**-.000087**
Stddev	.0002726	.0175503	.000081	.000494	.0142103	.0003720	.000228
%RSD	71.49344	177.8699	29.52555	117.9604	8.808599	59.77873	263.0719
#1	.0001419	-.004115	-.000349	-.000182	.1752372	.0004084	-.000333
#2	.0006781	.004154	-.000188	-.000986	.1468341	.0010518	.000116
#3	.0003241	.029562	-.000284	-.000088	.1618964	.0004065	-.000043

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1546294**	**-.004150**	**.0003697**	**-.000932**	**.0017578**	**-.009717**	**.0008134**
Stddev	.0197329	.000962	.0003514	.000183	.0004916	.005898	.0004037
%RSD	12.76144	23.17824	95.04467	19.61943	27.96694	60.69811	49.63599
#1	.1318541	-.003040	.0007520	-.000943	.0021342	-.016526	.0003473
#2	.1654232	-.004734	.0000608	-.001109	.0012016	-.006437	.0010384
#3	.1666110	-.004676	.0002964	-.000743	.0019377	-.006189	.0010544

Reviewed By:jaswal
On:10/17/2025 1:18:42 PM
Inst Id :P4
LB :LB137561

Sample Name: CCB03 Acquired: 10/15/2025 17:25:08 Type: Unk
Method: 6010-200.7 NEW(v285) 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	.0081892	.0027874	.0001358
Stddev	.0016763	.0014290	.0000260
%RSD	20.46987	51.26708	19.18037
#1	.0100658	.0037068	.0001621
#2	.0076617	.0011411	.0001352
#3	.0068401	.0035145	.0001100

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5938.290	97914.54	7549.983	4650.621	7748.987
Stddev	20.319	436.61	63.008	13.932	27.566
%RSD	.3421639	.4459062	.8345465	.2995716	.3557362
#1	5916.902	98093.58	7481.129	4646.785	7720.552
#2	5940.630	98233.16	7604.766	4666.069	7750.816
#3	5957.337	97416.87	7564.054	4639.009	7775.593

Reviewed By:jaswal
On:10/17/2025 1:18:42 PM
Inst Id :P4
LB :LB137561

Sample Name: PB170108BS Acquired: 10/15/2025 17:29:26 Type: Unk
Method: 6010-200.7 NEW(v285) 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	**.7493550**	**2.171171**	**.8922232**	**1.924270**	**.7870293**	**1.840232**
Stddev	.0019819	.038719	.0022103	.003127	.0002812	.012892
%RSD	.2644795	1.783340	.2477332	.1624948	.0357284	.7005858
#1	.7470668	2.156879	.8900371	1.922266	.7873506	1.849856
#2	.7504699	2.141629	.8921753	1.922671	.7868283	1.825584
#3	.7505284	2.215005	.8944570	1.927873	.7869088	1.845256

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1813152**	**.1933545**	**.1760157**	**.9675921**	**.3820568**	**.1815221**
Stddev	.0011025	.0009106	.0003529	.0157507	.0020861	.0004649
%RSD	.6080394	.4709378	.2004978	1.627819	.5460084	.2561127
#1	.1823517	.1941583	.1756948	.9831317	.3844383	.1818096
#2	.1801569	.1923656	.1759586	.9516385	.3805531	.1809858
#3	.1814371	.1935398	.1763936	.9680061	.3811791	.1817710

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2940398**	**2.812038**	**.1902973**	**1.909825**	**.4573481**	**.0715437**
Stddev	.0004598	.010342	.0011446	.032547	.0005910	.0006568
%RSD	.1563789	.3677700	.6014652	1.704165	.1292337	.9179812
#1	.2935150	2.800098	.1915566	1.906842	.4568054	.0722833
#2	.2942325	2.818158	.1900149	1.878873	.4579779	.0710289
#3	.2943719	2.817859	.1893204	1.943761	.4572610	.0713188

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**3.066781**	**.2758840**	**.1951831**	**9.026762**	**.2771748**	**.3854617**
Stddev	.015033	.0014880	.0002651	.097744	.0018862	.0006498
%RSD	.4901732	.5393536	.1358023	1.082830	.6805087	.1685692
#1	3.077212	.2774425	.1949380	8.988898	.2789336	.3854367
#2	3.073581	.2744784	.1951469	9.137774	.2751829	.3848247
#3	3.049550	.2757310	.1954644	8.953614	.2774079	.3861235

Reviewed By:jaswal
On:10/17/2025 1:18:42 PM
Inst Id :P4
LB :LB137561

Sample Name: PB170108BS Acquired: 10/15/2025 17:29:26 Type: Unk
Method: 6010-200.7 NEW(v285) 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	.6371141	.1852760	.8168686	5.381982	F .0102242	.1822011
Stddev	.0023651	.0020313	.0088762	.025957	.0024036	.0003685
%RSD	.3712161	1.096340	1.086618	.4822965	23.50860	.2022380
#1	.6344247	.1861815	.8092073	5.369582	.0095377	.1825915
#2	.6380478	.1866970	.8265955	5.364551	.0082386	.1818594
#3	.6388698	.1829494	.8148030	5.411814	.0128963	.1821523

Elem	Sr4077
Units	ppm
Avg	.1819779
Stddev	.0014628
%RSD	.8038052
#1	.1835931
#2	.1815982
#3	.1807425

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5878.548	96888.37	7377.254	4708.312	7362.892
Stddev	3.981	419.34	45.806	6.983	2.213
%RSD	.0677279	.4328071	.6209025	.1483218	.0300543
#1	5874.841	96563.54	7324.599	4716.283	7363.737
#2	5882.756	96739.80	7399.260	4705.380	7364.558
#3	5878.046	97361.77	7407.904	4703.272	7360.381

Reviewed By:jaswal
On:10/17/2025 1:18:42 PM
Inst Id :P4
LB :LB137561

Sample Name: Q3345-07 Acquired: 10/15/2025 17:33:27 Type: Unk
Method: 6010-200.7 NEW(v285) 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	.0244654	-.004197	.1631724	.0071118	.0015896	58.38917
Stddev	.0015029	.001097	.0006233	.0011577	.0007607	.56976
%RSD	6.143050	26.14198	.3819582	16.27825	47.85723	.9758047
#1	.0239481	-.003530	.1625620	.0060644	.0008703	57.78899
#2	.0232895	-.005463	.1638078	.0083548	.0015126	58.45587
#3	.0261587	-.003597	.1631476	.0069161	.0023859	58.92264

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3097321	.0029439	.0120350	138.1433	.1195750	.0477979
Stddev	.0062600	.0000286	.0000891	1.3703	.0004293	.0003466
%RSD	2.021108	.9723282	.7405417	.9919248	.3590292	.7251093
#1	.3062176	.0029170	.0119347	136.7379	.1199438	.0478870
#2	.3060190	.0029406	.0120654	138.2164	.1196775	.0480912
#3	.3169596	.0029740	.0121050	139.4756	.1191037	.0474154

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1047148	58.01107	.7587653	39.06301	.0904300	-.008687
Stddev	.0007350	.20778	.0089472	.32731	.0001466	.000309
%RSD	.7019231	.3581816	1.179180	.8379129	.1621026	3.554248
#1	.1051847	57.90338	.7509265	38.70172	.0905930	-.008953
#2	.1050919	57.87924	.7568565	39.14752	.0903089	-.008759
#3	.1038677	58.25060	.7685129	39.33978	.0903882	-.008348

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	10.22014	.1158285	.4820569	16.88651	.1750860	.0057701
Stddev	.05380	.0017888	.0003047	.06530	.0007728	.0001099
%RSD	.5264242	1.544386	.0632172	.3866982	.4413674	1.904793
#1	10.25244	.1165002	.4823453	16.89384	.1759645	.0056797
#2	10.15804	.1171842	.4817381	16.81786	.1747824	.0057382
#3	10.24996	.1138010	.4820874	16.94784	.1745112	.0058924

Reviewed By:jaswal
On:10/17/2025 1:18:42 PM
Inst Id :P4
LB :LB137561

Sample Name: Q3345-07 Acquired: 10/15/2025 17:33:27 Type: Unk
Method: 6010-200.7 NEW(v285) 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	-.013592	.9776829	F 78.98522	1.099679	F 11.81842	.0556326
Stddev	.000842	.0105905	.28974	.005877	.10617	.0026084
%RSD	6.194579	1.083228	.3668230	.5344253	.8983857	4.688587
#1	-.013765	.9717799	78.78147	1.106465	11.91949	.0557172
#2	-.012677	.9713595	79.31691	1.096243	11.82798	.0529830
#3	-.014335	.9899094	78.85730	1.096328	11.70778	.0581977

Elem	Sr4077
Units	ppm
Avg	.4601145
Stddev	.0065442
%RSD	1.422303
#1	.4552294
#2	.4575641
#3	.4675499

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5801.506	95753.75	7791.192	4656.454	6397.435
Stddev	8.053	268.66	46.489	12.492	9.791
%RSD	.1388097	.2805775	.5966838	.2682741	.1530415
#1	5796.200	95517.40	7832.185	4654.139	6386.243
#2	5797.545	95697.91	7800.709	4645.282	6401.651
#3	5810.772	96045.94	7740.681	4669.942	6404.411

Reviewed By:jaswal
On:10/17/2025 1:18:42 PM
Inst Id :P4
LB :LB137561

Sample Name: Q3345-07DUP Acquired: 10/15/2025 17:37:31 Type: Unk
Method: 6010-200.7 NEW(v285) 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	.0227816	-.006782	.1603486	.0103875	.0017603	58.15721
Stddev	.0039391	.004447	.0016972	.0010455	.0004924	.88109
%RSD	17.29069	65.57403	1.058433	10.06469	27.97521	1.515018
#1	.0202883	-.004733	.1605913	.0091950	.0011970	57.14936
#2	.0273228	-.011885	.1619113	.0111462	.0019745	58.78159
#3	.0207337	-.003729	.1585430	.0108214	.0021094	58.54066

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3090767	.0030216	.0114889	139.6878	.1167332	.0459358
Stddev	.0067813	.0001152	.0002167	2.2718	.0033306	.0001094
%RSD	2.194058	3.811993	1.886508	1.626338	2.853198	.2380707
#1	.3016036	.0029900	.0112546	137.0947	.1205676	.0458244
#2	.3148382	.0031493	.0115298	141.3274	.1150739	.0459399
#3	.3107884	.0029255	.0116823	140.6414	.1145582	.0460430

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1019902	57.46157	.7661501	39.56285	.0867559	-.008911
Stddev	.0008007	1.30100	.0120607	.77857	.0001567	.000623
%RSD	.7850406	2.264120	1.574201	1.967925	.1806488	6.996395
#1	.1010800	58.96131	.7524601	38.68797	.0868852	-.009571
#2	.1025856	56.63636	.7752085	40.17947	.0868010	-.008830
#3	.1023051	56.78702	.7707817	39.82111	.0865816	-.008331

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	10.09894	.1083990	.4792892	16.53922	.1759536	.0055265
Stddev	.22836	.0038024	.0146298	.33787	.0046320	.0002555
%RSD	2.261214	3.507798	3.052401	2.042869	2.632499	4.622752
#1	10.36088	.1072780	.4961306	16.92848	.1805457	.0053925
#2	9.94173	.1126359	.4720121	16.32189	.1712827	.0053660
#3	9.99420	.1052831	.4697249	16.36729	.1760326	.0058211

Reviewed By:jaswal
On:10/17/2025 1:18:42 PM
Inst Id :P4
LB :LB137561

Sample Name: Q3345-07DUP Acquired: 10/15/2025 17:37:31 Type: Unk
Method: 6010-200.7 NEW(v285) 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	-.014600	.9310631	F 76.88188	1.073624	F 11.49252	.0556029
Stddev	.000627	.0094539	1.73709	.003356	.01514	.0023364
%RSD	4.295641	1.015390	2.259433	.3125567	.1317293	4.201890
#1	-.014193	.9205423	78.88655	1.070133	11.48926	.0568646
#2	-.014284	.9388457	75.82064	1.076826	11.47927	.0570372
#3	-.015322	.9338013	75.93846	1.073913	11.50902	.0529069

Elem	Sr4077
Units	ppm
Avg	.4662588
Stddev	.0092178
%RSD	1.976968
#1	.4557447
#2	.4729503
#3	.4700814

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5938.556	95690.13	7669.104	4652.297	6565.103
Stddev	1.839	2373.45	98.784	116.773	8.370
%RSD	.0309724	2.480354	1.288081	2.510014	.1274939
#1	5938.533	92962.77	7782.861	4517.960	6574.433
#2	5936.728	97287.10	7604.950	4709.405	6558.253
#3	5940.406	96820.52	7619.502	4729.525	6562.622

Reviewed By:jaswal
On:10/17/2025 1:18:42 PM
Inst Id :P4
LB :LB137561

Sample Name: Q3345-07LX5 Acquired: 10/15/2025 17:41:34 Type: Unk
Method: 6010-200.7 NEW(v285) 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	.0057761	-.004952	.0330682	-.000100	-.000494	12.05967
Stddev	.0012438	.000271	.0010808	.003966	.000540	.26539
%RSD	21.53436	5.464585	3.268525	3968.036	109.2688	2.200674
#1	.0066947	-.004640	.0318599	.004478	-.001113	12.01550
#2	.0043606	-.005083	.0339428	-.002290	-.000117	11.81913
#3	.0062730	-.005132	.0334020	-.002488	-.000253	12.34438

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0607216	.0006355	.0022242	29.52757	.0249613	.0091168
Stddev	.0026942	.0000120	.0000203	.64030	.0003882	.0001768
%RSD	4.436953	1.883563	.9128982	2.168467	1.555375	1.939097
#1	.0629126	.0006335	.0022417	29.53660	.0245172	.0092900
#2	.0577134	.0006246	.0022020	28.88281	.0252364	.0091237
#3	.0615388	.0006483	.0022290	30.16330	.0251302	.0089366

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0229525	11.73379	.1596188	8.379513	.0175334	-.002408
Stddev	.0002070	.04279	.0038249	.147582	.0002363	.000245
%RSD	.9018478	.3646972	2.396249	1.761221	1.347718	10.15521
#1	.0230393	11.76506	.1601235	8.392953	.0172945	-.002342
#2	.0231020	11.68502	.1555667	8.225670	.0177670	-.002679
#3	.0227163	11.75128	.1631663	8.519914	.0175389	-.002203

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.168505	.0220314	.0982683	3.333783	.0297822	.0011240
Stddev	.002266	.0016820	.0000959	.036501	.0013764	.0002377
%RSD	.1044768	7.634741	.0976091	1.094888	4.621598	21.15022
#1	2.167646	.0239630	.0982048	3.357918	.0305560	.0009771
#2	2.166795	.0212409	.0983787	3.291791	.0305974	.0013983
#3	2.171074	.0208902	.0982216	3.351640	.0281930	.0009968

Reviewed By:jaswal
On:10/17/2025 1:18:42 PM
Inst Id :P4
LB :LB137561

Sample Name: Q3345-07LX5 Acquired: 10/15/2025 17:41:34 Type: Unk
Method: 6010-200.7 NEW(v285) 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	-.003973	.1905619	F 15.49529	.2113570	2.268040	.0143261
Stddev	.000200	.0034064	.08952	.0016794	.013155	.0006623
%RSD	5.041176	1.787566	.5776940	.7945866	.5800171	4.623172
#1	-.004123	.1872192	15.44296	.2106362	2.259013	.0150869
#2	-.004051	.1904380	15.44426	.2132765	2.283133	.0138781
#3	-.003745	.1940286	15.59865	.2101583	2.261973	.0140134

Elem	Sr4077
Units	ppm
Avg	.0965984
Stddev	.0024875
%RSD	2.575137
#1	.0972138
#2	.0938609
#3	.0987205

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5900.516	97242.53	7566.524	4650.175	7164.578
Stddev	5.745	141.52	130.860	22.745	8.132
%RSD	.0973608	.1455328	1.729458	.4891202	.1135097
#1	5907.125	97370.44	7566.941	4665.052	7173.964
#2	5896.718	97266.65	7697.175	4623.993	7160.131
#3	5897.705	97090.50	7435.456	4661.481	7159.639

Reviewed By:jaswal
On:10/17/2025 1:18:42 PM
Inst Id :P4
LB :LB137561

Sample Name: Q3345-07MS Acquired: 10/15/2025 17:45:45 Type: Unk
Method: 6010-200.7 NEW(v285) 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	.7169504	1.831437	1.011534	1.709905	.5427684	60.74488
Stddev	.0008021	.048557	.003261	.009021	.0029114	.07905
%RSD	.1118727	2.651306	.3224238	.5275689	.5364025	.1301311
#1	.7160617	1.786671	1.009472	1.708925	.5416024	60.82578
#2	.7176206	1.824583	1.009836	1.701413	.5406207	60.74103
#3	.7171690	1.883056	1.015294	1.719375	.5460821	60.66783

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4427267	.1780944	.1901594	130.6766	.4795273	.2286932
Stddev	.0012022	.0007551	.0004810	.1445	.0018701	.0007844
%RSD	.2715370	.4239702	.2529443	.1105862	.3899954	.3430013
#1	.4433119	.1788768	.1896803	130.7908	.4773946	.2279002
#2	.4435243	.1780366	.1901555	130.7249	.4808870	.2287105
#3	.4413440	.1773700	.1906423	130.5141	.4803003	.2294688

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3617286	54.82798	.8522166	38.92371	.5425139	.0579057
Stddev	.0011766	.19141	.0032885	.16396	.0010841	.0006299
%RSD	.3252829	.3491189	.3858708	.4212438	.1998257	1.087740
#1	.3613016	54.61128	.8559515	38.84725	.5413637	.0574972
#2	.3608251	54.89869	.8509420	38.81194	.5435168	.0575888
#3	.3630591	54.97399	.8497562	39.11194	.5426611	.0586311

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	12.17581	.3688073	.6419167	24.03793	.3884061	.3491160
Stddev	.06365	.0047047	.0030500	.09875	.0024525	.0010884
%RSD	.5227345	1.275657	.4751399	.4108019	.6314156	.3117450
#1	12.12291	.3741149	.6416481	23.93942	.3894563	.3482883
#2	12.24644	.3651503	.6390099	24.13692	.3901585	.3487108
#3	12.15807	.3671567	.6450922	24.03745	.3856034	.3503488

Reviewed By:jaswal
On:10/17/2025 1:18:42 PM
Inst Id :P4
LB :LB137561

Sample Name: Q3345-07MS Acquired: 10/15/2025 17:45:45 Type: Unk
Method: 6010-200.7 NEW(v285) 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	.4016144	1.010751	F 79.33509	6.384753	F 10.98069	.2216491
Stddev	.0014019	.010090	.43342	.016148	.05707	.0013041
%RSD	.3490767	.9982493	.5463111	.2529216	.5197324	.5883717
#1	.3999961	1.020937	78.84781	6.378717	10.93865	.2205309
#2	.4023883	1.010555	79.47993	6.372491	10.95776	.2230816
#3	.4024588	1.000760	79.67754	6.403049	11.04566	.2213347

Elem	Sr4077
Units	ppm
Avg	.5940866
Stddev	.0025886
%RSD	.4357269
#1	.5961103
#2	.5949797
#3	.5911697

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5919.541	98141.76	8007.322	4591.672	6582.887
Stddev	6.614	90.08	47.971	27.244	3.986
%RSD	.1117345	.0917887	.5990843	.5933246	.0605533
#1	5912.191	98230.03	7954.869	4593.655	6587.472
#2	5925.015	98145.28	8018.131	4617.870	6580.938
#3	5921.416	98049.97	8048.966	4563.491	6580.250

Reviewed By:jaswal
On:10/17/2025 1:18:42 PM
Inst Id :P4
LB :LB137561

Sample Name: Q3345-07MSD Acquired: 10/15/2025 17:49:40 Type: Unk
Method: 6010-200.7 NEW(v285) 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	**.7412297**	**2.012429**	**1.057633**	**1.764606**	**.5845905**	**64.67134**
Stddev	.0044517	.010267	.002331	.004909	.0009197	1.31501
%RSD	.6005826	.5101968	.2204111	.2782141	.1573182	2.033370
#1	.7442564	2.001870	1.059787	1.769268	.5836182	65.25505
#2	.7433145	2.022377	1.057954	1.765068	.5847070	65.59344
#3	.7361182	2.013040	1.055158	1.759481	.5854464	63.16552

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4762956**	**.1852848**	**.1986041**	**140.8935**	**.4986445**	**.2397846**
Stddev	.0108450	.0040507	.0005821	2.9857	.0027543	.0000523
%RSD	2.276955	2.186182	.2930742	2.119142	.5523610	.0218280
#1	.4836636	.1877816	.1989968	142.4074	.4954996	.2398197
#2	.4813808	.1874616	.1988801	142.8190	.4998063	.2397244
#3	.4638424	.1806111	.1979353	137.4540	.5006275	.2398097

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3773837**	**58.55041**	**.9351263**	**41.88476**	**.5665918**	**.0601771**
Stddev	.0012996	.31700	.0217230	.98081	.0009185	.0005799
%RSD	.3443829	.5414135	2.323004	2.341686	.1621097	.9636334
#1	.3775913	58.26862	.9505485	42.31306	.5670234	.0607331
#2	.3785670	58.48898	.9445472	42.57857	.5672150	.0595759
#3	.3759927	58.89363	.9102832	40.76264	.5655370	.0602222

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**13.64004**	**.3864702**	**.6891289**	**25.39961**	**.4106995**	**.3817263**
Stddev	.07054	.0059940	.0009781	.18760	.0042814	.0010357
%RSD	.5171871	1.550967	.1419356	.7385883	1.042467	.2713147
#1	13.58591	.3874893	.6883646	25.28443	.4133506	.3819193
#2	13.61439	.3918894	.6887909	25.29832	.4129876	.3826520
#3	13.71982	.3800320	.6902312	25.61608	.4057602	.3806078

Reviewed By:jaswal
On:10/17/2025 1:18:42 PM
Inst Id :P4
LB :LB137561

Sample Name: Q3345-07MSD Acquired: 10/15/2025 17:49:40 Type: Unk
Method: 6010-200.7 NEW(v285) 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	.4393263	1.073559	F 83.24688	6.659020	F 11.82688	.2420001
Stddev	.0011101	.017816	.60219	.014484	.02766	.0033865
%RSD	.2526862	1.659527	.7233837	.2175025	.2338645	1.399395
#1	.4392170	1.077511	82.55459	6.642633	11.79515	.2431220
#2	.4382749	1.089068	83.53654	6.670108	11.84595	.2446833
#3	.4404870	1.054099	83.64951	6.664318	11.83953	.2381950

Elem	Sr4077
Units	ppm
Avg	.6394051
Stddev	.0129830
%RSD	2.030486
#1	.6476186
#2	.6461596
#3	.6244373

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5890.331	96226.51	7838.318	4581.515	6499.529
Stddev	26.383	341.90	180.470	18.013	15.647
%RSD	.4479116	.3553098	2.302411	.3931738	.2407466
#1	5873.056	96613.76	7723.098	4579.188	6493.944
#2	5877.238	96099.41	7745.553	4564.778	6487.441
#3	5920.700	95966.36	8046.304	4600.578	6517.203

Reviewed By:jaswal
On:10/17/2025 1:18:42 PM
Inst Id :P4
LB :LB137561

Sample Name: Q3345-07A Acquired: 10/15/2025 17:53:36 Type: Unk
Method: 6010-200.7 NEW(v285) 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	**.7489272**	**2.082024**	**1.046107**	**1.777102**	**.7480933**	**58.31728**
Stddev	.0003611	.065499	.001922	.006097	.0061536	.34454
%RSD	.0482119	3.145928	.1837365	.3430944	.8225718	.5908027
#1	.7493426	2.006494	1.047781	1.770431	.7507460	57.96296
#2	.7486885	2.123171	1.044008	1.782387	.7524756	58.33776
#3	.7487505	2.116409	1.046532	1.778487	.7410582	58.65113

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4788446**	**.1851699**	**.1954838**	**138.1484**	**.4862986**	**.2350170**
Stddev	.0028627	.0000400	.0003826	.7227	.0012838	.0005238
%RSD	.5978311	.0215784	.1957022	.5231225	.2640029	.2228983
#1	.4755401	.1851670	.1958740	137.3882	.4850816	.2355826
#2	.4804273	.1852112	.1954680	138.2305	.4876402	.2349198
#3	.4805665	.1851314	.1951094	138.8266	.4861739	.2345485

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3703592**	**58.35908**	**.9312700**	**40.73876**	**.5543761**	**.0595306**
Stddev	.0009859	.41102	.0040486	.30156	.0003455	.0007471
%RSD	.2662064	.7042934	.4347422	.7402375	.0623182	1.255037
#1	.3710268	57.91582	.9279395	40.39484	.5546185	.0586861
#2	.3708241	58.43384	.9300942	40.86350	.5539806	.0601054
#3	.3692268	58.72759	.9357764	40.95793	.5545294	.0598004

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**12.61381**	**.3817100**	**.6572510**	**25.09747**	**.4141118**	**.3958431**
Stddev	.07511	.0029696	.0003652	.16046	.0016867	.0007212
%RSD	.5954653	.7779604	.0555692	.6393599	.4073084	.1821956
#1	12.53071	.3794979	.6573362	24.91744	.4122200	.3954552
#2	12.67687	.3805471	.6568507	25.14954	.4146567	.3966753
#3	12.63384	.3850850	.6575661	25.22543	.4154588	.3953990

Reviewed By:jaswal
On:10/17/2025 1:18:42 PM
Inst Id :P4
LB :LB137561

Sample Name: Q3345-07A Acquired: 10/15/2025 17:53:36 Type: Unk
Method: 6010-200.7 NEW(v285) 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	.6556213	1.061169	F 74.56943	6.582857	F 11.36423	.2311542
Stddev	.0014365	.009445	.56903	.031280	.06956	.0018504
%RSD	.2191116	.8900606	.7630867	.4751712	.6120787	.8005061
#1	.6553787	1.051304	73.94400	6.553312	11.28630	.2303098
#2	.6543216	1.070128	74.70771	6.615623	11.42005	.2332761
#3	.6571638	1.062076	75.05657	6.579638	11.38633	.2298766

Elem	Sr4077
Units	ppm
Avg	.6343465
Stddev	.0023389
%RSD	.3687137
#1	.6321769
#2	.6340384
#3	.6368242

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5890.574	96521.88	7675.998	4667.342	6522.762
Stddev	5.412	448.70	19.555	19.142	7.231
%RSD	.0918688	.4648678	.2547515	.4101357	.1108653
#1	5892.768	97035.19	7698.468	4685.664	6522.811
#2	5894.544	96204.27	7662.840	4668.890	6529.969
#3	5884.410	96326.16	7666.685	4647.473	6515.506

Reviewed By:jaswal
On:10/17/2025 1:18:42 PM
Inst Id :P4
LB :LB137561

Sample Name: Q3150-06 Acquired: 10/15/2025 18:05:51 Type: Unk
Method: 6010-200.7 NEW(v285) 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	.1478140	-.004309	1.991721	-.011114	.0059420	40.58481
Stddev	.0032217	.006392	.005507	.004205	.0033188	.13726
%RSD	2.179578	148.3459	.2764817	37.83206	55.85400	.3382029
#1	.1441459	-.007379	1.986933	-.008650	.0021117	40.62599
#2	.1491108	-.008588	1.997739	-.015968	.0077507	40.43167
#3	.1501852	.003039	1.990491	-.008723	.0079636	40.69676

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.307440	.0061943	.0117471	1769.896	.0932203	.0729052
Stddev	.008250	.0000319	.0002668	33.328	.0011759	.0002666
%RSD	.6309982	.5145458	2.271041	1.883064	1.261422	.3656570
#1	1.298203	.0061923	.0120407	1765.403	.0920680	.0731389
#2	1.310045	.0061634	.0115195	1739.043	.0944185	.0729619
#3	1.314074	.0062270	.0116810	1805.244	.0931745	.0726148

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6841119	169.0919	2.645479	979.3104	.2478721	.2754924
Stddev	.0021488	1.5302	.019687	2.3757	.0008804	.0012468
%RSD	.3141044	.9049410	.7441653	.2425860	.3551850	.4525742
#1	.6831088	167.5666	2.624137	977.9175	.2474578	.2748418
#2	.6865789	170.6269	2.649371	977.9603	.2488833	.2769300
#3	.6826482	169.0824	2.662929	982.0535	.2472754	.2747055

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.899905	.2796600	1.607831	11.65263	.2122821	.0112797
Stddev	.063298	.0011025	.002546	.07877	.0034402	.0004566
%RSD	1.291813	.3942124	.1583728	.6759613	1.620596	4.047748
#1	4.827407	.2800785	1.605610	11.56502	.2102285	.0108937
#2	4.944197	.2784096	1.607273	11.67529	.2162538	.0111618
#3	4.928109	.2804920	1.610611	11.71759	.2103640	.0117837

Reviewed By:jaswal
On:10/17/2025 1:18:42 PM
Inst Id :P4
LB :LB137561

Sample Name: Q3150-06 Acquired: 10/15/2025 18:05:51 Type: Unk
Method: 6010-200.7 NEW(v285) 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	.5875403	1.725384	F 11.10005	4.985004	F 28.83809	-.182562
Stddev	.0035620	.009804	.05545	.014492	.17532	.004302
%RSD	.6062545	.5682127	.4995124	.2907035	.6079422	2.356343
#1	.5881445	1.735552	11.06115	4.986701	28.77558	-.182375
#2	.5907615	1.715990	11.16354	4.998573	29.03609	-.178357
#3	.5837148	1.724610	11.07546	4.969739	28.70259	-.186954

Elem	Sr4077
Units	ppm
Avg	1.139696
Stddev	.007146
%RSD	.6270472
#1	1.132557
#2	1.139681
#3	1.146850

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5179.878	87169.87	7944.789	4006.482	4969.151
Stddev	11.561	257.04	45.919	10.642	10.931
%RSD	.2231828	.2948769	.5779826	.2656274	.2199791
#1	5191.319	87465.83	7969.246	4017.189	4972.175
#2	5168.201	87002.44	7973.303	3995.905	4957.027
#3	5180.114	87041.35	7891.817	4006.350	4978.253

Reviewed By:jaswal
On:10/17/2025 1:18:42 PM
Inst Id :P4
LB :LB137561

Sample Name: CCV04 Acquired: 10/15/2025 18:10:00 Type: Unk
Method: 6010-200.7 NEW(v285) 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	**4.754381**	**4.977365**	**4.712809**	**4.800579**	**4.797356**	**9.548208**	**9.160574**
Stddev	.019190	.198130	.002816	.021474	.007266	.037369	.035855
%RSD	.4036193	3.980621	.0597500	.4473302	.1514489	.3913733	.3914005
#1	4.771359	5.113552	4.714508	4.825011	4.803919	9.525698	9.193398
#2	4.758224	5.068473	4.709559	4.792033	4.789548	9.591344	9.166014
#3	4.733561	4.750069	4.714361	4.784694	4.798602	9.527581	9.122311

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2436024**	**2.358532**	**23.82758**	**.9755991**	**2.353276**	**1.196164**	**4.679473**
Stddev	.0020172	.002534	.06004	.0013759	.002019	.000222	.025811
%RSD	.8280842	.1074285	.2519836	.1410365	.0858131	.0185763	.5515862
#1	.2431073	2.360414	23.81595	.9759328	2.355516	1.196239	4.694528
#2	.2458210	2.359531	23.89258	.9740869	2.352721	1.196339	4.649669
#3	.2418787	2.355651	23.77420	.9767774	2.351593	1.195914	4.694221

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.339364**	**24.05676**	**2.363546**	**1.202182**	**25.01262**	**2.387202**	**2.409185**
Stddev	.011328	.09708	.001654	.001932	.20152	.009066	.011219
%RSD	.4842199	.4035374	.0699779	.1606709	.8056754	.3797680	.4656744
#1	2.347694	24.12606	2.365453	1.201109	25.17238	2.393650	2.421762
#2	2.343932	24.09840	2.362687	1.204411	24.78622	2.391121	2.400208
#3	2.326466	23.94580	2.362499	1.201025	25.07927	2.376837	2.405586

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**22.80501**	**4.821045**	**4.786563**	**4.686627**	**4.711508**	**4.885745**	**4.848915**
Stddev	.11022	.052905	.010358	.019199	.017437	.017878	.043765
%RSD	.4833306	1.097382	.2163941	.4096602	.3700940	.3659116	.9025692
#1	22.87259	4.802846	4.798486	4.700695	4.716943	4.892555	4.874094
#2	22.67782	4.880648	4.781416	4.694432	4.725580	4.865464	4.874271
#3	22.86463	4.779642	4.779787	4.664755	4.692001	4.899218	4.798380

Reviewed By:jaswal
On:10/17/2025 1:18:42 PM
Inst Id :P4
LB :LB137561

Sample Name: CCV04 Acquired: 10/15/2025 18:10:00 Type: Unk
Method: 6010-200.7 NEW(v285) 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	**4.642787**	**4.531575**	**4.623210**
Stddev	.058596	.008592	.056962
%RSD	1.262084	.1895960	1.232082
#1	4.688826	4.538872	4.579915
#2	4.662706	4.533747	4.687738
#3	4.576828	4.522106	4.601976

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**6004.574**	**98618.48**	**7596.668**	**4680.468**	**7008.297**
Stddev	12.201	264.48	42.362	39.488	12.950
%RSD	.2031904	.2681895	.5576433	.8436845	.1847788
#1	6016.740	98756.43	7627.496	4683.885	7021.929
#2	6004.643	98785.47	7548.363	4718.136	6996.159
#3	5992.339	98313.54	7614.145	4639.382	7006.801

Reviewed By:jaswal
On:10/17/2025 1:18:42 PM
Inst Id :P4
LB :LB137561

Sample Name: CCB04 Acquired: 10/15/2025 18:14:03 Type: Unk
Method: 6010-200.7 NEW(v285) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCB04 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0009945**	**-.003286**	**.0007327**	**-.003413**	**-.000992**	**-.003164**	**-.003387**
Stddev	.0009934	.000818	.0004449	.002296	.000866	.002951	.000691
%RSD	99.89258	24.88893	60.72347	67.27881	87.34718	93.26841	20.40088
#1	.0001571	-.004203	.0011589	-.005923	-.001132	-.006570	-.002811
#2	.0007342	-.003025	.0007679	-.002898	-.000064	-.001381	-.003196
#3	.0020921	-.002631	.0002712	-.001418	-.001779	-.001540	-.004153

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000028**	**.0000330**	**.0222723**	**.0000726**	**.0000536**	**-.000028**	**-.005040**
Stddev	.000034	.0000171	.0118483	.0004164	.0000538	.000144	.004455
%RSD	120.7404	51.76220	53.19770	573.7309	100.5101	508.5878	88.38072
#1	-.000020	.0000356	.0358147	.0005517	.0000028	.000072	-.006662
#2	.000001	.0000148	.0171844	-.000202	.0001100	-.000194	-.000002
#3	-.000066	.0000487	.0138176	-.000132	.0000478	.000037	-.008457

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000293**	**.0015142**	**-.000036**	**.0000158**	**.1260676**	**-.002962**	**.0002906**
Stddev	.000161	.0190725	.000164	.0004840	.0116789	.000626	.0003410
%RSD	54.80080	1259.553	459.3280	3069.988	9.263989	21.11850	117.3107
#1	-.000462	.0191388	-.000200	-.000543	.1149279	-.002482	.0006281
#2	-.000142	-.018734	-.000035	.000309	.1250551	-.002735	.0002975
#3	-.000274	.004138	.000128	.000281	.1382197	-.003670	-.000054

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0632943**	**-.004689**	**.0002599**	**-.001065**	**.0018450**	**-.009746**	**-.000124**
Stddev	.0280198	.000531	.0000940	.000694	.0016606	.017842	.000068
%RSD	44.26910	11.31876	36.16647	65.15128	90.00513	183.0642	54.95021
#1	.0956147	-.005128	.0003556	-.001761	.0021098	-.000036	-.000175
#2	.0458479	-.004099	.0001678	-.001062	.0000679	.001134	-.000047
#3	.0484204	-.004840	.0002561	-.000373	.0033573	-.030337	-.000151

Reviewed By:jaswal
On:10/17/2025 1:18:42 PM
Inst Id :P4
LB :LB137561

Sample Name: CCB04 Acquired: 10/15/2025 18:14:03 Type: Unk
Method: 6010-200.7 NEW(v285) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCB04 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0085064	-.000132	.0001229
Stddev	.0017173	.000989	.0000245
%RSD	20.18869	750.2589	19.91859
#1	.0093376	-.000835	.0001066
#2	.0065316	-.000560	.0001510
#3	.0096500	.001000	.0001109

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6078.308	99650.57	7626.981	4761.889	7858.114
Stddev	35.844	435.72	11.546	36.886	49.059
%RSD	.5897046	.4372509	.1513871	.7746176	.6243041
#1	6100.823	99915.30	7613.670	4759.756	7889.042
#2	6097.126	99147.67	7634.290	4726.115	7883.751
#3	6036.974	99888.73	7632.982	4799.795	7801.549

Reviewed By:jaswal
On:10/17/2025 1:18:42 PM
Inst Id :P4
LB :LB137561

Sample Name: Q3150-07 Acquired: 10/15/2025 18:18:22 Type: Unk
Method: 6010-200.7 NEW(v285) 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	.2401965	-.033787	2.271598	.0134800	-.005028	128.2710
Stddev	.0033940	.002752	.006727	.0061845	.001996	.1628
%RSD	1.412993	8.145754	.2961455	45.87954	39.70427	.1269327
#1	.2396093	-.035103	2.269468	.0083318	-.007289	128.2718
#2	.2371345	-.030624	2.266194	.0203402	-.003510	128.4334
#3	.2438458	-.035635	2.279133	.0117679	-.004284	128.1077

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.287707	.0189969	.0108122	354.1931	.7728527	.2357992
Stddev	.007279	.0000888	.0005987	.4949	.0040993	.0002053
%RSD	.5652707	.4676819	5.536863	.1397309	.5304089	.0870689
#1	1.295682	.0190958	.0114819	354.0487	.7693216	.2356800
#2	1.286017	.0189239	.0103290	354.7442	.7718881	.2356813
#3	1.281422	.0189710	.0106258	353.7865	.7773482	.2360363

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8018364	350.8011	1.657244	173.1008	.8658579	-.057294
Stddev	.0022814	1.6424	.006936	.3559	.0028640	.000469
%RSD	.2845170	.4681723	.4185278	.2056126	.3307677	.8191185
#1	.8028224	349.5735	1.663929	172.7411	.8672600	-.057757
#2	.7992278	350.1630	1.657722	173.4528	.8625630	-.057308
#3	.8034589	352.6667	1.650082	173.1084	.8677506	-.056818

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	15.61842	.8001906	.8823585	10.72937	.2416232	.0572370
Stddev	.05543	.0038976	.0017557	.01616	.0110256	.0001764
%RSD	.3549234	.4870877	.1989751	.1506224	4.563126	.3081087
#1	15.62062	.7959311	.8825508	10.71191	.2346088	.0573647
#2	15.56191	.8035790	.8805146	10.73242	.2359292	.0570358
#3	15.67271	.8010618	.8840102	10.74380	.2543316	.0573105

Reviewed By:jaswal
On:10/17/2025 1:18:42 PM
Inst Id :P4
LB :LB137561

Sample Name: Q3150-07 Acquired: 10/15/2025 18:18:22 Type: Unk
Method: 6010-200.7 NEW(v285) 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	.0353942	4.384936	7.455909	6.247856	F 12.79086	.1346732
Stddev	.0006978	.011865	.108172	.030931	.07296	.0009353
%RSD	1.971382	.2705743	1.450823	.4950647	.5704079	.6945018
#1	.0351169	4.386040	7.532027	6.247802	12.81972	.1343050
#2	.0361880	4.396209	7.503615	6.216952	12.70788	.1339782
#3	.0348778	4.372558	7.332085	6.278814	12.84497	.1357366

Elem	Sr4077
Units	ppm
Avg	.9910155
Stddev	.0072974
%RSD	.7363600
#1	.9983017
#2	.9910377
#3	.9837069

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5945.839	98130.37	8095.793	4683.378	5842.855
Stddev	13.894	303.26	47.637	22.106	12.973
%RSD	.2336813	.3090398	.5884138	.4720086	.2220326
#1	5954.327	98275.03	8044.185	4687.267	5850.533
#2	5953.386	98334.21	8105.113	4703.282	5850.157
#3	5929.805	97781.86	8138.081	4659.586	5827.877

Reviewed By:jaswal
On:10/17/2025 1:18:42 PM
Inst Id :P4
LB :LB137561

Sample Name: Q3345-01 Acquired: 10/15/2025 18:22:22 Type: Unk
Method: 6010-200.7 NEW(v285) 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	.1057280	-.014985	3.471702	.0004381	-.002131	90.63554
Stddev	.0019943	.003100	.004645	.0018429	.000750	.19655
%RSD	1.886278	20.68894	.1337937	420.7082	35.20593	.2168566
#1	.1080283	-.018553	3.475025	.0025411	-.002364	90.75882
#2	.1046708	-.013444	3.473686	-.000895	-.002737	90.40887
#3	.1044848	-.012957	3.466395	-.000332	-.001292	90.73892

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.776108	.0073920	.0217474	232.0690	.2226180	.0726183
Stddev	.007010	.0000904	.0000904	.8295	.0005158	.0004277
%RSD	.3946732	1.222287	.4156418	.3574529	.2317088	.5889330
#1	1.779454	.0074557	.0218124	232.5229	.2230852	.0724060
#2	1.768053	.0072886	.0216442	231.1115	.2220644	.0731106
#3	1.780819	.0074316	.0217857	232.5725	.2227043	.0723383

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4664125	172.2308	2.756070	68.00485	.1628823	-.025686
Stddev	.0010059	1.0784	.014113	.25147	.0001453	.000308
%RSD	.2156759	.6261351	.5120552	.3697860	.0892146	1.198717
#1	.4653471	172.7733	2.762842	68.14693	.1627455	-.026009
#2	.4665445	172.9303	2.739847	67.71450	.1628664	-.025653
#3	.4673460	170.9889	2.765519	68.15312	.1630349	-.025396

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.119928	.2834390	3.412717	11.46299	.1194966	.0047670
Stddev	.018552	.0028854	.011832	.09587	.0066882	.0002045
%RSD	1.656495	1.018010	.3467179	.8363761	5.596968	4.289884
#1	1.111492	.2866740	3.424192	11.47066	.1176080	.0046352
#2	1.141198	.2811312	3.413402	11.55480	.1269261	.0050026
#3	1.107093	.2825117	3.400557	11.36351	.1139559	.0046632

Reviewed By:jaswal
On:10/17/2025 1:18:42 PM
Inst Id :P4
LB :LB137561

Sample Name: Q3345-01 Acquired: 10/15/2025 18:22:22 Type: Unk
Method: 6010-200.7 NEW(v285) 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	.0883395	1.815553	F 15.62610	5.648686	1.858367	.1174007
Stddev	.0008542	.021660	.16030	.028771	.008765	.0005675
%RSD	.9669593	1.193047	1.025874	.5093413	.4716299	.4833990
#1	.0884481	1.816625	15.67377	5.681672	1.868482	.1180559
#2	.0891342	1.793377	15.75717	5.635614	1.853010	.1170627
#3	.0874362	1.836658	15.44737	5.628772	1.853609	.1170835

Elem	Sr4077
Units	ppm
Avg	.1434451
Stddev	.0019015
%RSD	1.325621
#1	.1438103
#2	.1413874
#3	.1451375

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6154.517	101135.2	8339.676	4783.722	6323.287
Stddev	15.472	437.1	54.303	22.372	18.578
%RSD	.2513920	.4322333	.6511463	.4676594	.2937974
#1	6151.403	100884.0	8314.953	4763.567	6309.059
#2	6140.839	100881.6	8401.942	4779.806	6316.498
#3	6171.309	101640.0	8302.133	4807.793	6344.305

Reviewed By:jaswal
On:10/17/2025 1:18:42 PM
Inst Id :P4
LB :LB137561

Sample Name: Q3345-03 Acquired: 10/15/2025 18:26:25 Type: Unk
Method: 6010-200.7 NEW(v285) 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	.0369193	-.012265	.2359413	.0016327	-.009067	85.38103
Stddev	.0013068	.001021	.0013009	.0032291	.000344	.08426
%RSD	3.539550	8.323827	.5513689	197.7783	3.793576	.0986872
#1	.0354719	-.013431	.2363715	.0053242	-.008854	85.28382
#2	.0372736	-.011830	.2344798	-.000668	-.009463	85.43304
#3	.0380124	-.011533	.2369727	.000242	-.008883	85.42624

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4555430	.0055277	.0044046	73.90728	.1552324	.0633792
Stddev	.0008537	.0000663	.0000803	.19884	.0003308	.0003025
%RSD	.1874106	1.199154	1.823311	.2690446	.2130713	.4773204
#1	.4548794	.0056020	.0043125	73.81494	.1548539	.0630299
#2	.4552434	.0054747	.0044600	73.77139	.1554658	.0635492
#3	.4565061	.0055064	.0044412	74.13550	.1553776	.0635585

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1678546	139.9827	1.121027	26.94063	.1375610	-.023719
Stddev	.0014164	.3079	.002932	.13592	.0002405	.000332
%RSD	.8438167	.2199708	.2615486	.5045007	.1748094	1.398381
#1	.1664445	140.0936	1.119760	26.78425	.1373371	-.024023
#2	.1692772	139.6346	1.118942	27.03027	.1378152	-.023770
#3	.1678422	140.2197	1.124379	27.00738	.1375308	-.023366

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.148149	.1975694	.6860914	15.89808	.0906033	.0035352
Stddev	.006999	.0018681	.0004887	.03029	.0028769	.0000892
%RSD	.6095601	.9455425	.0712249	.1905543	3.175263	2.522796
#1	1.154828	.1977681	.6858396	15.93303	.0935221	.0034617
#2	1.140869	.1956098	.6866546	15.88197	.0905176	.0035096
#3	1.148749	.1993302	.6857800	15.87924	.0877702	.0036344

Reviewed By:jaswal
On:10/17/2025 1:18:42 PM
Inst Id :P4
LB :LB137561

Sample Name: Q3345-03 Acquired: 10/15/2025 18:26:25 Type: Unk
Method: 6010-200.7 NEW(v285) 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	.1967062	2.183239	F 23.45045	3.138000	2.344941	.1249203
Stddev	.0011571	.011903	.30432	.023710	.019027	.0006011
%RSD	.5882450	.5452094	1.297733	.7555643	.8113964	.4811690
#1	.1968101	2.179287	23.78118	3.112833	2.327350	.1242489
#2	.1955006	2.196615	23.38792	3.141253	2.342338	.1251040
#3	.1978079	2.173814	23.18225	3.159916	2.365135	.1254082

Elem	Sr4077
Units	ppm
Avg	.1739764
Stddev	.0004677
%RSD	.2688010
#1	.1734382
#2	.1742073
#3	.1742837

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6298.074	100845.7	8366.690	4740.507	6858.891
Stddev	8.449	431.3	37.199	23.509	11.293
%RSD	.1341442	.4276541	.4446024	.4959188	.1646459
#1	6301.712	100909.3	8384.838	4740.256	6871.443
#2	6288.416	101241.7	8391.331	4764.140	6849.554
#3	6304.094	100386.2	8323.901	4717.124	6855.678

Reviewed By:jaswal
On:10/17/2025 1:18:42 PM
Inst Id :P4
LB :LB137561

Sample Name: Q3345-06DUP Acquired: 10/15/2025 18:30:27 Type: Unk
Method: 6010-200.7 NEW(v285) 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	**.0384888**	**-.014016**	**.2436307**	**.0037099**	**-.008138**	**88.75130**
Stddev	.0020798	.004022	.0011926	.0034584	.002329	.26927
%RSD	5.403684	28.69599	.4895290	93.22125	28.62090	.3034025
#1	.0364712	-.009391	.2426079	.0061636	-.008418	88.79958
#2	.0406256	-.016692	.2433434	.0052116	-.005682	88.46115
#3	.0383696	-.015966	.2449407	-.000246	-.010315	88.99316

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4764020**	**.0057473**	**.0048535**	**77.00062**	**.1600324**	**.0661948**
Stddev	.0047075	.0000689	.0000439	.40500	.0010010	.0003166
%RSD	.9881279	1.199489	.9035217	.5259761	.6255176	.4783301
#1	.4767249	.0057595	.0048561	76.84797	.1600424	.0658310
#2	.4715414	.0058093	.0048085	76.69412	.1610284	.0663451
#3	.4809397	.0056730	.0048961	77.45976	.1590264	.0664083

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1756294**	**142.3660**	**1.176239**	**28.06735**	**.1438609**	**-.023555**
Stddev	.0010529	.6177	.009169	.08978	.0004495	.000271
%RSD	.5995265	.4338863	.7795072	.3198636	.3124176	1.150475
#1	.1744250	141.7873	1.171123	28.12225	.1433714	-.023818
#2	.1760875	142.2941	1.170770	27.96374	.1442550	-.023569
#3	.1763757	143.0165	1.186824	28.11605	.1439562	-.023277

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.177585**	**.2008094**	**.6970685**	**16.14370**	**.0994688**	**.0035401**
Stddev	.009930	.0016967	.0008576	.04674	.0010009	.0000363
%RSD	.8432390	.8449228	.1230284	.2895482	1.006260	1.024460
#1	1.180868	.2022148	.6969544	16.11734	.0991875	.0035398
#2	1.166429	.1989246	.6962736	16.11609	.1005802	.0035765
#3	1.185457	.2012889	.6979774	16.19767	.0986386	.0035040

Reviewed By:jaswal
On:10/17/2025 1:18:42 PM
Inst Id :P4
LB :LB137561

Sample Name: Q3345-06DUP Acquired: 10/15/2025 18:30:27 Type: Unk
Method: 6010-200.7 NEW(v285) 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	.2062560	2.273704	F 23.75400	3.291920	2.435043	.1277733
Stddev	.0014271	.024401	.31334	.025555	.022327	.0015643
%RSD	.6918846	1.073198	1.319118	.7763048	.9169223	1.224297
#1	.2051923	2.283449	24.05170	3.263482	2.409891	.1287574
#2	.2056979	2.245936	23.78324	3.299314	2.442717	.1259695
#3	.2078777	2.291727	23.42706	3.312963	2.452522	.1285931

Elem	Sr4077
Units	ppm
Avg	.1844907
Stddev	.0029348
%RSD	1.590765
#1	.1836382
#2	.1820765
#3	.1877573

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6080.749	100099.6	8083.389	4761.297	6586.869
Stddev	11.130	153.3	35.265	4.589	14.720
%RSD	.1830379	.1531014	.4362645	.0963776	.2234726
#1	6091.345	100171.6	8083.976	4757.297	6601.933
#2	6081.751	99923.7	8118.356	4760.288	6586.154
#3	6069.152	100203.7	8047.834	4766.307	6572.519

Reviewed By:jaswal
On:10/17/2025 1:18:42 PM
Inst Id :P4
LB :LB137561

Sample Name: Q3345-06LX5 Acquired: 10/15/2025 18:34:31 Type: Unk
Method: 6010-200.7 NEW(v285) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0103027	-.003178	.0513203	-.000636	-.002453	20.34607	.1092104
Stddev	.0003316	.002423	.0018396	.002474	.000618	.05440	.0002774
%RSD	3.218706	76.22651	3.584548	388.8177	25.17530	.2673779	.2539992
#1	.0100003	-.004790	.0509030	-.003157	-.003117	20.28376	.1095305
#2	.0106573	-.000392	.0533326	-.000541	-.002348	20.38413	.1090391
#3	.0102506	-.004353	.0497251	.001789	-.001895	20.37032	.1090617

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0013580	.0005133	17.73949	.0366011	.0136342	.0409790	31.84127
Stddev	.0000328	.0000432	.03843	.0005277	.0001042	.0013815	.30701
%RSD	2.417681	8.410816	.2166340	1.441640	.7640294	3.371292	.9641808
#1	.0013700	.0005144	17.69720	.0368708	.0136971	.0420403	31.82617
#2	.0013208	.0005558	17.77227	.0369393	.0136916	.0414798	31.54208
#3	.0013830	.0004695	17.74900	.0359930	.0135140	.0394169	32.15554

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2726667	6.475455	.0300221	-.005187	.3421957	.0444423	.1559725
Stddev	.0010541	.048437	.0003114	.000836	.0118939	.0019014	.0009996
%RSD	.3866055	.7480069	1.037205	16.12466	3.475765	4.278387	.6409095
#1	.2731694	6.419525	.0302602	-.004584	.3309539	.0426120	.1567534
#2	.2733753	6.503655	.0301364	-.006142	.3546490	.0443074	.1563182
#3	.2714553	6.503183	.0296697	-.004835	.3409842	.0464076	.1548459

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.625830	.0126442	.0007919	.0405566	.5366942	6.436790	.6662163
Stddev	.025574	.0026990	.0000264	.0007491	.0025128	.055075	.0096036
%RSD	.7053304	21.34541	3.335186	1.847068	.4681952	.8556264	1.441519
#1	3.649964	.0126332	.0007823	.0413436	.5340086	6.480872	.6705363
#2	3.599025	.0099508	.0007716	.0404739	.5389881	6.375053	.6729012
#3	3.628500	.0153487	.0008217	.0398522	.5370860	6.454447	.6552114

Reviewed By:jaswal
On:10/17/2025 1:18:42 PM
Inst Id :P4
LB :LB137561

Sample Name: Q3345-06LX5 Acquired: 10/15/2025 18:34:31 Type: Unk
Method: 6010-200.7 NEW(v285) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.4865661	.0290981	.0437894
Stddev	.0081336	.0002078	.0003767
%RSD	1.671638	.7139524	.8602267
#1	.4922520	.0291600	.0439848
#2	.4901969	.0288664	.0440283
#3	.4772495	.0292678	.0433552

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5984.557	98046.49	7570.067	4749.959	7228.616
Stddev	22.007	351.75	42.557	22.047	34.205
%RSD	.3677344	.3587593	.5621708	.4641542	.4731832
#1	5988.464	97671.69	7566.267	4728.017	7239.940
#2	5960.858	98369.43	7529.537	4772.110	7190.185
#3	6004.349	98098.36	7614.396	4749.750	7255.722

Reviewed By:jaswal
On:10/17/2025 1:18:42 PM
Inst Id :P4
LB :LB137561

Sample Name: Q3345-06MS Acquired: 10/15/2025 18:38:41 Type: Unk
Method: 6010-200.7 NEW(v285) 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	.7164874	1.876697	1.098087	1.645314	.4116812	96.52973
Stddev	.0026453	.061457	.002085	.004193	.0018827	.43645
%RSD	.3692058	3.274717	.1898636	.2548422	.4573250	.4521415
#1	.7156698	1.813131	1.100098	1.649298	.4115523	96.76333
#2	.7143475	1.935801	1.095935	1.645703	.4098661	96.79966
#3	.7194450	1.881160	1.098229	1.640940	.4136250	96.02620

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6977524	.1908315	.1875607	75.12554	.5237379	.2851656
Stddev	.0019995	.0025295	.0001870	.32439	.0025054	.0000920
%RSD	.2865617	1.325499	.0997231	.4318013	.4783677	.0322506
#1	.7000585	.1927431	.1875592	75.42189	.5208626	.2851588
#2	.6965031	.1917882	.1873745	75.17575	.5248990	.2850773
#3	.6966956	.1879632	.1877485	74.77896	.5254522	.2852608

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4600907	140.5405	1.688344	30.02254	.6133864	.0469481
Stddev	.0004770	1.5672	.009796	.20498	.0007597	.0007874
%RSD	.1036750	1.115091	.5802133	.6827455	.1238564	1.677106
#1	.4600577	139.7652	1.698782	30.14514	.6134183	.0464016
#2	.4596311	139.5120	1.679350	30.13657	.6126112	.0465920
#3	.4605834	142.3441	1.686901	29.78590	.6141296	.0478506

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.469348	.4643491	.8883293	26.01189	.3997642	.3612352
Stddev	.072779	.0042991	.0030087	.27198	.0041545	.0008944
%RSD	1.628395	.9258335	.3386942	1.045607	1.039243	.2475988
#1	4.401478	.4681873	.8865314	25.80805	.3991619	.3611071
#2	4.460364	.4597035	.8918028	25.90690	.3959437	.3604117
#3	4.546201	.4651564	.8866538	26.32072	.4041870	.3621868

Reviewed By:jaswal
On:10/17/2025 1:18:42 PM
Inst Id :P4
LB :LB137561

Sample Name: Q3345-06MS Acquired: 10/15/2025 18:38:41 Type: Unk
Method: 6010-200.7 NEW(v285) 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	**.6551975**	**2.788752**	F **20.48590**	**8.469599**	**2.083788**	**.3254774**
Stddev	.0022608	.018072	.08512	.016250	.011016	.0010860
%RSD	.3450586	.6480199	.4155203	.1918633	.5286569	.3336612
#1	.6561475	2.809617	20.42179	8.487892	2.071088	.3247754
#2	.6526167	2.777998	20.45343	8.464068	2.089519	.3267283
#3	.6568284	2.778643	20.58248	8.456836	2.090757	.3249285

Elem	Sr4077
Units	ppm
Avg	**.3587136**
Stddev	.0029175
%RSD	.8133281
#1	.3616822
#2	.3586085
#3	.3558500

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**6278.261**	**99948.45**	**7819.632**	**4827.674**	**6709.665**
Stddev	16.497	477.18	75.814	23.448	9.447
%RSD	.2627569	.4774250	.9695325	.4856998	.1408030
#1	6287.662	100390.9	7755.793	4854.214	6707.776
#2	6287.908	100011.6	7799.674	4819.048	6719.914
#3	6259.213	99442.8	7903.428	4809.762	6701.305

Reviewed By:jaswal
On:10/17/2025 1:18:42 PM
Inst Id :P4
LB :LB137561

Sample Name: Q3345-06MSD Acquired: 10/15/2025 18:42:37 Type: Unk
Method: 6010-200.7 NEW(v285) 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	.7523910	1.923497	1.137851	1.733952	.4086894	115.5276
Stddev	.0027561	.031347	.001900	.000410	.0030217	4.0878
%RSD	.3663127	1.629688	.1670094	.0236188	.7393743	3.538364
#1	.7493568	1.889079	1.139576	1.734230	.4060547	112.1536
#2	.7547395	1.931000	1.138163	1.734145	.4080256	120.0733
#3	.7530768	1.950412	1.135814	1.733482	.4119878	114.3559

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7296371	.1960254	.1956945	128.5442	.5652578	.2686699
Stddev	.0282894	.0065081	.0004214	4.5947	.0025601	.0003143
%RSD	3.877192	3.320050	.2153505	3.574440	.4529044	.1169891
#1	.7091911	.1908243	.1953028	124.8442	.5626603	.2685527
#2	.7619228	.2033235	.1961404	133.6872	.5653342	.2690260
#3	.7177975	.1939284	.1956402	127.1011	.5677788	.2684310

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4361644	165.5741	1.546423	39.97083	.6500571	.0449314
Stddev	.0003519	.6552	.053355	1.48314	.0014751	.0005082
%RSD	.0806828	.3956968	3.450243	3.710546	.2269154	1.130994
#1	.4358141	165.2432	1.507711	38.77003	.6505288	.0453870
#2	.4365179	166.3287	1.607286	41.62870	.6512385	.0443834
#3	.4361613	165.1503	1.524271	39.51374	.6484038	.0450239

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.469215	.4995433	.9588041	27.91985	.3575339	.3701269
Stddev	.035664	.0200603	.0032708	.01362	.0016578	.0005246
%RSD	.7979971	4.015723	.3411338	.0487904	.4636802	.1417347
#1	4.490778	.4829827	.9620862	27.93273	.3590576	.3695274
#2	4.488818	.5218495	.9587813	27.90559	.3577755	.3703515
#3	4.428049	.4937978	.9555447	27.92123	.3557685	.3705018

Reviewed By:jaswal
On:10/17/2025 1:18:42 PM
Inst Id :P4
LB :LB137561

Sample Name: Q3345-06MSD Acquired: 10/15/2025 18:42:37 Type: Unk
Method: 6010-200.7 NEW(v285) 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	.6653058	2.732677	F 20.00491	9.324843	4.765754	.3366862
Stddev	.0022180	.096728	.18863	.028203	.012621	.0113586
%RSD	.3333834	3.539668	.9429081	.3024457	.2648182	3.373634
#1	.6653244	2.659977	19.79017	9.309824	4.755802	.3288907
#2	.6675146	2.842459	20.08071	9.357377	4.779950	.3497184
#3	.6630786	2.695596	20.14384	9.307329	4.761512	.3314494

Elem	Sr4077
Units	ppm
Avg	.4631129
Stddev	.0206810
%RSD	4.465650
#1	.4478286
#2	.4866452
#3	.4548649

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6065.139	97409.51	7783.138	4596.819	6405.429
Stddev	10.636	325.89	276.694	22.246	14.895
%RSD	.1753692	.3345519	3.555048	.4839500	.2325326
#1	6067.619	97783.92	8017.867	4597.506	6399.214
#2	6053.482	97189.70	7478.059	4574.238	6394.648
#3	6074.316	97254.91	7853.487	4618.715	6422.424

Reviewed By:jaswal
On:10/17/2025 1:18:42 PM
Inst Id :P4
LB :LB137561

Sample Name: Q3345-06A Acquired: 10/15/2025 18:46:33 Type: Unk
Method: 6010-200.7 NEW(v285) 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	**.7107189**	**1.780614**	**1.112736**	**1.662828**	**.6764180**	**90.74152**
Stddev	.0607314	.168287	.071876	.145657	.0764044	.27964
%RSD	8.545070	9.451040	6.459388	8.759617	11.29545	.3081705
#1	.6476953	1.605316	1.040630	1.513384	.5978912	90.45058
#2	.7155977	1.795645	1.113197	1.670724	.6808563	90.76568
#3	.7688638	1.940881	1.184380	1.804377	.7505066	91.00829

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5597461**	**.1303085**	**.1823886**	**77.49126**	**.4265921**	**.2485429**
Stddev	.0112075	.0119887	.0154034	.33917	.0261439	.0159332
%RSD	2.002238	9.200255	8.445356	.4376855	6.128536	6.410631
#1	.5495420	.1178988	.1667103	77.14684	.4005065	.2327811
#2	.5579551	.1312002	.1829539	77.50202	.4264761	.2482055
#3	.5717412	.1418265	.1975015	77.82492	.4527938	.2646421

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4264674**	**145.5383**	**1.247982**	**29.06037**	**.5963109**	**.0246301**
Stddev	.0208044	1.0763	.012979	.10286	.0370240	.0046763
%RSD	4.878307	.7395548	1.039984	.3539681	6.208836	18.98598
#1	.4064846	144.5391	1.234463	28.94182	.5598895	.0200661
#2	.4249115	145.3977	1.249139	29.12610	.5951339	.0244131
#3	.4480060	146.6780	1.260343	29.11318	.6339093	.0294110

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.546505**	**.3424437**	**.8348646**	**21.41598**	**.2679440**	**.3524876**
Stddev	.146704	.0098652	.0129316	.50168	.0156968	.0418486
%RSD	5.760989	2.880814	1.548945	2.342540	5.858228	11.87235
#1	2.420528	.3350765	.8213329	20.96565	.2546608	.3091289
#2	2.511417	.3386030	.8361627	21.32558	.2639060	.3556920
#3	2.707572	.3536516	.8470981	21.95671	.2852653	.3926419

Reviewed By:jaswal
On:10/17/2025 1:18:42 PM
Inst Id :P4
LB :LB137561

Sample Name: Q3345-06A Acquired: 10/15/2025 18:46:33 Type: Unk
Method: 6010-200.7 NEW(v285) 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	.8211663	2.426717	F 29.65003	8.482196	2.372609	.2111030
Stddev	.0735784	.021653	.15014	.481890	.017160	.0073157
%RSD	8.960231	.8922608	.5063660	5.681191	.7232337	3.465461
#1	.7473127	2.401753	29.75317	8.009789	2.378629	.2038655
#2	.8217198	2.440390	29.71913	8.463760	2.353251	.2109490
#3	.8944663	2.438008	29.47778	8.973039	2.385948	.2184945

Elem	Sr4077
Units	ppm
Avg	.2656055
Stddev	.0087662
%RSD	3.300470
#1	.2575170
#2	.2643791
#3	.2749203

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6050.000	97586.71	8023.264	4612.202	6573.957
Stddev	39.461	564.18	46.466	12.002	47.692
%RSD	.6522474	.5781318	.5791374	.2602123	.7254656
#1	6018.036	98215.65	8076.690	4624.893	6539.517
#2	6094.105	97419.31	7992.278	4610.677	6628.392
#3	6037.860	97125.18	8000.823	4601.035	6553.963

Reviewed By:jaswal
On:10/17/2025 1:18:42 PM
Inst Id :P4
LB :LB137561

Sample Name: Q3345-05 Acquired: 10/15/2025 18:50:29 Type: Unk
Method: 6010-200.7 NEW(v285) 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	.0683566	-.016948	1.382204	.0065861	-.007937	121.0111
Stddev	.0004783	.002515	.005442	.0033314	.001213	.4480
%RSD	.6997493	14.83893	.3937289	50.58166	15.27807	.3702102
#1	.0678143	-.015693	1.378721	.0095668	-.009316	120.4950
#2	.0685373	-.019843	1.379417	.0072017	-.007457	121.2398
#3	.0687183	-.015307	1.388475	.0029899	-.007038	121.2987

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6858882	.0081211	.0076395	153.2102	.1949903	.0611227
Stddev	.0048655	.0001421	.0000588	.7012	.0003806	.0001198
%RSD	.7093728	1.749431	.7692083	.4577007	.1951634	.1959124
#1	.6822993	.0079710	.0076562	152.4055	.1945510	.0611456
#2	.6914260	.0082535	.0075742	153.6906	.1952182	.0612294
#3	.6839392	.0081389	.0076882	153.5344	.1952017	.0609932

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2445664	177.6432	1.920941	37.84492	.1304115	-.028609
Stddev	.0002294	.3130	.014052	.25802	.0006948	.000708
%RSD	.0937985	.1761902	.7314940	.6817773	.5327799	2.474747
#1	.2447826	177.7523	1.910081	37.54743	.1296092	-.027986
#2	.2443258	177.8871	1.936811	37.97966	.1308180	-.028462
#3	.2445908	177.2903	1.915932	38.00768	.1308072	-.029379

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.202376	.2548590	1.103606	10.33992	.1180802	.0098206
Stddev	.016424	.0012994	.003928	.07031	.0031904	.0002058
%RSD	1.365932	.5098630	.3559447	.6800029	2.701914	2.095395
#1	1.221116	.2538688	1.101439	10.31286	.1205828	.0098347
#2	1.190489	.2563304	1.101238	10.41975	.1191702	.0096081
#3	1.195523	.2543777	1.108140	10.28717	.1144876	.0100189

Reviewed By:jaswal
On:10/17/2025 1:18:42 PM
Inst Id :P4
LB :LB137561

Sample Name: Q3345-05 Acquired: 10/15/2025 18:50:29 Type: Unk
Method: 6010-200.7 NEW(v285) 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	.0301456	1.935396	F 15.64716	3.247263	F 18.53651	.1079267
Stddev	.0003349	.009638	.17501	.011642	.08351	.0020302
%RSD	1.111122	.4979953	1.118464	.3585319	.4505391	1.881099
#1	.0305286	1.928908	15.84372	3.240568	18.45966	.1055845
#2	.0300008	1.946471	15.58948	3.260707	18.62539	.1091840
#3	.0299073	1.930810	15.50826	3.240516	18.52448	.1090115

Elem	Sr4077
Units	ppm
Avg	.3986828
Stddev	.0024707
%RSD	.6197139
#1	.3962097
#2	.4011510
#3	.3986878

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6143.922	99750.66	8238.485	4760.481	6366.082
Stddev	13.744	465.71	95.358	15.410	18.492
%RSD	.2237064	.4668697	1.157474	.3237080	.2904736
#1	6151.790	100271.6	8348.095	4775.732	6373.338
#2	6151.923	99374.5	8174.597	4744.916	6379.845
#3	6128.051	99605.9	8192.764	4760.794	6345.063

Reviewed By:jaswal
On:10/17/2025 1:18:42 PM
Inst Id :P4
LB :LB137561

Sample Name: Q3340-01 Acquired: 10/15/2025 18:54:31 Type: Unk
Method: 6010-200.7 NEW(v285) 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	.0943668	.0007954	1.876196	-.006528	.0410095	219.2498
Stddev	.0049153	.0057385	.002667	.001463	.0011835	.4870
%RSD	5.208755	721.4670	.1421396	22.41241	2.885983	.2221348
#1	.0888607	.0072297	1.874470	-.008212	.0413794	218.6926
#2	.0959267	-.001051	1.874851	-.005797	.0396852	219.5944
#3	.0983128	-.003793	1.879268	-.005573	.0419638	219.4625

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.018914	.0110242	.0401784	F 2386.336	.5197185	.1743232
Stddev	.012326	.0000411	.0000370	20.793	.0041049	.0002373
%RSD	.6105393	.3732150	.0920759	.8713402	.7898289	.1361327
#1	2.015027	.0110089	.0401529	2408.093	.5202524	.1740980
#2	2.032716	.0110708	.0401615	2384.251	.5235304	.1743005
#3	2.009000	.0109929	.0402209	2366.663	.5153728	.1745710

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	10.37464	204.0413	3.796810	96.05877	1.428502	-.034254
Stddev	.01742	2.2053	.031708	.17476	.000292	.000526
%RSD	.1678975	1.080801	.8351146	.1819309	.0204571	1.535301
#1	10.35978	203.3597	3.779382	96.07133	1.428633	-.034726
#2	10.37033	206.5069	3.833409	96.22691	1.428706	-.033687
#3	10.39381	202.2572	3.777639	95.87807	1.428167	-.034350

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	20.83188	.2556091	10.46934	32.46570	.5161251	.0370668
Stddev	.28752	.0030905	.06006	.38215	.0092781	.0004202
%RSD	1.380181	1.209077	.5736528	1.177089	1.797647	1.133647
#1	20.72672	.2569178	10.49832	32.35751	.5081041	.0371540
#2	21.15717	.2578300	10.50940	32.89028	.5262863	.0374365
#3	20.61174	.2520796	10.40028	32.14931	.5139849	.0366098

Reviewed By:jaswal
On:10/17/2025 1:18:42 PM
Inst Id :P4
LB :LB137561

Sample Name: Q3340-01 Acquired: 10/15/2025 18:54:31 Type: Unk
Method: 6010-200.7 NEW(v285) 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	.2551510	8.563846	3.826193	F 12.28964	F 98.67981	-.219222
Stddev	.0009685	.039073	.007821	.08842	.88898	.004533
%RSD	.3795728	.4562600	.2043952	.7194296	.9008698	2.067765
#1	.2542884	8.542573	3.818333	12.28757	98.96370	-.224446
#2	.2561987	8.608940	3.833974	12.37907	99.39217	-.216895
#3	.2549658	8.540025	3.826272	12.20228	97.68356	-.216326

Elem	Sr4077
Units	ppm
Avg	F 13.02439
Stddev	.20256
%RSD	1.555250
#1	12.94532
#2	13.25456
#3	12.87328

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5502.540	87337.35	8094.595	4200.729	4891.968
Stddev	6.874	606.59	8.239	33.895	5.630
%RSD	.1249229	.6945320	.1017812	.8068889	.1150912
#1	5510.262	87249.80	8088.706	4178.871	4897.450
#2	5497.088	86779.29	8091.069	4183.540	4886.201
#3	5500.271	87982.95	8104.010	4239.775	4892.253

Reviewed By:jaswal
On:10/17/2025 1:18:42 PM
Inst Id :P4
LB :LB137561

Sample Name: CCV05 Acquired: 10/15/2025 18:58:48 Type: Unk
Method: 6010-200.7 NEW(v285) 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	**4.941323**	**5.220653**	**4.935818**	**4.955646**	**4.973880**	**9.894564**	**9.692244**
Stddev	.011334	.244238	.004084	.026356	.005116	.142548	.068258
%RSD	.2293791	4.678294	.0827443	.5318385	.1028582	1.440665	.7042508
#1	4.953950	5.462892	4.934644	4.985918	4.977815	9.883028	9.699137
#2	4.932027	5.224602	4.940360	4.937803	4.968097	9.758135	9.620801
#3	4.937993	4.974465	4.932449	4.943216	4.975729	10.04253	9.756793

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2531007**	**2.482020**	**24.78601**	**1.022018**	**2.474732**	**1.254223**	**4.940163**
Stddev	.0031186	.002836	.27570	.003108	.001681	.000445	.050676
%RSD	1.232153	.1142662	1.112314	.3041240	.0679284	.0354968	1.025800
#1	.2537617	2.480508	24.79207	1.019148	2.472820	1.253798	4.913865
#2	.2497047	2.485292	24.50733	1.025319	2.475980	1.254184	4.998583
#3	.2558359	2.480261	25.05863	1.021585	2.475395	1.254686	4.908042

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.456482**	**25.01357**	**2.479970**	**1.260482**	**25.29797**	**2.492637**	**2.505834**
Stddev	.025969	.29750	.001874	.001090	.21630	.021121	.010861
%RSD	1.057163	1.189371	.0755723	.0865061	.8549933	.8473427	.4334275
#1	2.462708	25.03219	2.479411	1.259342	25.14758	2.502676	2.496104
#2	2.427967	24.70720	2.482060	1.261515	25.54586	2.468369	2.517551
#3	2.478773	25.30133	2.478439	1.260589	25.20048	2.506866	2.503847

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**24.19008**	**5.021137**	**5.048131**	**4.916815**	**4.924733**	**5.221916**	**5.061928**
Stddev	.19263	.063420	.009345	.007119	.047215	.039542	.016502
%RSD	.7963030	1.263054	.1851188	.1447946	.9587414	.7572338	.3259929
#1	24.01752	5.036919	5.058520	4.925010	4.930588	5.177912	5.080962
#2	24.39790	4.951317	5.045460	4.912161	4.874863	5.254469	5.053168
#3	24.15483	5.075176	5.040412	4.913273	4.968748	5.233368	5.051653

Reviewed By:jaswal
On:10/17/2025 1:18:42 PM
Inst Id :P4
LB :LB137561

Sample Name: CCV05 Acquired: 10/15/2025 18:58:48 Type: Unk
Method: 6010-200.7 NEW(v285) 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	**4.786779**	**4.659921**	**4.874748**
Stddev	.035339	.043680	.058258
%RSD	.7382713	.9373534	1.195097
#1	4.827565	4.656820	4.883607
#2	4.767508	4.617875	4.812568
#3	4.765264	4.705069	4.928069

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5748.501**	**93699.18**	**7258.537**	**4471.840**	**6699.184**
Stddev	8.345	258.51	88.337	26.503	13.925
%RSD	.1451641	.2758949	1.217008	.5926594	.2078660
#1	5756.642	93841.81	7229.587	4480.687	6714.278
#2	5739.966	93400.77	7357.716	4442.046	6686.837
#3	5748.895	93854.95	7188.307	4492.788	6696.438

Reviewed By:jaswal
On:10/17/2025 1:18:42 PM
Inst Id :P4
LB :LB137561

Sample Name: CCB05 Acquired: 10/15/2025 19:02:51 Type: Unk
Method: 6010-200.7 NEW(v285) 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	**.0028392**	**-.001498**	**.0006703**	**.0001526**	**-.002096**	**.0014475**
Stddev	.0030143	.001992	.0012593	.0013171	.001716	.0062371
%RSD	106.1677	132.9307	187.8684	863.1296	81.89236	430.8863
#1	.0061233	-.003798	.0020294	-.001234	-.000687	.0086192
#2	.0021953	-.000369	-.000457	.001386	-.004008	-.001567
#3	.0001988	-.000328	.000438	.000306	-.001594	-.002710

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0004750**	**-.000023**	**.0000219**	**.0143765**	**.0001740**	**-.000044**
Stddev	.0008237	.000058	.0000290	.0087834	.0001872	.000069
%RSD	173.4382	249.7726	132.5728	61.09531	107.5678	156.4939
#1	.0014256	-.000002	.0000495	.0244550	.0002509	-.000124
#2	-.000027	.000021	.0000246	.0103197	.0003105	-.000015
#3	.000026	-.000089	-.000008	.0083548	-.000039	.000005

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0001366**	**-.008985**	**.0000270**	**-.017071**	**-.000057**	**.0000674**
Stddev	.0002372	.006448	.0002662	.001321	.000118	.0002586
%RSD	173.6229	71.76229	987.8370	7.739560	207.8480	383.9174
#1	.0003927	-.004448	.0003196	-.015547	-.000186	-.000011
#2	-.000076	-.006141	-.000038	-.017766	.000046	-.000143
#3	.000093	-.016365	-.000201	-.017900	-.000031	.000356

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1098471**	**-.001561**	**.0001291**	**.1288190**	**-.003905**	**.0005098**
Stddev	.0046790	.004338	.0000338	.0446752	.000471	.0001995
%RSD	4.259509	277.9391	26.14248	34.68060	12.05814	39.13229
#1	.1044450	.002650	.0001029	.0980656	-.003548	.0005827
#2	.1126207	-.001316	.0001172	.1083274	-.003727	.0002841
#3	.1124757	-.006016	.0001672	.1800642	-.004438	.0006626

Reviewed By:jaswal
On:10/17/2025 1:18:42 PM
Inst Id :P4
LB :LB137561

Sample Name: CCB05 Acquired: 10/15/2025 19:02:51 Type: Unk
Method: 6010-200.7 NEW(v285) 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	-.000819	.0027940	.0011892	-.001419	F .0116028	.0016666
Stddev	.000203	.0002535	.0084243	.000810	.0025639	.0006761
%RSD	24.78625	9.073742	708.4050	57.08388	22.09722	40.56979
#1	-.000907	.0025597	.0108919	-.000584	.0114992	.0018227
#2	-.000963	.0027591	-.004264	-.002201	.0090923	.0009260
#3	-.000587	.0030631	-.003060	-.001471	.0142170	.0022510

Elem	Sr4077
Units	ppm
Avg	-.000000
Stddev	.000143
%RSD	68295.39
#1	.000104
#2	-.000164
#3	.000059

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5798.831	95158.65	7414.656	4494.966	7586.400
Stddev	13.822	433.73	53.182	19.918	10.852
%RSD	.2383605	.4557957	.7172530	.4431215	.1430423
#1	5798.484	94796.16	7370.191	4483.897	7581.942
#2	5785.185	95040.60	7400.209	4483.040	7578.487
#3	5812.823	95639.18	7473.569	4517.960	7598.770

Reviewed By:jaswal
On:10/17/2025 1:18:42 PM
Inst Id :P4
LB :LB137561

Sample Name: Q3340-02 Acquired: 10/15/2025 19:07:11 Type: Unk
Method: 6010-200.7 NEW(v285) 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	.0320367	.0068043	.0800843	-.011903	.0063019	150.5196
Stddev	.0023501	.0024413	.0033342	.001929	.0025177	.6378
%RSD	7.335546	35.87921	4.163311	16.20693	39.95059	.4237442
#1	.0293244	.0050045	.0799202	-.012461	.0086456	149.7943
#2	.0333182	.0095832	.0834974	-.009757	.0066196	150.7716
#3	.0334675	.0058253	.0768352	-.013492	.0036405	150.9929

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8845279	.0068811	.0036753	1908.396	.1814767	.0576708
Stddev	.0055634	.0000366	.0000721	17.189	.0005240	.0002628
%RSD	.6289649	.5324532	1.960802	.9006992	.2887557	.4556252
#1	.8803082	.0068390	.0036978	1898.911	.1812491	.0577847
#2	.8824430	.0068988	.0035946	1928.238	.1820761	.0578574
#3	.8908326	.0069057	.0037334	1898.040	.1811050	.0573703

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2063448	104.4481	2.980594	87.52272	.1190560	-.019993
Stddev	.0006074	.4759	.021645	.42311	.0004952	.000718
%RSD	.2943490	.4556494	.7262071	.4834247	.4159204	3.592234
#1	.2069769	104.2066	2.966674	87.03760	.1195833	-.019668
#2	.2057656	104.1414	2.969576	87.81542	.1189839	-.019494
#3	.2062919	104.9964	3.005532	87.71514	.1186009	-.020816

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	11.60391	.1820743	.4444465	18.11859	.3595153	.0077345
Stddev	.05161	.0016411	.0032395	.06782	.0019949	.0003242
%RSD	.4447579	.9013369	.7288807	.3742957	.5548949	4.191029
#1	11.57437	.1818913	.4407191	18.09530	.3610531	.0076508
#2	11.57385	.1837992	.4460380	18.06550	.3572611	.0080924
#3	11.66350	.1805323	.4465824	18.19499	.3602317	.0074605

Reviewed By:jaswal
On:10/17/2025 1:18:42 PM
Inst Id :P4
LB :LB137561

Sample Name: Q3340-02 Acquired: 10/15/2025 19:07:11 Type: Unk
Method: 6010-200.7 NEW(v285) 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	.0305146	6.143552	2.753209	7.054410	F 48.12447	-.172082
Stddev	.0018955	.024664	.012719	.053795	.43118	.003267
%RSD	6.211728	.4014585	.4619872	.7625674	.8959596	1.898291
#1	.0290487	6.125394	2.739359	7.066733	48.19367	-.173380
#2	.0326551	6.133631	2.755903	6.995524	47.66288	-.174499
#3	.0298400	6.171632	2.764366	7.100975	48.51686	-.168366

Elem	Sr4077
Units	ppm
Avg	F 10.98680
Stddev	.09870
%RSD	.8983880
#1	10.87583
#2	11.01979
#3	11.06479

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5493.561	88668.14	7809.708	4262.315	5135.443
Stddev	2.764	283.76	45.421	39.395	5.991
%RSD	.0503214	.3200217	.5815917	.9242679	.1166682
#1	5494.461	88987.56	7862.136	4304.797	5142.360
#2	5495.764	88571.64	7784.697	4255.158	5132.067
#3	5490.459	88445.22	7782.289	4226.988	5131.901

Reviewed By:jaswal
On:10/17/2025 1:18:42 PM
Inst Id :P4
LB :LB137561

Sample Name: Q3340-03 Acquired: 10/15/2025 19:11:31 Type: Unk
Method: 6010-200.7 NEW(v285) 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	.0756516	-.001775	.1949308	-.011246	.0128680	174.8028
Stddev	.0012997	.004757	.0009221	.002750	.0017365	.8065
%RSD	1.717942	267.9254	.4730384	24.45432	13.49490	.4613922
#1	.0766044	.003277	.1946629	-.008759	.0133711	175.7281
#2	.0741711	-.006167	.1941723	-.014199	.0109355	174.4310
#3	.0761793	-.002437	.1959572	-.010779	.0142974	174.2492

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.357713	.0081323	.0102052	1302.471	.2087261	.1371721
Stddev	.005823	.0000385	.0003138	13.971	.0000391	.0001631
%RSD	.2469755	.4731568	3.074577	1.072638	.0187177	.1189191
#1	2.355494	.0081492	.0105304	1318.035	.2086958	.1370307
#2	2.364319	.0080883	.0099043	1291.015	.2087702	.1373506
#3	2.353326	.0081595	.0101809	1298.363	.2087124	.1371350

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6066364	296.5820	2.814021	96.88765	.2033940	-.055913
Stddev	.0020582	1.8503	.003894	.54632	.0008646	.000819
%RSD	.3392865	.6238619	.1383891	.5638663	.4250724	1.464537
#1	.6043839	295.3727	2.817860	97.51527	.2027531	-.056818
#2	.6084191	298.7120	2.814130	96.62888	.2043774	-.055700
#3	.6071063	295.6613	2.810073	96.51879	.2030517	-.055222

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	8.354205	.5348785	1.568380	74.44042	.3608931	.0208929
Stddev	.075114	.0054929	.002530	.61240	.0090116	.0005445
%RSD	.8991210	1.026953	.1612903	.8226675	2.497039	2.606337
#1	8.270468	.5406315	1.569232	74.03996	.3599833	.0203289
#2	8.415649	.5343150	1.565534	75.14538	.3703251	.0214156
#3	8.376500	.5296890	1.570373	74.13592	.3523708	.0209341

Reviewed By:jaswal
On:10/17/2025 1:18:42 PM
Inst Id :P4
LB :LB137561

Sample Name: Q3340-03 Acquired: 10/15/2025 19:11:31 Type: Unk
Method: 6010-200.7 NEW(v285) 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	.1174869	F 18.11571	3.874800	F 10.57386	F 41.79675	.0244643
Stddev	.0011433	.04362	.038605	.08236	.26702	.0031525
%RSD	.9730952	.2407823	.9962968	.7788991	.6388525	12.88621
#1	.1164772	18.16495	3.911052	10.51146	41.59078	.0208908
#2	.1172554	18.10030	3.879137	10.54290	41.70104	.0268520
#3	.1187282	18.08190	3.834209	10.66721	42.09844	.0256501

Elem	Sr4077
Units	ppm
Avg	F 10.71362
Stddev	.05026
%RSD	.4691077
#1	10.76689
#2	10.70693
#3	10.66705

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5701.954	91981.47	8098.971	4401.144	5377.692
Stddev	15.827	335.13	55.047	25.471	7.897
%RSD	.2775735	.3643400	.6796765	.5787332	.1468435
#1	5711.814	91852.10	8037.997	4380.069	5384.338
#2	5683.698	91730.32	8145.007	4393.915	5368.962
#3	5710.350	92362.00	8113.908	4429.448	5379.777

Reviewed By:jaswal
On:10/17/2025 1:18:42 PM
Inst Id :P4
LB :LB137561

Sample Name: Q3341-01 Acquired: 10/15/2025 19:15:50 Type: Unk
Method: 6010-200.7 NEW(v285) 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	.0958977	-.020593	.1620685	.0115629	-.018214	243.5002
Stddev	.0030090	.005018	.0012758	.0005741	.000509	.0900
%RSD	3.137708	24.36941	.7871994	4.964741	2.793514	.0369512
#1	.0933778	-.015568	.1632327	.0113404	-.018375	243.5935
#2	.0950859	-.025605	.1607046	.0111334	-.017644	243.4139
#3	.0992293	-.020605	.1622682	.0122149	-.018622	243.4933

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5642208	.0121110	.0088672	16.00628	.3616139	.1345512
Stddev	.0014220	.0001387	.0001980	.00272	.0003580	.0009987
%RSD	.2520285	1.144890	2.232746	.0169935	.0990050	.7422555
#1	.5645175	.0121730	.0087346	16.00324	.3612465	.1338748
#2	.5654709	.0122078	.0087723	16.00712	.3616336	.1340806
#3	.5626738	.0119521	.0090948	16.00848	.3619617	.1356983

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2353686	341.8514	3.833874	51.26571	.2532304	-.058899
Stddev	.0033769	.9568	.011077	.09739	.0018719	.000721
%RSD	1.434714	.2798931	.2889209	.1899646	.7391995	1.223503
#1	.2328762	340.9679	3.839515	51.27579	.2522716	-.059635
#2	.2340178	341.7186	3.840994	51.16367	.2520322	-.058869
#3	.2392118	342.8677	3.821112	51.35766	.2553874	-.058194

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	15.41950	.5861683	.5749179	23.80361	.1442951	.0072676
Stddev	.03614	.0038781	.0005808	.04159	.0080277	.0003309
%RSD	.2343727	.6616010	.1010196	.1747113	5.563422	4.553502
#1	15.37778	.5881250	.5755357	23.84998	.1390625	.0069133
#2	15.43957	.5886782	.5743831	23.79126	.1402849	.0073208
#3	15.44115	.5817016	.5748349	23.76960	.1535378	.0075687

Reviewed By:jaswal
On:10/17/2025 1:18:42 PM
Inst Id :P4
LB :LB137561

Sample Name: Q3341-01 Acquired: 10/15/2025 19:15:50 Type: Unk
Method: 6010-200.7 NEW(v285) 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	.0130832	F 13.45328	F 42.16160	7.263369	.2052544	.2292274
Stddev	.0007059	.02495	1.01560	.064946	.0018171	.0014788
%RSD	5.395376	.1854316	2.408834	.8941539	.8852722	.6451377
#1	.0132513	13.48155	43.20685	7.255382	.2032508	.2305112
#2	.0136899	13.44394	42.09943	7.202786	.2067954	.2295606
#3	.0123085	13.43435	41.17851	7.331939	.2057171	.2276103

Elem	Sr4077
Units	ppm
Avg	-.221891
Stddev	.001076
%RSD	.4848055
#1	-.220825
#2	-.221871
#3	-.222976

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6544.444	105944.1	8518.763	5110.524	6407.699
Stddev	33.117	69.5	30.102	16.095	36.636
%RSD	.5060354	.0655914	.3533631	.3149379	.5717570
#1	6569.024	105953.3	8493.112	5102.326	6434.291
#2	6557.524	106008.6	8511.274	5129.068	6422.897
#3	6506.785	105870.5	8551.903	5100.178	6365.910

Reviewed By:jaswal
On:10/17/2025 1:18:42 PM
Inst Id :P4
LB :LB137561

Sample Name: Q3341-02 Acquired: 10/15/2025 19:19:53 Type: Unk
Method: 6010-200.7 NEW(v285) 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	**.1188523**	**-.041836**	**.1774951**	**.0131475**	**-.025679**	**260.0598**
Stddev	.0030622	.002475	.0013686	.0024149	.001379	.4160
%RSD	2.576437	5.915553	.7710543	18.36781	5.370774	.1599788
#1	.1162353	-.043407	.1782950	.0132929	-.025647	260.5384
#2	.1222200	-.043117	.1782754	.0154865	-.027073	259.7846
#3	.1181016	-.038983	.1759148	.0106632	-.024315	259.8565

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5939399**	**.0149797**	**.0083782**	**15.38908**	**.3842617**	**.1517315**
Stddev	.0044818	.0000264	.0003256	.04633	.0017686	.0007217
%RSD	.7545878	.1762584	3.886782	.3010674	.4602636	.4756243
#1	.5969562	.0150065	.0080310	15.40411	.3860211	.1525625
#2	.5960737	.0149538	.0084268	15.42602	.3842801	.1512626
#3	.5887900	.0149789	.0086768	15.33709	.3824840	.1513694

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2751340**	**449.7638**	**3.145677**	**55.08024**	**.2638515**	**-.075954**
Stddev	.0004312	3.0275	.023023	.06194	.0010275	.000419
%RSD	.1567319	.6731245	.7318938	.1124586	.3894387	.5517382
#1	.2748085	452.7922	3.160812	55.15159	.2645546	-.075707
#2	.2749703	449.7619	3.157037	55.04026	.2626723	-.075716
#3	.2756230	446.7373	3.119182	55.04887	.2643276	-.076438

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.923272**	**.7319211**	**.6607218**	**23.60141**	**.1542433**	**.0099843**
Stddev	.023517	.0008737	.0037687	.21251	.0126939	.0003756
%RSD	1.222783	.1193708	.5703865	.9004003	8.229797	3.762065
#1	1.912023	.7326466	.6637842	23.80789	.1687106	.0104172
#2	1.950301	.7321653	.6565131	23.61298	.1490493	.0097903
#3	1.907491	.7309512	.6618682	23.38335	.1449701	.0097453

Reviewed By:jaswal
On:10/17/2025 1:18:42 PM
Inst Id :P4
LB :LB137561

Sample Name: Q3341-02 Acquired: 10/15/2025 19:19:53 Type: Unk
Method: 6010-200.7 NEW(v285) 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	.0114850	F 12.00334	F 15.42529	7.532090	.1513433	.2282373
Stddev	.0008914	.04433	.06325	.014441	.0047826	.0010994
%RSD	7.761536	.3693446	.4100489	.1917217	3.160098	.4817048
#1	.0117996	12.03879	15.48689	7.543798	.1541379	.2292505
#2	.0104790	12.01759	15.36051	7.536519	.1458210	.2283930
#3	.0121765	11.95363	15.42847	7.515954	.1540711	.2270683

Elem	Sr4077
Units	ppm
Avg	-.222590
Stddev	.001536
%RSD	.6902527
#1	-.224243
#2	-.222321
#3	-.221206

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6416.803	101705.7	8236.928	4919.620	6418.634
Stddev	21.487	618.5	39.563	39.313	29.927
%RSD	.3348560	.6081723	.4803155	.7991067	.4662572
#1	6392.463	101085.8	8216.373	4875.829	6384.176
#2	6424.805	101708.2	8211.874	4931.159	6438.133
#3	6433.141	102322.9	8282.538	4951.873	6433.592

Reviewed By:jaswal
On:10/17/2025 1:18:42 PM
Inst Id :P4
LB :LB137561

Sample Name: Q3341-03 Acquired: 10/15/2025 19:23:56 Type: Unk
Method: 6010-200.7 NEW(v285) 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	**.1015598**	**-.023670**	**.1710432**	**.0069027**	**-.019395**	**191.1812**
Stddev	.0003691	.003535	.0009062	.0015124	.001489	.8838
%RSD	.3634556	14.93473	.5298321	21.91023	7.676361	.4622936
#1	.1011701	-.023105	.1712840	.0059458	-.018736	191.3045
#2	.1019041	-.027454	.1718048	.0086463	-.021100	191.9969
#3	.1016054	-.020452	.1700409	.0061159	-.018350	190.2422

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.6335470**	**.0134420**	**.0129796**	**8.268088**	**.2952260**	**.1792198**
Stddev	.0020191	.0001122	.0002338	.027677	.0004540	.0005747
%RSD	.3186938	.8345973	1.801373	.3347474	.1537629	.3206482
#1	.6321910	.0133133	.0132433	8.244503	.2951507	.1798808
#2	.6358674	.0135195	.0128980	8.298558	.2957128	.1788395
#3	.6325826	.0134931	.0127975	8.261203	.2948143	.1789389

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2348049**	**309.2574**	**6.761870**	**61.42893**	**.2664578**	**-.053754**
Stddev	.0018099	.8704	.009147	.30183	.0011644	.000419
%RSD	.7707920	.2814384	.1352658	.4913523	.4369795	.7788446
#1	.2368943	308.3132	6.766823	61.49796	.2678004	-.053758
#2	.2337968	309.4313	6.751316	61.69026	.2657239	-.053333
#3	.2337235	310.0277	6.767472	61.09856	.2658492	-.054171

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.956501**	**.5269528**	**.5492504**	**22.21239**	**.1133003**	**.0059549**
Stddev	.007713	.0032903	.0007927	.12817	.0080301	.0003816
%RSD	.3942323	.6243912	.1443317	.5770173	7.087404	6.409044
#1	1.952162	.5254810	.5485649	22.12903	.1040362	.0055142
#2	1.951934	.5307220	.5490677	22.35997	.1175945	.0061770
#3	1.965406	.5246553	.5501185	22.14816	.1182702	.0061734

Reviewed By:jaswal
On:10/17/2025 1:18:42 PM
Inst Id :P4
LB :LB137561

Sample Name: Q3341-03 Acquired: 10/15/2025 19:23:56 Type: Unk
Method: 6010-200.7 NEW(v285) 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	.0099339	9.397784	F 21.70987	9.256275	.2101738	.2221987
Stddev	.0007500	.018139	.31492	.040036	.0032697	.0010076
%RSD	7.549851	.1930126	1.450571	.4325283	1.555715	.4534626
#1	.0090925	9.379983	21.80295	9.301196	.2122806	.2223280
#2	.0105320	9.416243	21.96775	9.243274	.2118337	.2231355
#3	.0101773	9.397126	21.35890	9.224356	.2064071	.2211328

Elem	Sr4077
Units	ppm
Avg	-.214352
Stddev	.000349
%RSD	.1629186
#1	-.213962
#2	-.214461
#3	-.214634

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	7501.727	120815.2	9647.944	5777.418	6379.097
Stddev	14.725	198.5	21.870	24.510	21.332
%RSD	.1962902	.1642826	.2266807	.4242388	.3344017
#1	7485.329	120944.9	9626.560	5805.632	6354.576
#2	7506.034	120586.7	9647.002	5765.238	6389.333
#3	7513.819	120914.1	9670.270	5761.384	6393.381

Reviewed By:jaswal
On:10/17/2025 1:18:42 PM
Inst Id :P4
LB :LB137561

Sample Name: Q3342-01 Acquired: 10/15/2025 19:27:58 Type: Unk
Method: 6010-200.7 NEW(v285) 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	**.0215103**	**-.040613**	**.2214481**	**-.010746**	**-.020984**	**48.57640**
Stddev	.0020752	.003664	.0036781	.001348	.001769	.08529
%RSD	9.647484	9.020573	1.660929	12.54845	8.430427	.1755699
#1	.0192607	-.042992	.2216847	-.011784	-.019702	48.51102
#2	.0233500	-.036394	.2176573	-.009222	-.023002	48.54531
#3	.0219201	-.042453	.2250021	-.011232	-.020247	48.67287

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4023822**	**.0035945**	**.0187921**	**151.2345**	**.0009670**	**.0871045**
Stddev	.0018764	.0001026	.0003378	.1427	.0001652	.0011295
%RSD	.4663280	2.855629	1.797445	.0943887	17.07908	1.296707
#1	.4043691	.0037085	.0188684	151.2068	.0007900	.0875514
#2	.4006403	.0035095	.0184227	151.1077	.0009942	.0858199
#3	.4021374	.0035654	.0190852	151.3892	.0011170	.0879421

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0891976**	**234.0422**	**1.995290**	**26.52668**	**.0336766**	**-.043874**
Stddev	.0008954	.4583	.003398	.04162	.0004081	.000435
%RSD	1.003785	.1958019	.1702772	.1569122	1.211686	.9918783
#1	.0895201	234.2219	1.999164	26.48253	.0340319	-.043503
#2	.0881856	233.5213	1.993891	26.53229	.0332309	-.044353
#3	.0898870	234.3833	1.992816	26.56521	.0337669	-.043766

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.289357**	**.0949685**	**.2968388**	**28.62793**	**.0754938**	**.0107896**
Stddev	.012180	.0004063	.0009121	.12618	.0034824	.0002015
%RSD	.5320236	.4277870	.3072593	.4407606	4.612797	1.867565
#1	2.294618	.0945575	.2978308	28.72736	.0748311	.0108612
#2	2.275431	.0953699	.2960364	28.48598	.0723904	.0105621
#3	2.298023	.0949781	.2966493	28.67043	.0792599	.0109456

Reviewed By:jaswal
On:10/17/2025 1:18:42 PM
Inst Id :P4
LB :LB137561

Sample Name: Q3342-01 Acquired: 10/15/2025 19:27:58 Type: Unk
Method: 6010-200.7 NEW(v285) 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	.0186538	3.386116	F 13.33543	6.784079	2.546889	.0641722
Stddev	.0010031	.001966	.07747	.077021	.041450	.0009336
%RSD	5.377409	.0580647	.5809207	1.135319	1.627470	1.454905
#1	.0192357	3.388318	13.28518	6.844809	2.565268	.0650618
#2	.0174956	3.385492	13.29646	6.697445	2.499428	.0632000
#3	.0192302	3.384538	13.42465	6.809982	2.575972	.0642547

Elem	Sr4077
Units	ppm
Avg	.3929057
Stddev	.0026551
%RSD	.6757518
#1	.3955397
#2	.3902300
#3	.3929474

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	9179.360	150783.0	12398.85	7060.454	6242.749
Stddev	45.437	248.9	56.99	15.799	52.061
%RSD	.4949952	.1650836	.4596793	.2237673	.8339513
#1	9162.700	150629.6	12363.45	7043.166	6226.803
#2	9230.776	150649.1	12368.50	7064.053	6300.919
#3	9144.604	151070.2	12464.59	7074.143	6200.526

Reviewed By:jaswal
On:10/17/2025 1:18:42 PM
Inst Id :P4
LB :LB137561

Sample Name: Q3343-01 Acquired: 10/15/2025 19:32:01 Type: Unk
Method: 6010-200.7 NEW(v285) 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	.0665406	-.023021	1.477054	.0074402	-.012144	142.6662
Stddev	.0011647	.001841	.005807	.0024431	.001315	.2677
%RSD	1.750396	7.998294	.3931424	32.83690	10.83203	.1876141
#1	.0674328	-.021280	1.473992	.0088989	-.012859	142.9752
#2	.0652230	-.022835	1.483751	.0046197	-.010626	142.5172
#3	.0669661	-.024949	1.473419	.0088019	-.012947	142.5061

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5012405	.0065630	.0056099	35.87563	.1649673	.0834550
Stddev	.0027920	.0001366	.0001502	.11482	.0023202	.0004192
%RSD	.5570109	2.081528	2.678353	.3200568	1.406490	.5022900
#1	.5039965	.0066487	.0054919	36.00294	.1641021	.0834959
#2	.5013113	.0066349	.0057791	35.84404	.1632041	.0838522
#3	.4984139	.0064055	.0055588	35.77990	.1675959	.0830168

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3107450	212.9430	2.173339	18.69128	.1486403	-.036196
Stddev	.0014422	.7476	.011776	.04939	.0006895	.000263
%RSD	.4640985	.3510669	.5418410	.2642495	.4638507	.7263998
#1	.3099805	212.1863	2.186063	18.74004	.1479982	-.036053
#2	.3124085	212.9617	2.171132	18.64128	.1493690	-.036036
#3	.3098461	213.6811	2.162823	18.69252	.1485538	-.036500

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	21.51094	.2994361	1.025502	12.42800	.0975190	.0058698
Stddev	.17215	.0032082	.009592	.04758	.0086703	.0000166
%RSD	.8002935	1.071426	.9353774	.3828318	8.890890	.2820512
#1	21.32919	.2989773	1.021007	12.37307	.0885247	.0058558
#2	21.53210	.2964819	1.018983	12.45606	.0982080	.0058654
#3	21.67154	.3028490	1.036517	12.45488	.1058242	.0058881

Reviewed By:jaswal
On:10/17/2025 1:18:42 PM
Inst Id :P4
LB :LB137561

Sample Name: Q3343-01 Acquired: 10/15/2025 19:32:01 Type: Unk
Method: 6010-200.7 NEW(v285) 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	.2397638	2.568947	F 12.76948	4.739966	1.623630	.1437198
Stddev	.0006045	.014095	.16957	.039771	.018273	.0010703
%RSD	.2521087	.5486753	1.327917	.8390526	1.125432	.7446964
#1	.2398571	2.583243	12.59792	4.695094	1.604031	.1445481
#2	.2403161	2.568537	12.77352	4.770865	1.640198	.1425113
#3	.2391181	2.555062	12.93699	4.753937	1.626661	.1440998

Elem	Sr4077
Units	ppm
Avg	.0964948
Stddev	.0020822
%RSD	2.157790
#1	.0984818
#2	.0966736
#3	.0943290

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6331.104	100819.9	8263.730	4820.455	6618.302
Stddev	18.119	678.4	52.508	49.757	26.914
%RSD	.2861846	.6728448	.6353980	1.032209	.4066550
#1	6333.817	101221.6	8204.976	4847.406	6622.433
#2	6311.783	101201.4	8306.068	4850.922	6589.561
#3	6347.714	100036.7	8280.146	4763.036	6642.911

Reviewed By:jaswal
On:10/17/2025 1:18:42 PM
Inst Id :P4
LB :LB137561

Sample Name: Q3337-02 Acquired: 10/15/2025 19:36:03 Type: Unk
Method: 6010-200.7 NEW(v285) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.002128	-.001974	.0003707	-.000299	.0034823	.0288996	.0823630
Stddev	.000942	.003975	.0002915	.000279	.0005037	.0053608	.0006473
%RSD	44.28382	201.3965	78.62088	93.14153	14.46427	18.54981	.7858920
#1	-.001257	-.005998	.0005795	-.000619	.0036016	.0309345	.0830912
#2	-.003128	.001949	.0004949	-.000173	.0029297	.0329451	.0818532
#3	-.001998	-.001872	.0000377	-.000106	.0039156	.0228193	.0821445

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000190	-.000023	178.4675	.0034588	.0001679	.0017048	.0100916
Stddev	.000021	.000021	1.0558	.0002075	.0002339	.0004387	.0042705
%RSD	10.96700	91.14671	.5916184	5.997916	139.3143	25.73467	42.31716
#1	-.000203	-.000023	179.5378	.0033498	.0002730	.0020599	.0054451
#2	-.000166	-.000044	178.4379	.0036981	-.000100	.0012143	.0109849
#3	-.000202	-.000002	177.4267	.0033286	.000331	.0018401	.0138448

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0290271	5.498994	.0013313	-.000435	314.9260	.0001988	.0264774
Stddev	.0005021	.017424	.0000765	.000464	7.1766	.0041146	.0004410
%RSD	1.729726	.3168599	5.749037	106.6486	2.278806	2069.513	1.665538
#1	.0286477	5.491802	.0013074	-.000917	311.8703	.0001341	.0260601
#2	.0295965	5.486318	.0012696	-.000394	323.1246	-.003883	.0264333
#3	.0288371	5.518864	.0014170	.000007	309.7829	.004345	.0269387

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.998462	.0388042	.0028333	-.019394	-.006012	6.256587	.0437590
Stddev	.082818	.0007807	.0002556	.000641	.001272	.063324	.0022389
%RSD	1.380653	2.011761	9.021496	3.305235	21.15635	1.012122	5.116318
#1	6.076613	.0388252	.0025399	-.019539	-.004696	6.276999	.0426816
#2	6.007116	.0395741	.0030073	-.019951	-.007234	6.307187	.0422625
#3	5.911656	.0380132	.0029529	-.018693	-.006105	6.185574	.0463328

Reviewed By:jaswal
On:10/17/2025 1:18:42 PM
Inst Id :P4
LB :LB137561

Sample Name: Q3337-02 Acquired: 10/15/2025 19:36:03 Type: Unk
Method: 6010-200.7 NEW(v285) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	8.906111	-.027631	.9706126
Stddev	.043808	.000687	.0085649
%RSD	.4918916	2.484885	.8824249
#1	8.940428	-.027440	.9792717
#2	8.921138	-.027060	.9704211
#3	8.856766	-.028393	.9621451

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5358.041	88199.38	7299.085	4199.527	6247.774
Stddev	28.090	243.19	9.234	23.954	36.440
%RSD	.5242526	.2757261	.1265155	.5703877	.5832524
#1	5329.636	88323.19	7309.448	4227.173	6210.736
#2	5358.684	87919.20	7296.075	4186.444	6249.001
#3	5385.804	88355.75	7291.730	4184.964	6283.585

Reviewed By:jaswal
On:10/17/2025 1:18:42 PM
Inst Id :P4
LB :LB137561

Sample Name: Q3337-04 Acquired: 10/15/2025 19:40:28 Type: Unk
Method: 6010-200.7 NEW(v285) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.002423	-.003813	.0011410	.0002156	.0027007	.0226421	.0685881
Stddev	.000533	.002776	.0013411	.0032078	.0006639	.0101851	.0008031
%RSD	21.99442	72.79811	117.5318	1487.923	24.58199	44.98297	1.170874
#1	-.002200	-.005295	.0012365	.0011073	.0019584	.0320663	.0679553
#2	-.003032	-.005533	-.000245	-.003344	.0029061	.0118371	.0683173
#3	-.002039	-.000611	.002432	.002883	.0032377	.0240228	.0694915

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000153	-.000106	173.7187	.0033309	-.000287	.0014873	.0057626
Stddev	.000035	.000084	.5685	.0002122	.000233	.0002278	.0033586
%RSD	22.93315	79.19820	.3272342	6.371855	81.36961	15.31615	58.28301
#1	-.000172	-.000083	173.0684	.0031536	-.000223	.0013698	.0029557
#2	-.000174	-.000037	173.9667	.0035660	-.000545	.0013422	.0048484
#3	-.000112	-.000200	174.1211	.0032731	-.000092	.0017498	.0094836

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0332519	6.674832	.0015992	-.000320	318.2781	-.000414	.0260258
Stddev	.0005636	.012006	.0002333	.000552	2.1580	.003852	.0001454
%RSD	1.694787	.1798763	14.58650	172.4319	.6780105	930.2802	.5584822
#1	.0326160	6.668494	.0013360	-.000904	317.5941	.004023	.0261711
#2	.0334500	6.667323	.0017804	.000192	320.6952	-.002899	.0258804
#3	.0336896	6.688679	.0016811	-.000247	316.5450	-.002367	.0260258

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.645646	.0416395	.0024189	-.020030	-.005018	6.509426	.0289358
Stddev	.042713	.0003190	.0002734	.000355	.001902	.040844	.0002008
%RSD	.5586543	.7661098	11.30148	1.770745	37.90633	.6274612	.6940239
#1	7.668009	.0420044	.0022455	-.020161	-.003065	6.553034	.0290829
#2	7.672533	.0414133	.0027340	-.020301	-.006865	6.503176	.0287071
#3	7.596394	.0415009	.0022771	-.019629	-.005124	6.472066	.0290176

Reviewed By:jaswal
On:10/17/2025 1:18:42 PM
Inst Id :P4
LB :LB137561

Sample Name: Q3337-04 Acquired: 10/15/2025 19:40:28 Type: Unk
Method: 6010-200.7 NEW(v285) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	**8.758763**	**-.025897**	**1.029543**
Stddev	.057935	.000895	.005166
%RSD	.6614526	3.457036	.5017502
#1	8.741219	-.026917	1.023595
#2	8.823443	-.025241	1.032129
#3	8.711628	-.025532	1.032904

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5476.230**	**91618.03**	**7554.171**	**4365.959**	**6382.732**
Stddev	20.581	314.55	76.351	24.107	24.582
%RSD	.3758246	.3433272	1.010719	.5521521	.3851267
#1	5499.667	91682.09	7628.850	4378.540	6409.330
#2	5467.918	91895.61	7557.413	4381.172	6378.016
#3	5461.105	91276.38	7476.250	4338.164	6360.850

Reviewed By:jaswal
On:10/17/2025 1:18:42 PM
Inst Id :P4
LB :LB137561

Sample Name: CCV06 Acquired: 10/15/2025 19:44:52 Type: Unk
Method: 6010-200.7 NEW(v285) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCV06 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.938146**	**5.008298**	**4.903322**	**4.974217**	**4.971346**	**10.33169**	**10.06961**
Stddev	.010743	.055356	.009010	.008275	.008380	.63064	.60888
%RSD	.2175461	1.105278	.1837621	.1663649	.1685611	6.103961	6.046694
#1	4.943010	5.006405	4.899470	4.983671	4.980576	10.09481	9.85534
#2	4.925832	4.953913	4.896878	4.968284	4.969247	11.04647	10.75666
#3	4.945596	5.064576	4.913618	4.970697	4.964215	9.85378	9.59683

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2637571**	**2.459900**	**25.83964**	**1.021265**	**2.449152**	**1.240958**	**4.883209**
Stddev	.0136232	.005318	1.48199	.005887	.004043	.001126	.071265
%RSD	5.165046	.2161866	5.735345	.5764124	.1650807	.0907440	1.459389
#1	.2613029	2.458298	25.32791	1.015402	2.449133	1.241707	4.803876
#2	.2784405	2.455567	27.50968	1.021217	2.445118	1.239663	4.941806
#3	.2515278	2.465835	24.68132	1.027175	2.453204	1.241505	4.903945

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.568371**	**26.26350**	**2.451761**	**1.244530**	**25.65008**	**2.595729**	**2.498024**
Stddev	.152567	1.49983	.002906	.001368	.34306	.150897	.004949
%RSD	5.940234	5.710698	.1185447	.1099506	1.337449	5.813296	.1981336
#1	2.515660	25.61623	2.452466	1.244144	25.29862	2.534821	2.503637
#2	2.740305	27.97827	2.448567	1.246050	25.98406	2.767560	2.496145
#3	2.449149	25.19599	2.454251	1.243396	25.66756	2.484804	2.494289

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**24.28079**	**5.199872**	**4.987095**	**4.877935**	**5.128978**	**5.134308**	**5.106740**
Stddev	.28019	.274230	.002195	.017196	.309630	.051613	.041124
%RSD	1.153967	5.273782	.0440068	.3525312	6.036871	1.005259	.8052813
#1	23.97105	5.147306	4.988700	4.884638	5.015632	5.077279	5.125803
#2	24.51662	5.496579	4.984594	4.858397	5.479309	5.147833	5.059544
#3	24.35470	4.955730	4.987991	4.890770	4.891993	5.177812	5.134872

Reviewed By:jaswal
On:10/17/2025 1:18:42 PM
Inst Id :P4
LB :LB137561

Sample Name: CCV06 Acquired: 10/15/2025 19:44:52 Type: Unk
Method: 6010-200.7 NEW(v285) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCV06 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	**4.806940**	**4.918555**	**5.118729**
Stddev	.033578	.297089	.277957
%RSD	.6985242	6.040164	5.430200
#1	4.820537	4.811864	5.034387
#2	4.768697	5.254256	5.429089
#3	4.831587	4.689546	4.892712

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5737.430**	**93604.91**	**6896.928**	**4482.898**	**6685.274**
Stddev	5.349	543.42	339.507	22.786	11.125
%RSD	.0932356	.5805500	4.922585	.5082956	.1664170
#1	5743.500	94100.46	6969.648	4489.676	6688.061
#2	5733.404	93690.51	6526.952	4501.526	6694.740
#3	5735.386	93023.77	7194.182	4457.491	6673.020

Reviewed By:jaswal
On:10/17/2025 1:18:42 PM
Inst Id :P4
LB :LB137561

Sample Name: CCB06 Acquired: 10/15/2025 19:48:55 Type: Unk
Method: 6010-200.7 NEW(v285) 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	**.0004927**	**-.000947**	**.0001432**	**-.003139**	**-.000937**	**-.007204**
Stddev	.0008835	.000308	.0002344	.001209	.000662	.009390
%RSD	179.3276	32.55617	163.7189	38.53076	70.70236	130.3529
#1	.0015099	-.000834	.0000185	-.002472	-.001645	-.004959
#2	-.000083	-.000710	-.000003	-.002409	-.000835	-.017513
#3	.000051	-.001295	.000414	-.004535	-.000332	.000861

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.001113**	**-.000014**	**.0000143**	**.0175346**	**.0000457**	**-.000126**
Stddev	.001100	.000040	.0000352	.0158791	.0001071	.000052
%RSD	98.77776	282.6707	246.0027	90.55857	234.3163	41.15762
#1	.000156	-.000006	.0000547	.0358681	-.000012	-.000130
#2	-.001732	-.000057	-.000009	.0081241	-.000020	-.000175
#3	-.001765	.000021	-.000002	.0086117	.000169	-.000072

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000051**	**-.004794**	**-.000421**	**-.009719**	**-.000233**	**-.000073**
Stddev	.000022	.004512	.000246	.021277	.000072	.000376
%RSD	43.95812	94.10188	58.38833	218.9263	30.76988	515.4482
#1	-.000025	-.009615	-.000692	.005981	-.000315	-.000507
#2	-.000067	-.000673	-.000359	-.033935	-.000182	.000148
#3	-.000061	-.004095	-.000212	-.001202	-.000202	.000140

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2226914**	**-.003648**	**-.000147**	**.3206446**	**-.004176**	**.0002885**
Stddev	.0055823	.003317	.000085	.0412113	.000581	.0003586
%RSD	2.506743	90.90869	58.06697	12.85264	13.91491	124.2969
#1	.2213485	.000018	-.000118	.2730754	-.003511	.0003585
#2	.2179030	-.004524	-.000244	.3433116	-.004584	.0006069
#3	.2288226	-.006439	-.000080	.3455469	-.004434	-.000100

Reviewed By:jaswal
On:10/17/2025 1:18:42 PM
Inst Id :P4
LB :LB137561

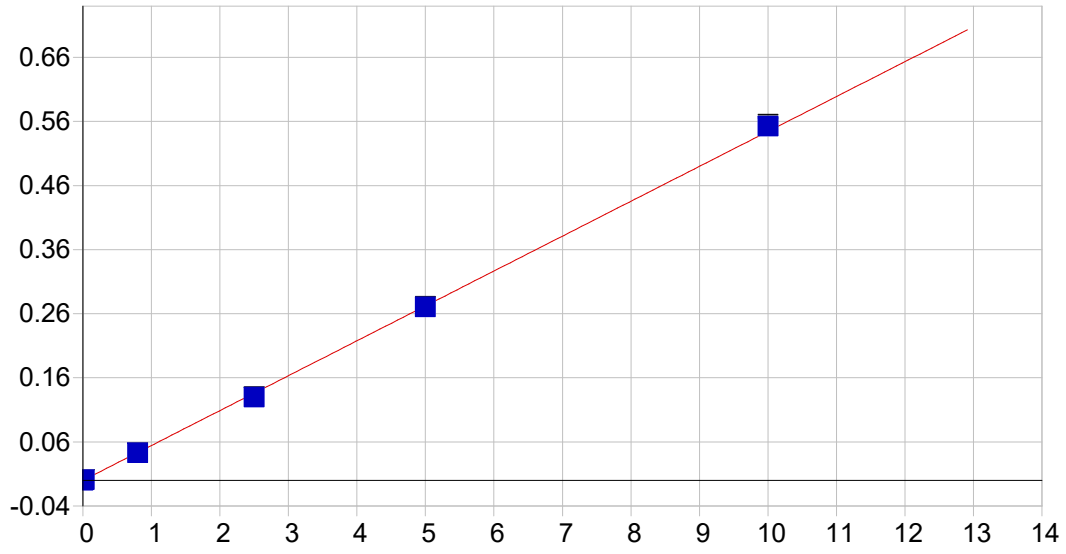
Sample Name: CCB06 Acquired: 10/15/2025 19:48:55 Type: Unk
Method: 6010-200.7 NEW(v285) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCB06 Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000692	.0009189	.0011016	-.001730	F .0124989	.0053819
Stddev	.000332	.0006465	.0193921	.001491	.0019866	.0007189
%RSD	47.97451	70.35923	1760.340	86.19015	15.89457	13.35871
#1	-.000346	.0002365	-.006800	-.000030	.0102681	.0053025
#2	-.001008	.0015223	-.013092	-.002347	.0131513	.0061373
#3	-.000722	.0009978	.023197	-.002814	.0140772	.0047059

Elem	Sr4077
Units	ppm
Avg	.0000034
Stddev	.0000735
%RSD	2168.006
#1	.0000369
#2	-.000081
#3	.000054

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5766.288	94999.91	7312.625	4490.124	7559.756
Stddev	5.481	236.06	14.994	5.542	18.034
%RSD	.0950468	.2484828	.2050375	.1234274	.2385534
#1	5771.540	95159.99	7315.428	4483.788	7570.665
#2	5760.604	95110.92	7326.020	4494.072	7538.940
#3	5766.718	94728.81	7296.428	4492.512	7569.662

Reviewed By:
On:
Inst Id :P4
LB :LB137573



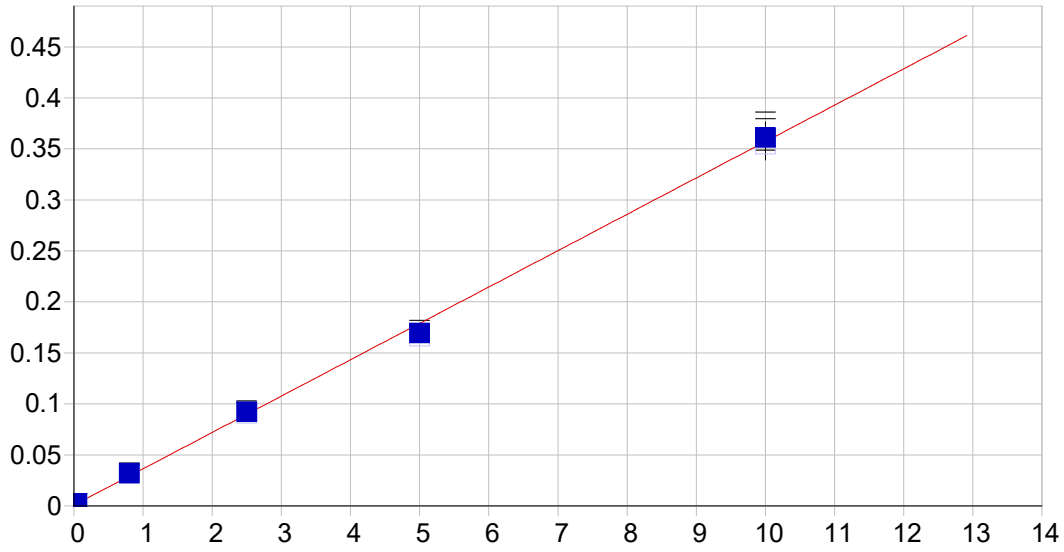
As 189.042 {479}

Date of Fit:	10/16/2025 12:15:58	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000024	Re-Slope:	1.000000
A1 (Gain):	0.054448	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999784	Status:	OK.
Std Error of Est:	0.000027		
Predicted MDL:	0.002160		
Predicted MQL:	0.007200		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	-.00002	.000	1
S1	.02000	.02005	.000	.251	.00106	.000	1
S3	2.5000	2.3861	-.114	-4.55	.12976	.000	1
S4	5.0000	4.9692	-.031	-.615	.27026	.001	1
S5	10.000	10.155	.155	1.55	.55233	.003	1
S2	.80000	.78972	-.010	-1.28	.04293	.000	1

Reviewed By:
On:
Inst Id :P4
LB :LB137573



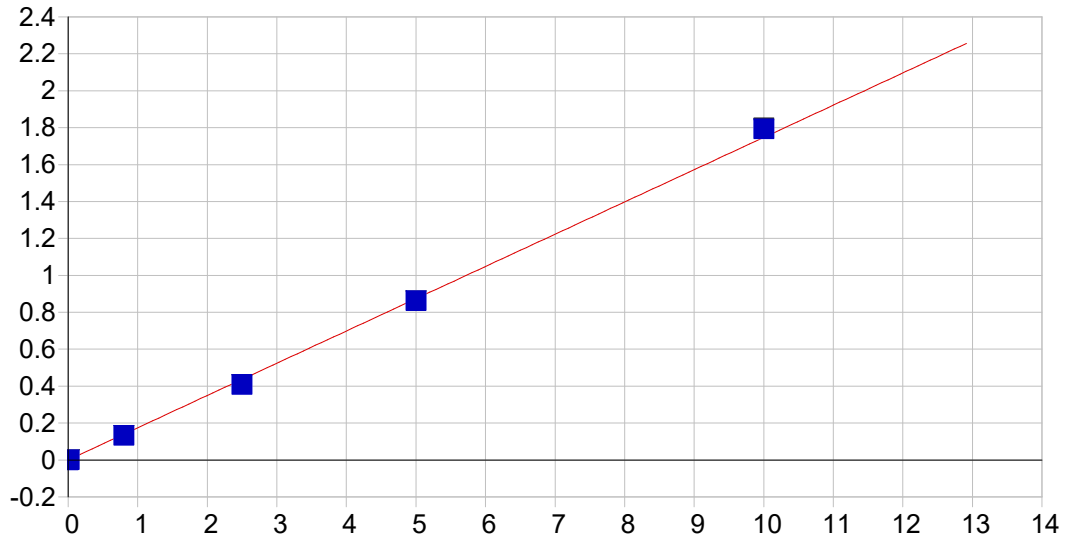
Tl 190.856 {477}

Date of Fit:	10/16/2025 12:15:58	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000740	Re-Slope:	1.000000
A1 (Gain):	0.035642	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999238	Status:	OK.
Std Error of Est:	0.000045		
Predicted MDL:	0.004157		
Predicted MQL:	0.013855		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00001	-.000	.000	.00074	.000	1
S1	.04000	.04888	.009	22.2	.00239	.000	1
S3	2.5000	2.5702	.070	2.81	.09072	.001	1
S4	5.0000	4.7341	-.266	-5.32	.16622	.003	1
S5	10.000	10.109	.109	1.09	.35454	.015	1
S2	.80000	.87841	.078	9.80	.03153	.000	1

Reviewed By:
On:
Inst Id :P4
LB :LB137573



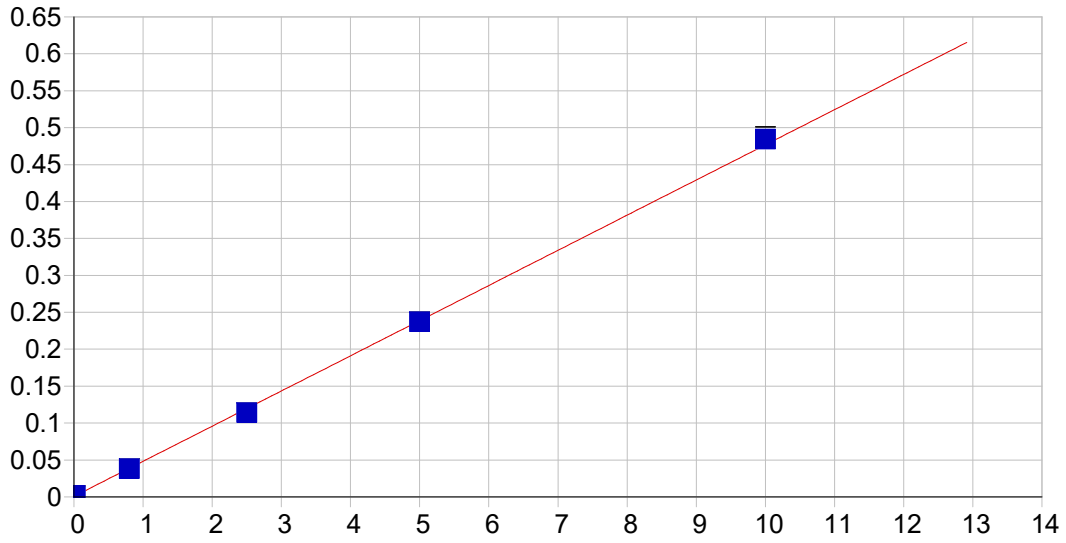
Pb 220.353 {453}

Date of Fit:	10/16/2025 12:15:58	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000004	Re-Slope:	1.000000
A1 (Gain):	0.174711	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999423	Status:	OK.
Std Error of Est:	0.000108		
Predicted MDL:	0.001962		
Predicted MQL:	0.006539		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	-.00000	.000	1
S1	.01200	.01036	-.002	-13.7	.00176	.000	1
S3	2.5000	2.3328	-.167	-6.69	.40708	.001	1
S4	5.0000	4.9377	-.062	-1.25	.86169	.002	1
S5	10.000	10.268	.268	2.68	1.7921	.004	1
S2	.80000	.76275	-.037	-4.66	.13310	.000	1

Reviewed By:
On:
Inst Id :P4
LB :LB137573



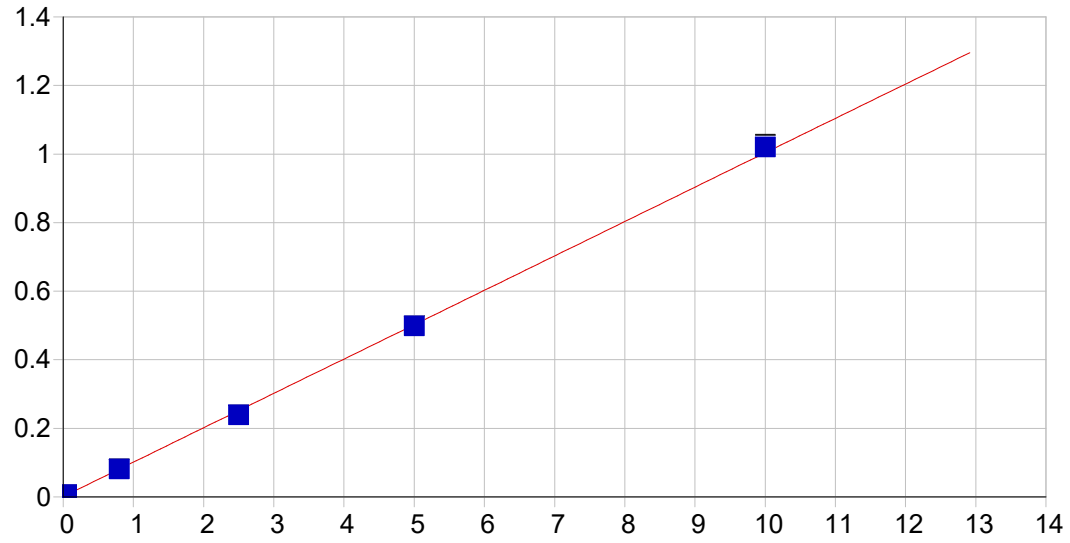
Se 196.090 {472}

Date of Fit:	10/16/2025 12:15:58	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000620	Re-Slope:	1.000000
A1 (Gain):	0.047614	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999777	Status:	OK.
Std Error of Est:	0.000024		
Predicted MDL:	0.003069		
Predicted MQL:	0.010230		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00062	.000	1
S1	.02000	.01944	-.001	-2.78	.00155	.000	1
S3	2.5000	2.3849	-.115	-4.60	.11414	.000	1
S4	5.0000	4.9650	-.035	-.699	.23696	.000	1
S5	10.000	10.159	.159	1.59	.48420	.003	1
S2	.80000	.79155	-.008	-1.06	.03830	.000	1

Reviewed By:
On:
Inst Id :P4
LB :LB137573



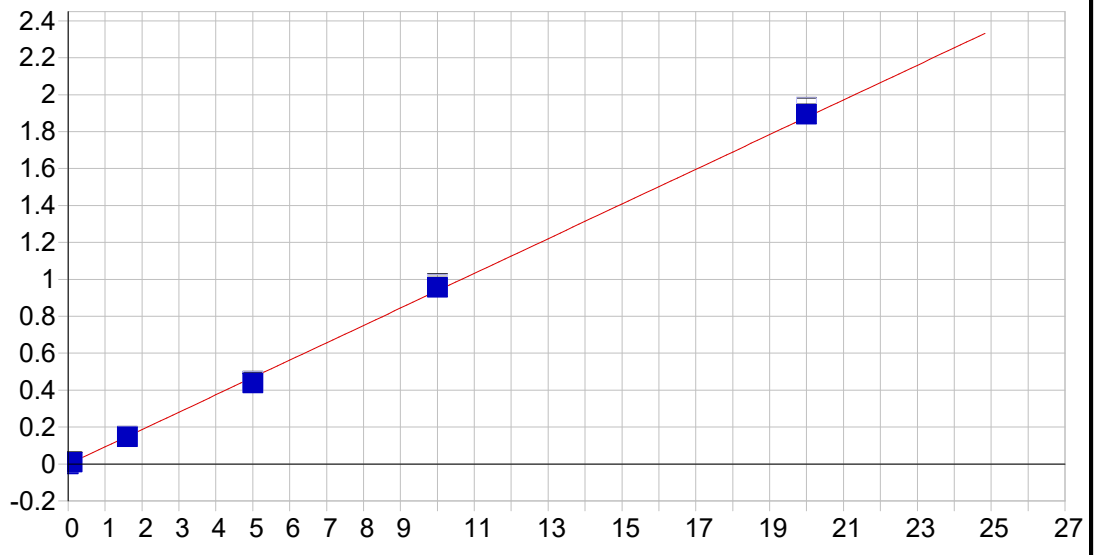
Sb 206.833 {463}

Date of Fit:	10/16/2025 12:15:58	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.001054	Re-Slope:	1.000000
A1 (Gain):	0.100260	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999746	Status:	OK.
Std Error of Est:	0.000084		
Predicted MDL:	0.001856		
Predicted MQL:	0.006188		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00105	.000	1
S1	.05000	.05095	.001	1.90	.00617	.000	1
S3	2.5000	2.3763	-.124	-4.95	.23998	.000	1
S4	5.0000	4.9581	-.042	-.838	.49951	.000	1
S5	10.000	10.169	.169	1.69	1.0233	.005	1
S2	.80000	.79571	-.004	-.537	.08105	.000	1

Reviewed By:
On:
Inst Id :P4
LB :LB137573



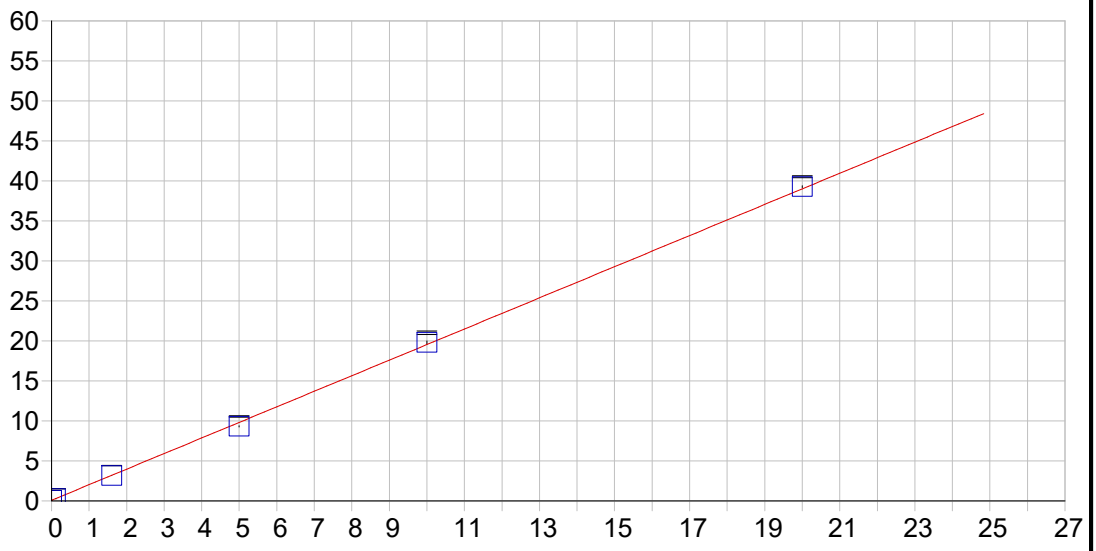
Al 396.152 { 85}

Date of Fit:	10/16/2025 12:15:58	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.001193	Re-Slope:	1.000000
A1 (Gain):	0.093947	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999625	Status:	OK.
Std Error of Est:	0.000195		
Predicted MDL:	0.011987		
Predicted MQL:	0.039957		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00119	.001	1
S1	.10000	.11011	.010	10.1	.00988	.001	1
S3	5.0000	4.6658	-.334	-6.68	.44626	.002	1
S4	10.000	10.186	.186	1.86	.97394	.003	1
S5	20.000	20.165	.165	.824	1.9297	.002	1
S2	1.6000	1.5731	-.027	-1.68	.14951	.001	1

Reviewed By:
On:
Inst Id :P4
LB :LB137573



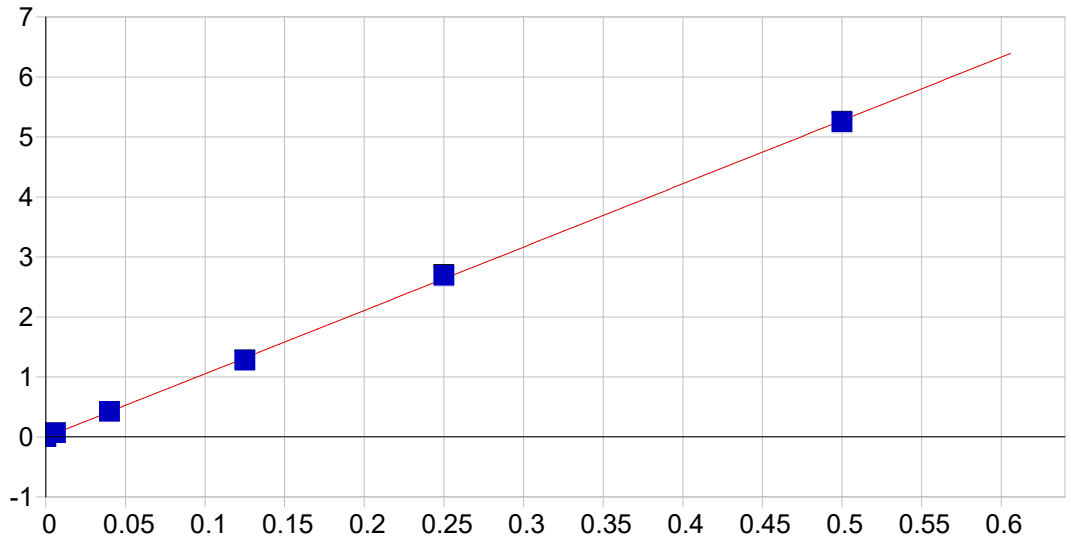
Ba 493.409 { 68}

Date of Fit:	10/16/2025 12:15:58	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.078835	Re-Slope:	1.000000
A1 (Gain):	1.946530	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999798	Status:	OK.
Std Error of Est:	0.002904		
Predicted MDL:	0.001554		
Predicted MQL:	0.005179		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.07884	.003	1
S1	.10000	.10069	.001	.686	.27482	.002	1
S3	5.0000	4.7521	-.248	-4.96	9.3290	.079	1
S4	10.000	10.123	.123	1.23	19.783	.219	1
S5	20.000	20.138	.138	.689	39.278	.130	1
S2	1.6000	1.5867	-.013	-.832	3.1674	.014	1

Reviewed By:
On:
Inst Id :P4
LB :LB137573



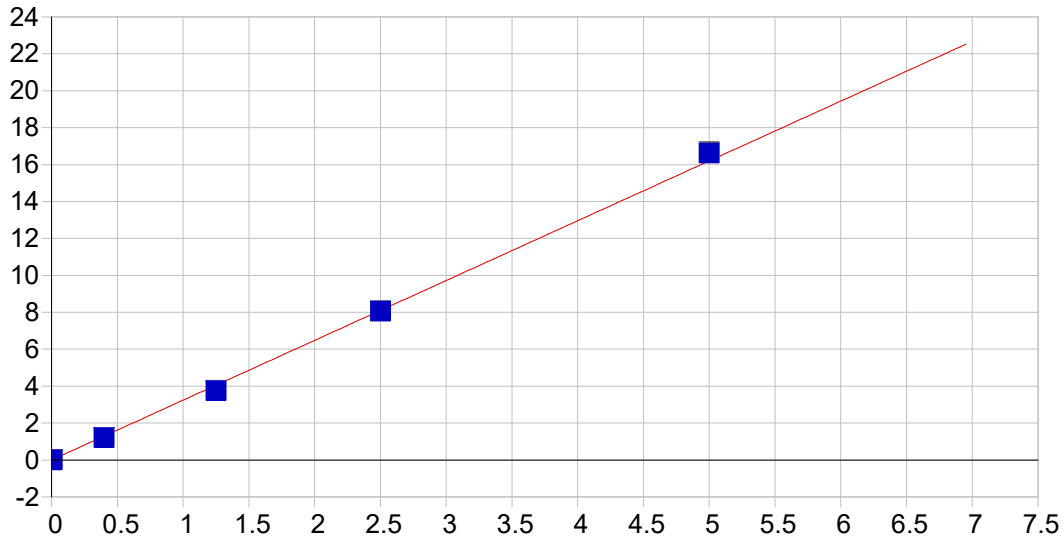
Be 234.861 {144}

Date of Fit:	10/16/2025 12:15:58	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.002797	Re-Slope:	1.000000
A1 (Gain):	10.553513	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999853	Status:	OK.
Std Error of Est:	0.000519		
Predicted MDL:	0.000067		
Predicted MQL:	0.000222		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00280	.001	1
S1	.00600	.00649	.000	8.16	.06522	.000	1
S3	.12500	.12115	-.004	-3.08	1.2699	.006	1
S4	.25000	.25500	.005	2.00	2.6765	.016	1
S5	.50000	.49801	-.002	-.397	5.2294	.010	1
S2	.04000	.04035	.000	.870	.42112	.001	1

Reviewed By:
On:
Inst Id :P4
LB :LB137573



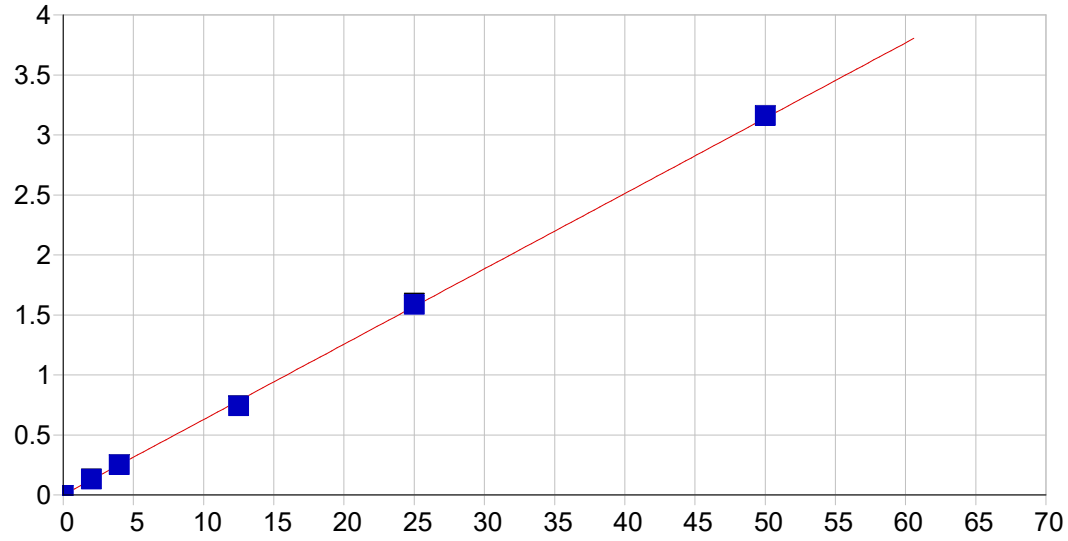
Cd 226.502 {449}

Date of Fit:	10/16/2025 12:15:58	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000285	Re-Slope:	1.000000
A1 (Gain):	3.239850	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999371	Status:	OK.
Std Error of Est:	0.001044		
Predicted MDL:	0.000071		
Predicted MQL:	0.000236		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	-.00028	.000	1
S1	.00600	.00586	-.000	-2.27	.01878	.000	1
S3	1.2500	1.1611	-.089	-7.11	3.7641	.001	1
S4	2.5000	2.4875	-.012	-.499	8.0643	.008	1
S5	5.0000	5.1287	.129	2.57	16.627	.050	1
S2	.40000	.37286	-.027	-6.79	1.2086	.002	1

Reviewed By:
On:
Inst Id :P4
LB :LB137573



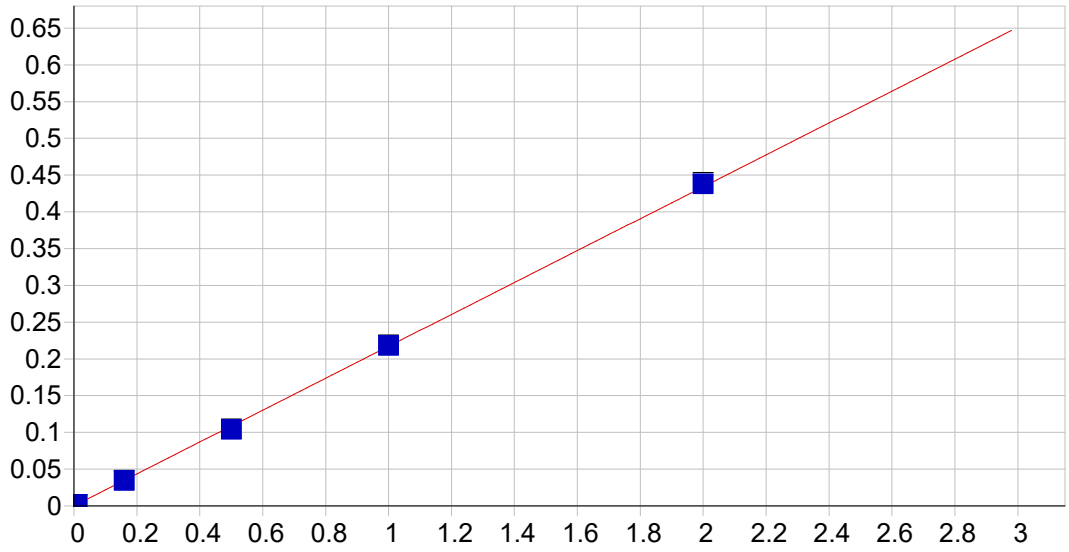
Ca 373.690 { 90}

Date of Fit:	10/16/2025 12:15:58	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000276	Re-Slope:	1.000000
A1 (Gain):	0.062779	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999763	Status:	OK.
Std Error of Est:	0.000723		
Predicted MDL:	0.014217		
Predicted MQL:	0.047389		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00028	.000	1
S2	4.0000	4.0027	.003	.068	.25156	.001	1
S3	12.500	11.825	-.675	-5.40	.74261	.001	1
S4	25.000	25.284	.284	1.13	1.5875	.010	1
S5	50.000	50.318	.318	.636	3.1592	.004	1
S1	2.0000	2.0714	.071	3.57	.13031	.001	1

Reviewed By:
On:
Inst Id :P4
LB :LB137573



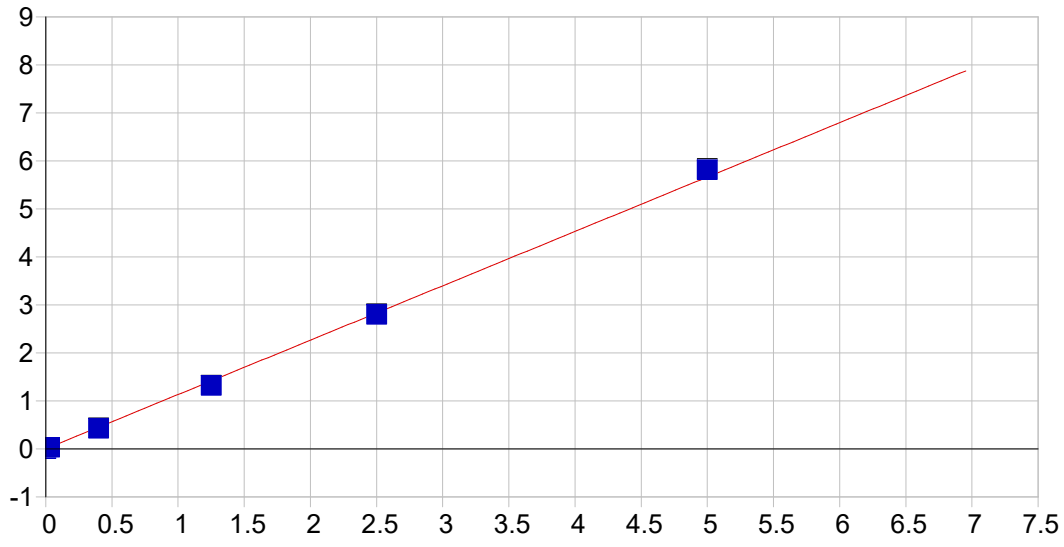
Cr 267.716 {126}

Date of Fit:	10/16/2025 12:15:58	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000083	Re-Slope:	1.000000
A1 (Gain):	0.217008	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999843	Status:	OK.
Std Error of Est:	0.000029		
Predicted MDL:	0.000339		
Predicted MQL:	0.001131		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00008	.000	1
S1	.01000	.01056	.001	5.63	.00238	.000	1
S3	.50000	.47845	-.022	-4.31	.10400	.000	1
S4	1.0000	1.0040	.004	.402	.21814	.001	1
S5	2.0000	2.0182	.018	.912	.43840	.002	1
S2	.16000	.15871	-.001	-.804	.03455	.000	1

Reviewed By:
On:
Inst Id :P4
LB :LB137573



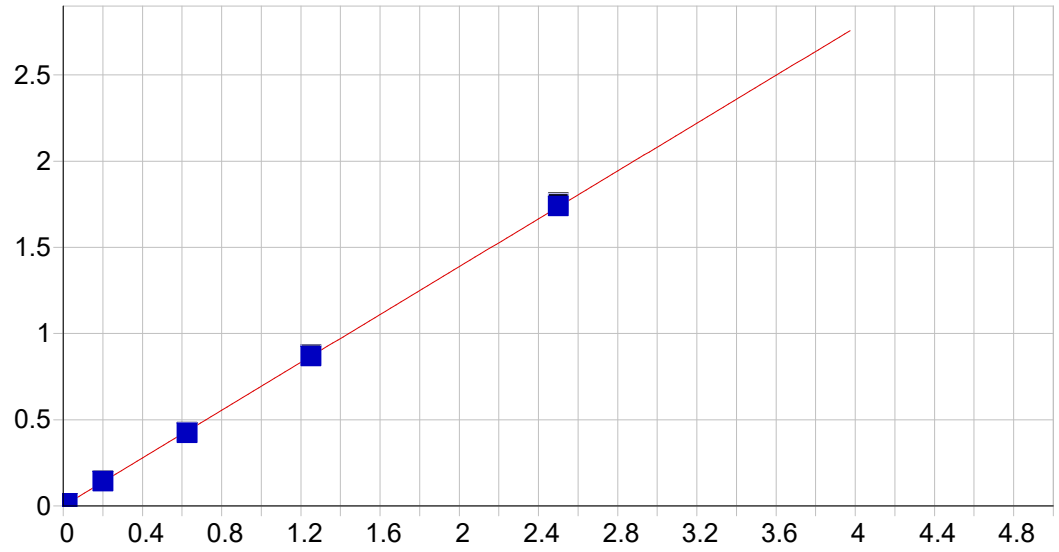
Co 228.616 {448}

Date of Fit:	10/16/2025 12:15:58	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000020	Re-Slope:	1.000000
A1 (Gain):	1.132731	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999430	Status:	OK.
Std Error of Est:	0.000779		
Predicted MDL:	0.000180		
Predicted MQL:	0.000600		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00002	.000	1
S1	.03000	.02965	-.000	-1.18	.03346	.000	1
S3	1.2500	1.1656	-.084	-6.75	1.3227	.001	1
S4	2.5000	2.4733	-.027	-1.07	2.8064	.004	1
S5	5.0000	5.1319	.132	2.64	5.8227	.016	1
S2	.40000	.37957	-.020	-5.11	.43073	.001	1

Reviewed By:
On:
Inst Id :P4
LB :LB137573



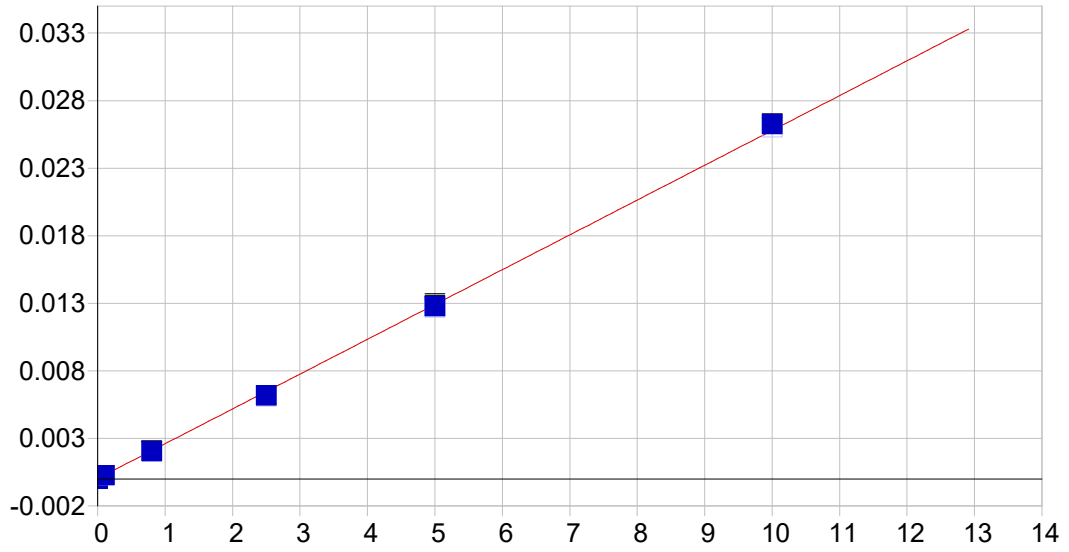
Cu 224.700 {450}

Date of Fit:	10/16/2025 12:15:58	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000516	Re-Slope:	1.000000
A1 (Gain):	0.693839	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999900	Status:	OK.
Std Error of Est:	0.000116		
Predicted MDL:	0.000407		
Predicted MQL:	0.001356		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00051	.000	1
S1	.02000	.02272	.003	13.6	.01644	.000	1
S3	.62500	.60884	-.016	-2.59	.42657	.000	1
S4	1.2500	1.2520	.002	.157	.87640	.001	1
S5	2.5000	2.5065	.006	.260	1.7541	.004	1
S2	.20000	.20497	.005	2.49	.14389	.001	1

Reviewed By:
On:
Inst Id :P4
LB :LB137573



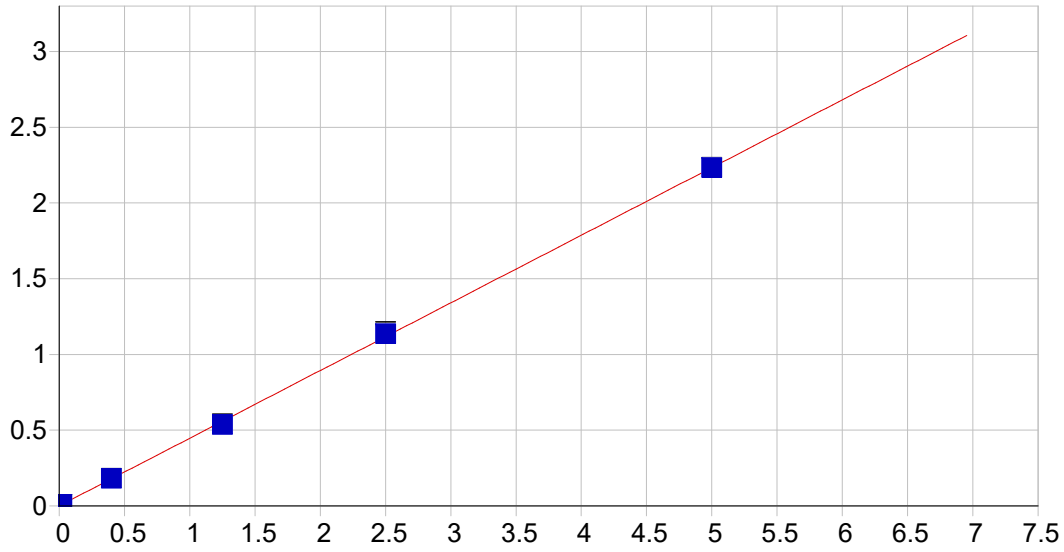
Fe 240.488 {140}

Date of Fit:	10/16/2025 12:15:58	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000023	Re-Slope:	1.000000
A1 (Gain):	0.002577	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999745	Status:	OK.
Std Error of Est:	0.000003		
Predicted MDL:	0.008761		
Predicted MQL:	0.029204		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00001	.000	.000	.00002	.000	1
S1	.10000	.09853	-.001	-1.47	.00027	.000	1
S3	2.5000	2.3832	-.117	-4.67	.00611	.000	1
S4	5.0000	4.9550	-.045	-.900	.01268	.000	1
S5	10.000	10.177	.177	1.77	.02603	.000	1
S2	.80000	.78659	-.013	-1.68	.00203	.000	1

Reviewed By:
On:
Inst Id :P4
LB :LB137573



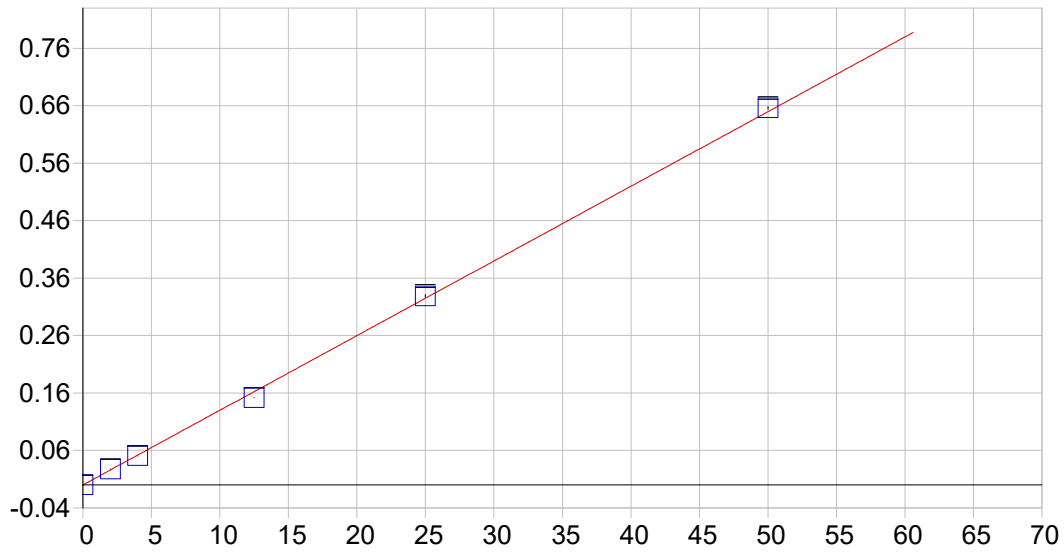
Mn 257.610 {131}

Date of Fit:	10/16/2025 12:15:58	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000180	Re-Slope:	1.000000
A1 (Gain):	0.446712	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999827	Status:	OK.
Std Error of Est:	0.000138		
Predicted MDL:	0.000718		
Predicted MQL:	0.002395		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00018	.000	1
S1	.02000	.02220	.002	11.0	.01010	.000	1
S3	1.2500	1.1998	-.050	-4.02	.53624	.005	1
S4	2.5000	2.5436	.044	1.75	1.1367	.013	1
S5	5.0000	4.9968	-.003	-.063	2.2328	.003	1
S2	.40000	.40756	.008	1.89	.18228	.000	1

Reviewed By:
On:
Inst Id :P4
LB :LB137573



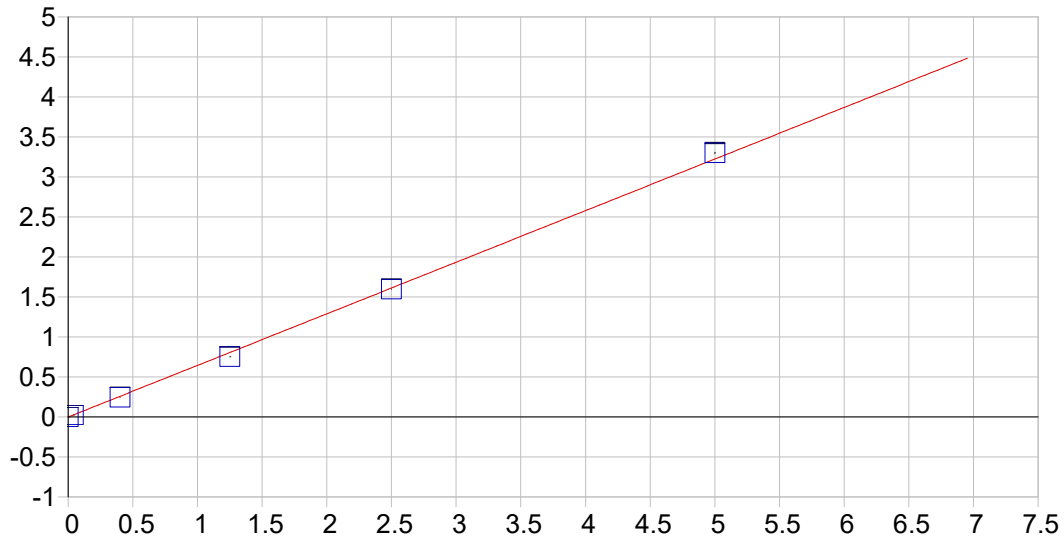
Mg 279.079 {121}

Date of Fit:	10/16/2025 12:15:58	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000004	Re-Slope:	1.000000
A1 (Gain):	0.012995	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999615	Status:	OK.
Std Error of Est:	0.000191		
Predicted MDL:	0.031985		
Predicted MQL:	0.106617		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00002	.000	.000	.00000	.000	1
S2	4.0000	3.9028	-.097	-2.43	.05072	.000	1
S3	12.500	11.676	-.824	-6.60	.15173	.000	1
S4	25.000	25.311	.311	1.25	.32893	.003	1
S5	50.000	50.496	.496	.993	.65621	.002	1
S1	2.0000	2.1138	.114	5.69	.02747	.000	1

Reviewed By:
On:
Inst Id :P4
LB :LB137573



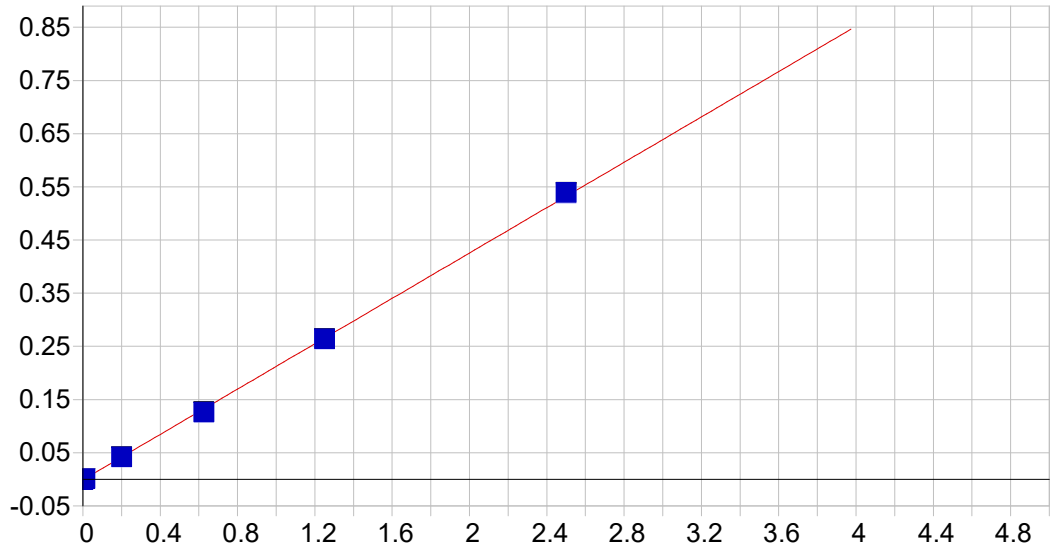
Ni 231.604 {446}

Date of Fit:	10/16/2025 12:15:58	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000907	Re-Slope:	1.000000
A1 (Gain):	0.644859	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999519	Status:	OK.
Std Error of Est:	0.000470		
Predicted MDL:	0.000338		
Predicted MQL:	0.001125		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	-.00090	.000	1
S1	.04000	.04017	.000	.423	.02500	.000	1
S3	1.2500	1.1703	-.080	-6.38	.75377	.000	1
S4	2.5000	2.4780	-.022	-.880	1.5971	.002	1
S5	5.0000	5.1188	.119	2.38	3.3000	.010	1
S2	.40000	.38271	-.017	-4.32	.24589	.000	1

Reviewed By:
On:
Inst Id :P4
LB :LB137573



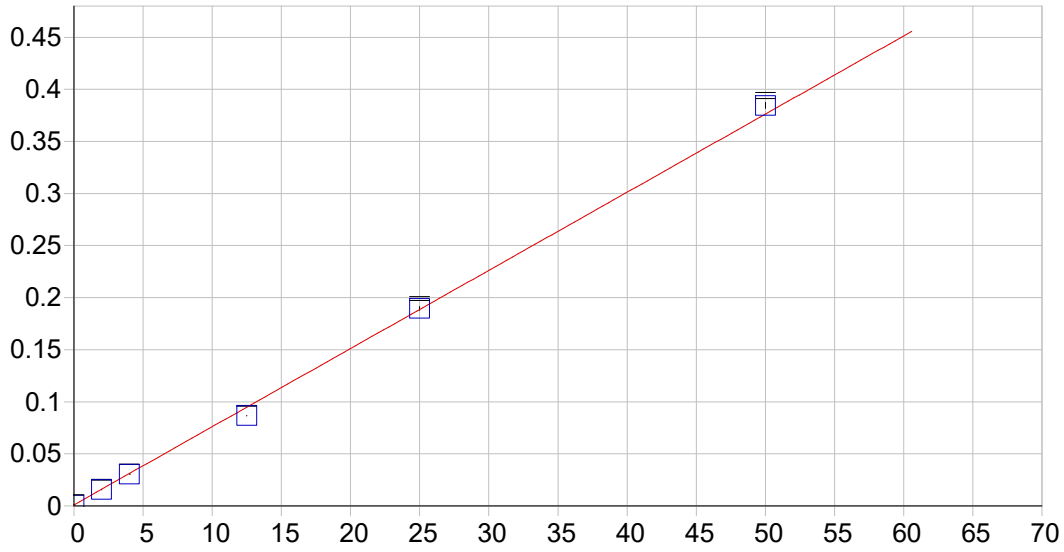
Ag 328.068 {103}

Date of Fit:	10/16/2025 12:15:58	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000918	Re-Slope:	1.000000
A1 (Gain):	0.213251	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999808	Status:	OK.
Std Error of Est:	0.000034		
Predicted MDL:	0.000545		
Predicted MQL:	0.001815		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00092	.000	1
S1	.01000	.01074	.001	7.44	.00136	.000	1
S3	.62500	.59776	-.027	-4.36	.12601	.000	1
S4	1.2500	1.2424	-.008	-.607	.26295	.000	1
S5	2.5000	2.5338	.034	1.35	.53726	.001	1
S2	.20000	.20029	.000	.145	.04162	.000	1

Reviewed By:
On:
Inst Id :P4
LB :LB137573



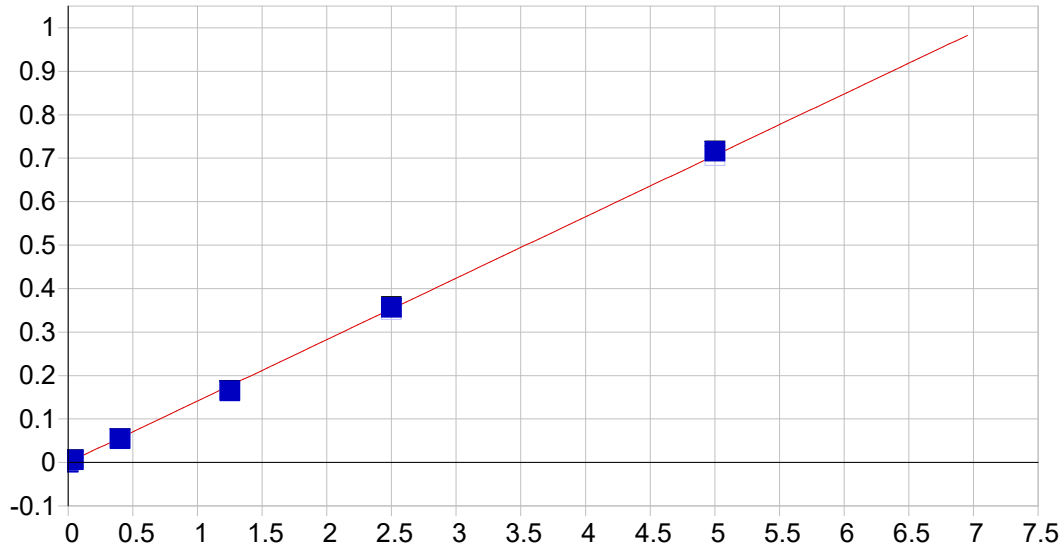
Na 589.592 { 57}

Date of Fit:	10/16/2025 12:15:58	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.001025	Re-Slope:	1.000000
A1 (Gain):	0.007505	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999349	Status:	OK.
Std Error of Est:	0.000143		
Predicted MDL:	0.021357		
Predicted MQL:	0.071190		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00022	.000	.000	.00103	.000	1
S2	4.0000	3.9148	-.085	-2.13	.03040	.000	1
S3	12.500	11.417	-1.08	-8.66	.08671	.000	1
S4	25.000	25.124	.124	.496	.18957	.002	1
S5	50.000	51.098	1.10	2.20	.38450	.003	1
S1	2.0000	1.9459	-.054	-2.70	.01563	.000	1

Reviewed By:
On:
Inst Id :P4
LB :LB137573



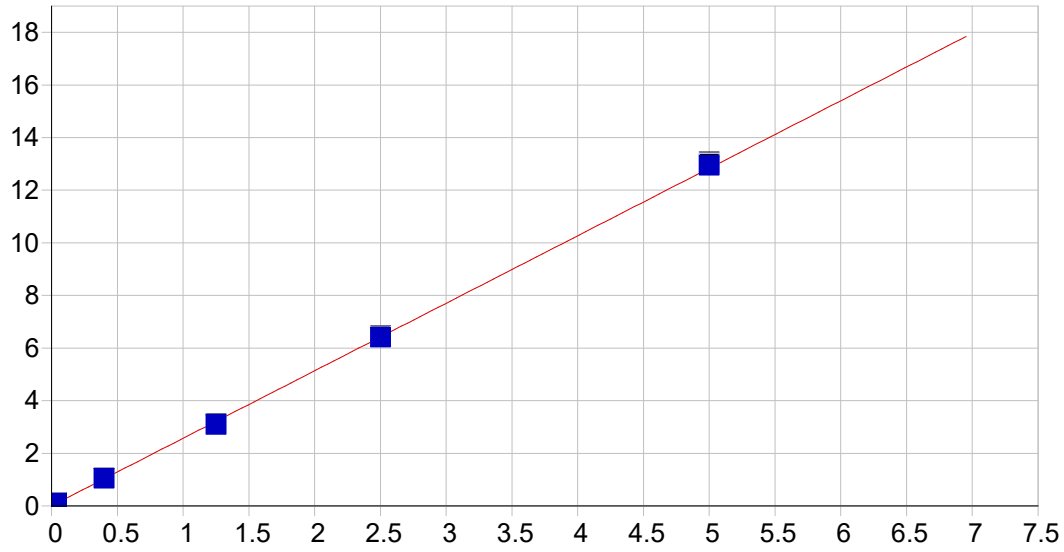
V 292.402 {115}

Date of Fit:	10/16/2025 12:15:58	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000070	Re-Slope:	1.000000
A1 (Gain):	0.141319	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999627	Status:	OK.
Std Error of Est:	0.000089		
Predicted MDL:	0.003430		
Predicted MQL:	0.011434		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	-.00007	.001	1
S1	.04000	.04099	.001	2.46	.00551	.000	1
S3	1.2500	1.1710	-.079	-6.32	.16283	.000	1
S4	2.5000	2.5251	.025	1.00	.35162	.002	1
S5	5.0000	5.0670	.067	1.34	.70569	.000	1
S2	.40000	.38598	-.014	-3.51	.05365	.000	1

Reviewed By:
On:
Inst Id :P4
LB :LB137573



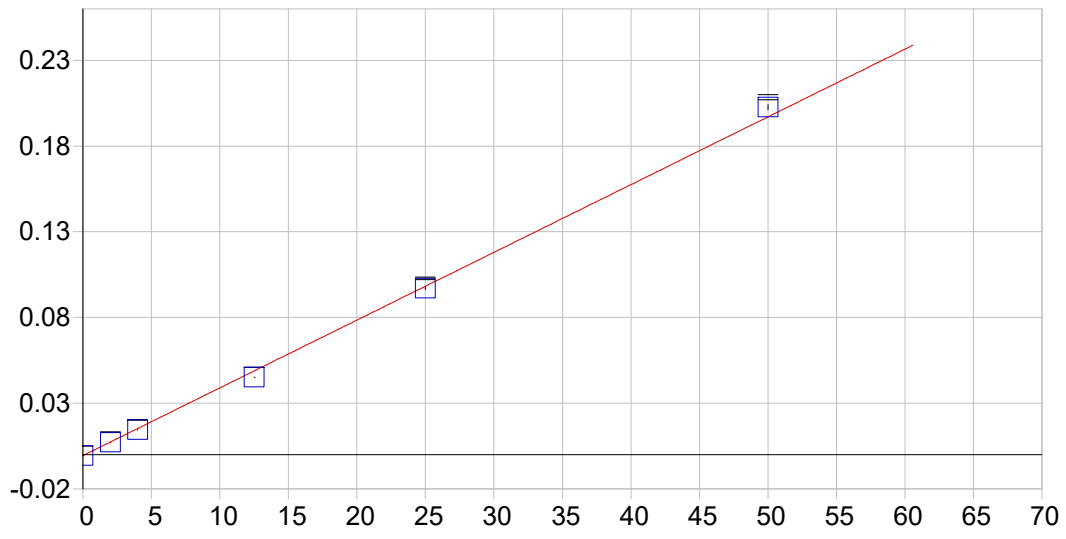
Zn 213.856 {158}

Date of Fit:	10/16/2025 12:15:58	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.004479	Re-Slope:	1.000000
A1 (Gain):	2.566076	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999864	Status:	OK.
Std Error of Est:	0.001002		
Predicted MDL:	0.000239		
Predicted MQL:	0.000798		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00447	.000	1
S1	.04000	.04317	.003	7.92	.11597	.000	1
S3	1.2500	1.2019	-.048	-3.85	3.1110	.010	1
S4	2.5000	2.4973	-.003	-.109	6.4573	.018	1
S5	5.0000	5.0414	.041	.828	13.030	.043	1
S2	.40000	.40622	.006	1.56	1.0540	.002	1

Reviewed By:
On:
Inst Id :P4
LB :LB137573



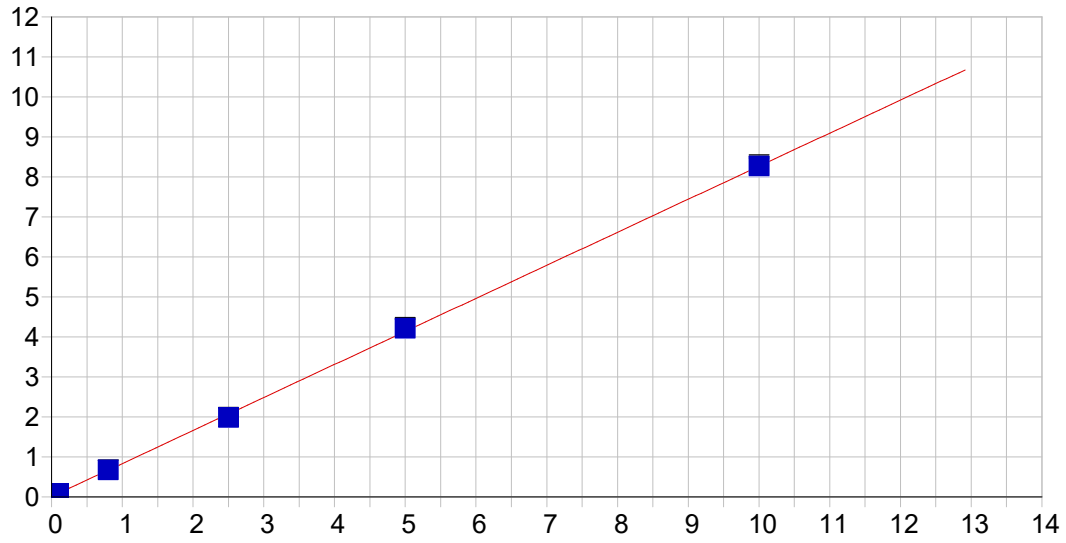
K 766.490 { 44}

Date of Fit:	10/16/2025 12:15:58	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000545	Re-Slope:	1.000000
A1 (Gain):	0.003951	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999345	Status:	OK.
Std Error of Est:	0.000076		
Predicted MDL:	0.048834		
Predicted MQL:	0.162780		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00024	.000	.000	-.00054	.000	1
S2	4.0000	3.8294	-.171	-4.27	.01459	.000	1
S3	12.500	11.566	-.934	-7.47	.04516	.000	1
S4	25.000	24.706	-.294	-1.18	.09708	.001	1
S5	50.000	51.436	1.44	2.87	.20270	.001	1
S1	2.0000	1.9630	-.037	-1.85	.00721	.000	1

Reviewed By:
On:
Inst Id :P4
LB :LB137573



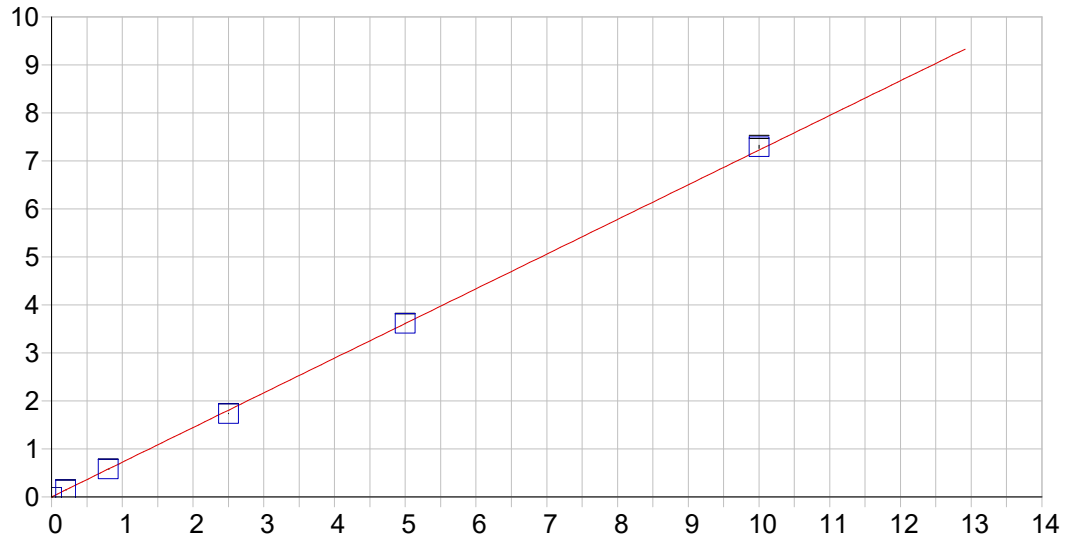
B 249.678 {135}

Date of Fit:	10/16/2025 12:15:58	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.006979	Re-Slope:	1.000000
A1 (Gain):	0.826086	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999822	Status:	OK.
Std Error of Est:	0.000815		
Predicted MDL:	0.000851		
Predicted MQL:	0.002837		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00698	.001	1
S1	.10000	.10314	.003	3.14	.09169	.001	1
S3	2.5000	2.3940	-.106	-4.24	1.9771	.004	1
S4	5.0000	5.0965	.097	1.93	4.2023	.019	1
S5	10.000	10.001	.001	.013	8.2392	.034	1
S2	.80000	.80503	.005	.628	.66962	.005	1

Reviewed By:
On:
Inst Id :P4
LB :LB137573



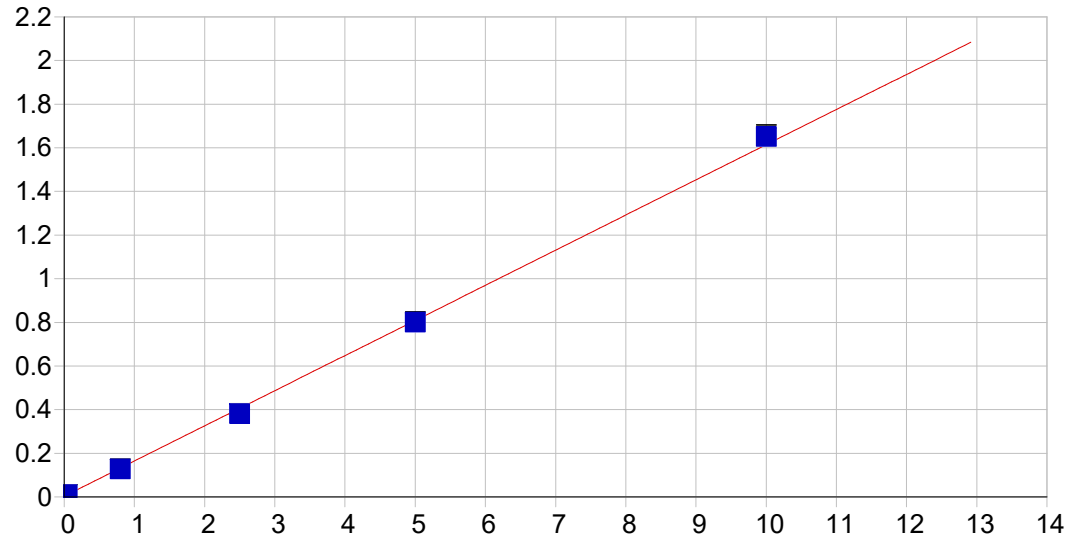
Mo 202.030 {467}

Date of Fit:	10/16/2025 12:15:58	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000654	Re-Slope:	1.000000
A1 (Gain):	0.722435	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999864	Status:	OK.
Std Error of Est:	0.000887		
Predicted MDL:	0.000247		
Predicted MQL:	0.000823		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00066	.000	1
S1	.20000	.20292	.003	1.46	.14725	.000	1
S3	2.5000	2.3989	-.101	-4.05	1.7337	.004	1
S4	5.0000	5.0000	.000	.001	3.6129	.005	1
S5	10.000	10.094	.094	.937	7.2927	.032	1
S2	.80000	.80448	.004	.560	.58184	.001	1

Reviewed By:
On:
Inst Id :P4
LB :LB137573



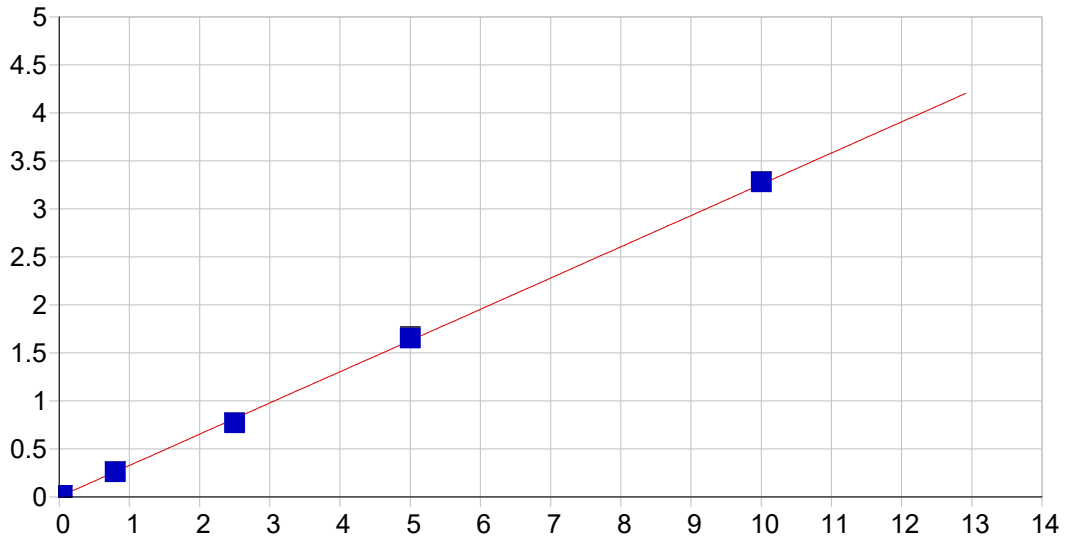
Sn 189.989 {478}

Date of Fit:	10/16/2025 12:15:58	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.003334	Re-Slope:	1.000000
A1 (Gain):	0.161090	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999551	Status:	OK.
Std Error of Est:	0.000160		
Predicted MDL:	0.000600		
Predicted MQL:	0.001999		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00333	.000	1
S1	.04000	.04000	-.000	-.007	.00977	.000	1
S3	2.5000	2.3487	-.151	-6.05	.38128	.001	1
S4	5.0000	4.9488	-.051	-1.02	.79971	.002	1
S5	10.000	10.235	.235	2.35	1.6504	.008	1
S2	.80000	.76795	-.032	-4.01	.12691	.000	1

Reviewed By:
On:
Inst Id :P4
LB :LB137573



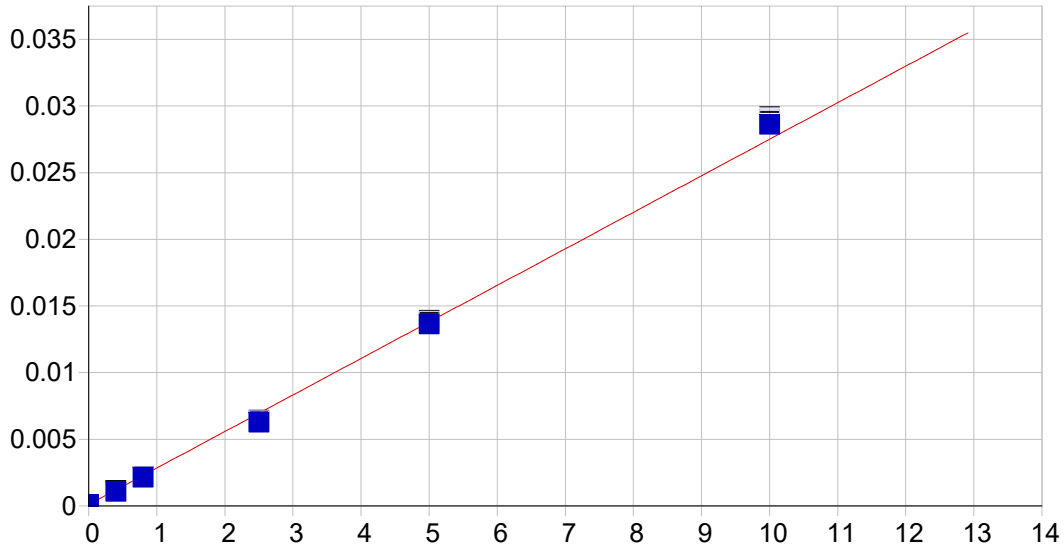
Ti 336.121 {100}

Date of Fit:	10/16/2025 12:15:58	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.001934	Re-Slope:	1.000000
A1 (Gain):	0.325384	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999730	Status:	OK.
Std Error of Est:	0.000251		
Predicted MDL:	0.001945		
Predicted MQL:	0.006482		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00193	.001	1
S1	.04000	.03877	-.001	-3.08	.01454	.000	1
S3	2.5000	2.3573	-.143	-5.71	.76866	.002	1
S4	5.0000	5.0729	.073	1.46	1.6520	.014	1
S5	10.000	10.077	.077	.774	3.2798	.004	1
S2	.80000	.79370	-.006	-.787	.26010	.002	1

Reviewed By:
On:
Inst Id :P4
LB :LB137573



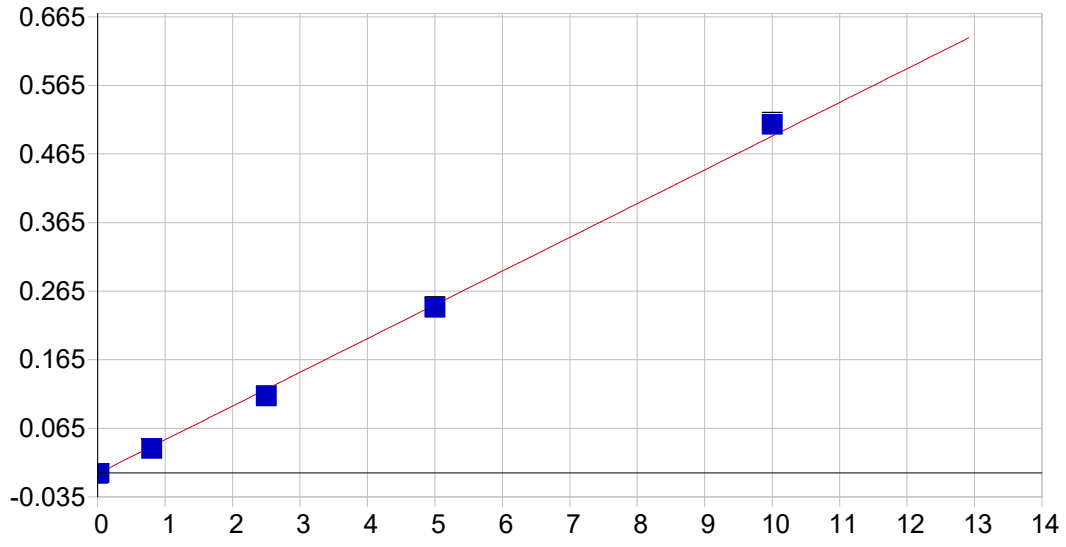
Si 288.158 {117}

Date of Fit:	10/16/2025 12:15:58	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000098	Re-Slope:	1.000000
A1 (Gain):	0.002741	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.998709	Status:	OK.
Std Error of Est:	0.000015		
Predicted MDL:	0.014801		
Predicted MQL:	0.049336		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00010	.000	.000	.00010	.000	1
S1	.40000	.35742	-.043	-10.6	.00108	.000	1
S3	2.5000	2.2530	-.247	-9.88	.00638	.000	1
S4	5.0000	4.9390	-.061	-1.22	.01384	.000	1
S5	10.000	10.405	.405	4.05	.02903	.000	1
S2	.80000	.74539	-.055	-6.83	.00217	.000	1

Reviewed By:
On:
Inst Id :P4
LB :LB137573



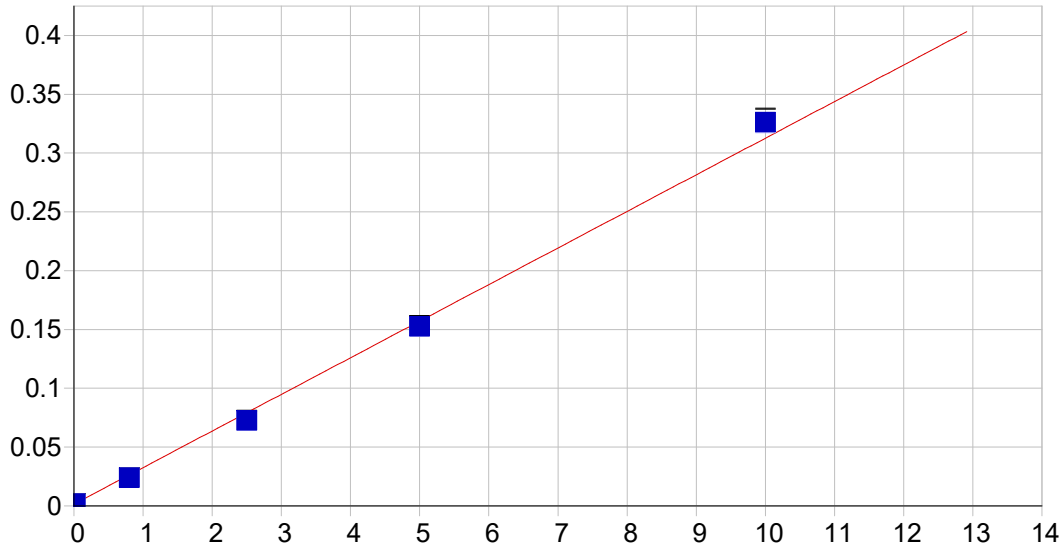
P 177.495 {490}

Date of Fit:	10/16/2025 12:15:58	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000938	Re-Slope:	1.000000
A1 (Gain):	0.049194	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999050	Status:	OK.
Std Error of Est:	0.000050		
Predicted MDL:	0.001604		
Predicted MQL:	0.005347		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	-.00094	.000	1
S1	.02000	.01903	-.001	-4.85	-.00000	.000	1
S3	2.5000	2.2960	-.204	-8.16	.11199	.000	1
S4	5.0000	4.9259	-.074	-1.48	.24135	.001	1
S5	10.000	10.344	.344	3.44	.50783	.003	1
S2	.80000	.73533	-.065	-8.08	.03523	.000	1

Reviewed By:
On:
Inst Id :P4
LB :LB137573



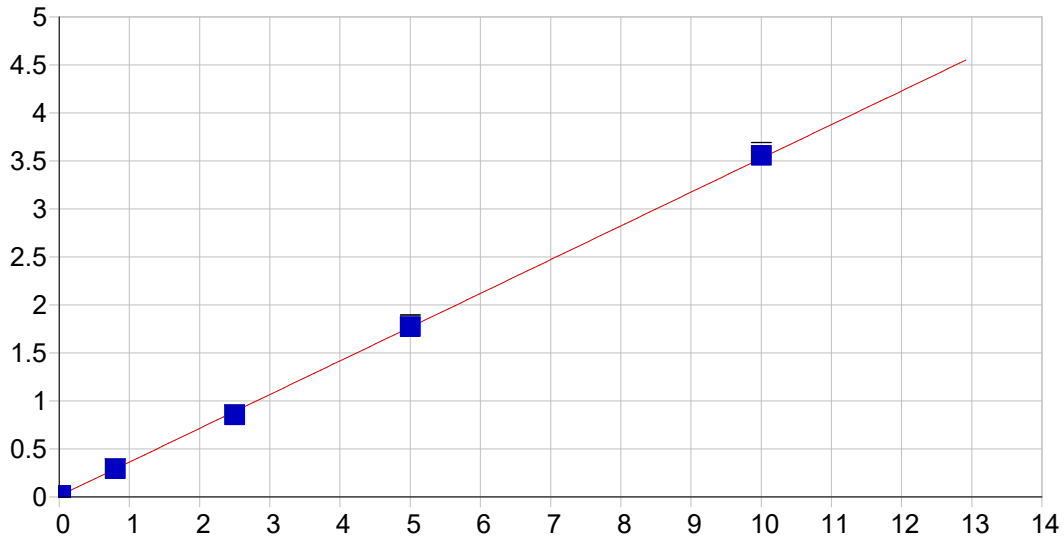
S 182.034 {485}

Date of Fit:	10/16/2025 12:15:58	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.001469	Re-Slope:	1.000000
A1 (Gain):	0.031119	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.998646	Status:	OK.
Std Error of Est:	0.000038		
Predicted MDL:	0.002810		
Predicted MQL:	0.009367		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00001	.000	.000	.00147	.000	1
S1	.02000	.01760	-.002	-12.0	.00199	.000	1
S3	2.5000	2.2854	-.215	-8.58	.07239	.000	1
S4	5.0000	4.8582	-.142	-2.84	.15225	.001	1
S5	10.000	10.437	.437	4.37	.32544	.004	1
S2	.80000	.72189	-.078	-9.76	.02387	.000	1

Reviewed By:
On:
Inst Id :P4
LB :LB137573



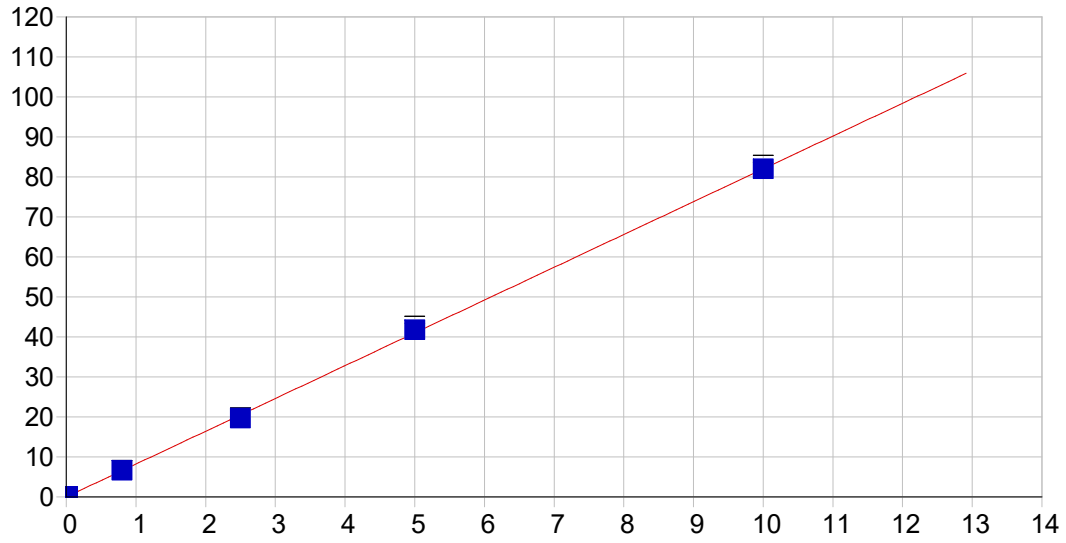
Li 670.784 { 50}

Date of Fit:	10/16/2025 12:15:58	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.010885	Re-Slope:	1.000000
A1 (Gain):	0.351506	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999866	Status:	OK.
Std Error of Est:	0.000135		
Predicted MDL:	0.007258		
Predicted MQL:	0.024194		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.01089	.002	1
S5	10.000	10.084	.084	.836	3.5582	.032	1
S4	5.0000	5.0185	.019	.370	1.7763	.016	1
S3	2.5000	2.3982	-.102	-4.07	.85457	.002	1
S1	.02000	.02041	.000	2.07	.01818	.002	1
S2	.80000	.79924	-.001	-.096	.29205	.003	1

Reviewed By:
On:
Inst Id :P4
LB :LB137573



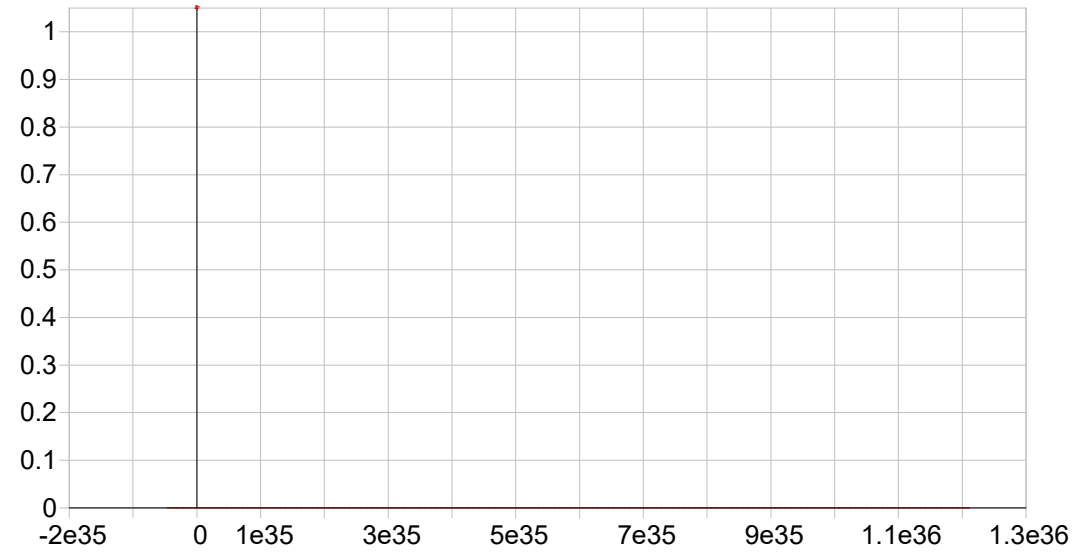
Sr 407.771 { 83}

Date of Fit:	10/16/2025 12:15:58	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.001685	Re-Slope:	1.000000
A1 (Gain):	8.200071	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999844	Status:	OK.
Std Error of Est:	0.003397		
Predicted MDL:	0.000132		
Predicted MQL:	0.000440		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00167	.001	1
S1	.02000	.02145	.001	7.23	.17832	.000	1
S3	2.5000	2.4022	-.098	-3.91	19.720	.157	1
S4	5.0000	5.0937	.094	1.87	41.809	.880	1
S5	10.000	9.9968	-.003	-.032	82.055	.888	1
S2	.80000	.80585	.006	.731	6.6160	.034	1

Reviewed By:
On:
Inst Id :P4
LB :LB137573

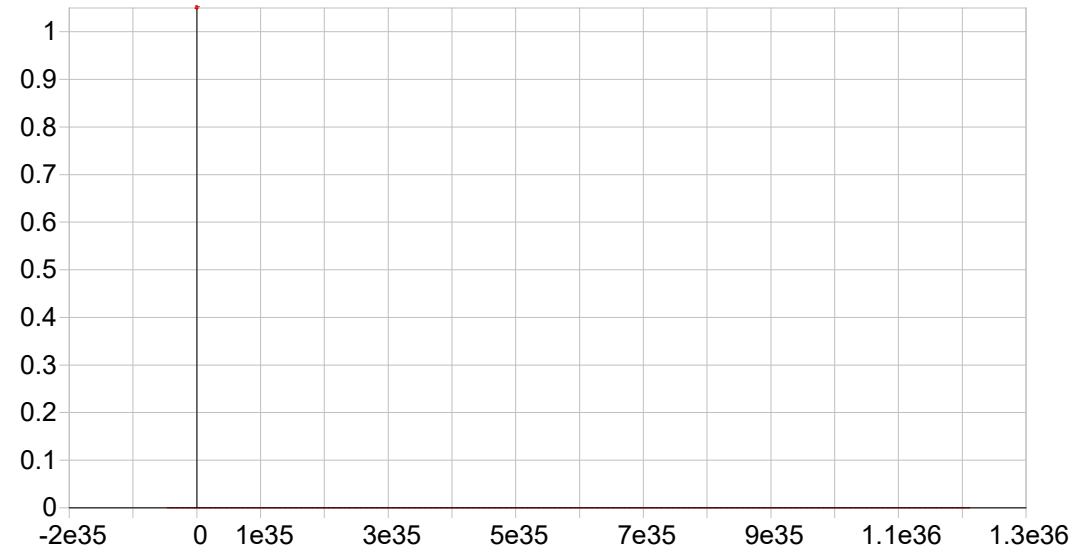


Y 224.306 {450}*

Date of Fit:	10/16/2025 12:15:58	Type of Fit:	Linear	Weighting:	1/Conc

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

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



Y 360.073 { 94}*

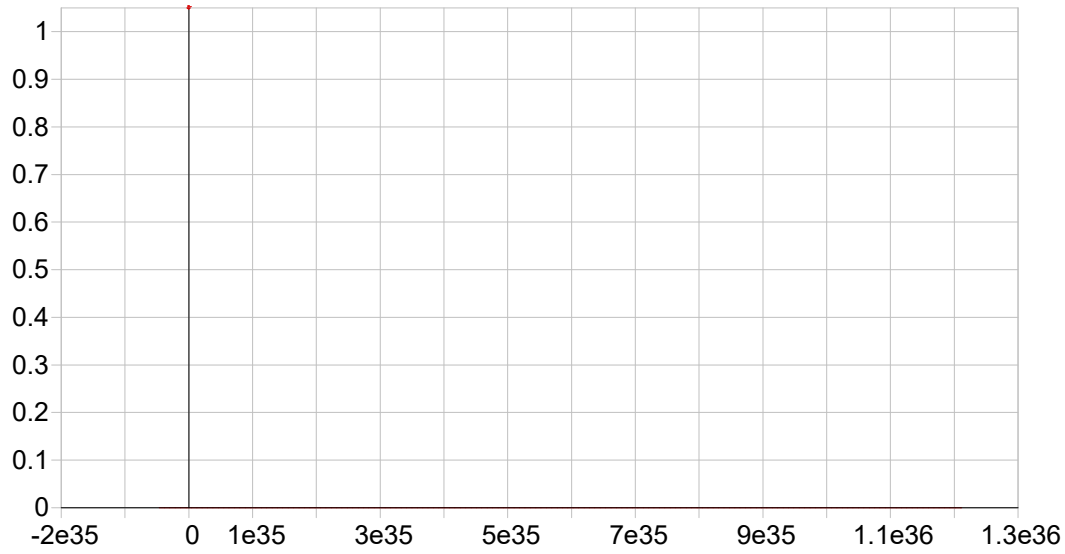
Date of Fit:	<not fit>	Type of Fit:	Linear	Weighting:	1/Conc

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

Reviewed By:
On:
Inst Id :P4
LB :LB137573

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

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

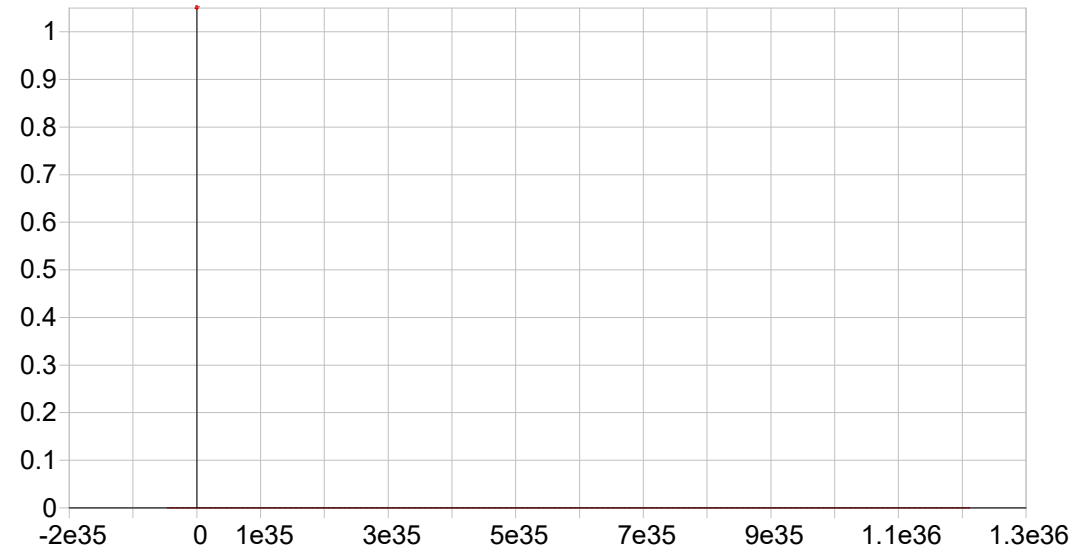


Y 371.030 { 91}*

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

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

Reviewed By:
On:
Inst Id :P4
LB :LB137573

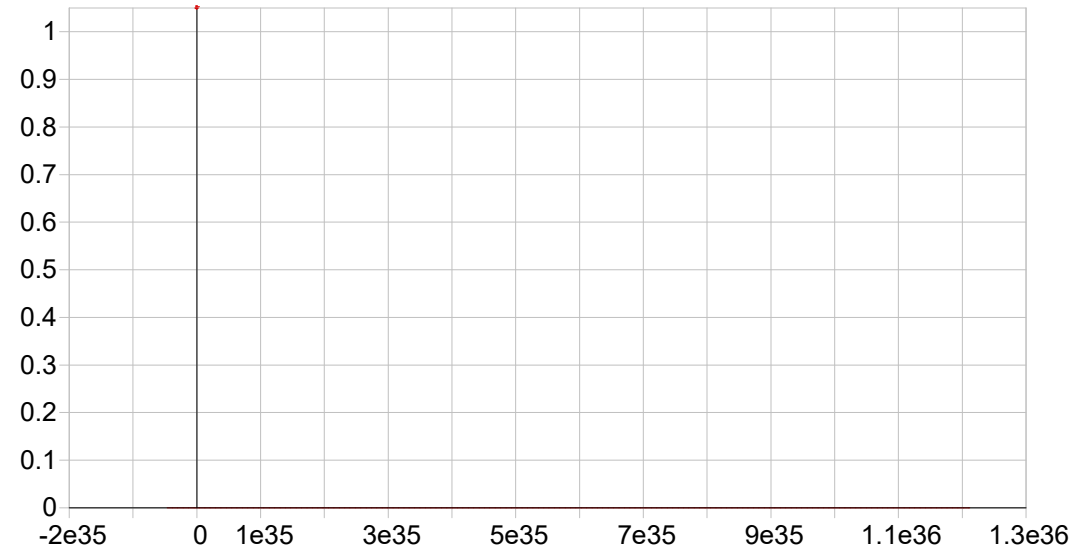


Y 224.306 {150}*

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

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

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



In 230.606 {446}*

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

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

Reviewed By:
On:
Inst Id :P4
LB :LB137573

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

Reviewed By:
On:
Inst Id :P4
LB :LB137573

Sample Name: S0 Acquired: 10/16/2025 11:08:53 Type: Cal
Method: 6010-200.7 NEW(v286) 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	**-.00002**	**.00074**	**-.00000**	**.00062**	**.00105**	**-.00119**	**.07884**	**-.00280**
Stddev	.00007	.00016	.00036	.00023	.00009	.00122	.00285	.00050
%RSD	305.21	21.430	9185.2	36.495	8.8867	102.55	3.6200	17.922
#1	-.00006	.00082	.00041	.00043	.00095	-.00260	.08201	-.00224
#2	.00006	.00056	-.00021	.00087	.00107	-.00059	.07804	-.00296
#3	-.00007	.00084	-.00021	.00055	.00114	-.00039	.07647	-.00320

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	**-.00028**	**.00028**	**.00008**	**.00002**	**.00051**	**.00002**	**.00018**	**.00000**
Stddev	.00017	.00011	.00002	.00006	.00028	.00003	.00009	.00025
%RSD	59.665	41.681	28.048	236.04	54.221	116.60	50.944	6028.4
#1	-.00012	.00030	.00008	.00002	.00083	.00002	.00025	-.00015
#2	-.00046	.00015	.00011	-.00003	.00042	-.00000	.00008	.00029
#3	-.00026	.00038	.00006	.00008	.00029	.00005	.00021	-.00012

Elem	Ni2316	Ag3280	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**-.00090**	**-.00092**	**.00103**	**-.00007**	**.00447**	**-.00054**	**.00698**	**.00066**
Stddev	.00011	.00004	.00010	.00066	.00038	.00024	.00058	.00013
%RSD	11.982	4.4412	9.4855	940.55	8.6019	44.339	8.3302	19.729
#1	-.00096	-.00093	.00094	-.00077	.00486	-.00070	.00759	.00076
#2	-.00078	-.00095	.00113	.00054	.00409	-.00027	.00643	.00070
#3	-.00098	-.00087	.00101	.00002	.00447	-.00067	.00691	.00051

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	**.00333**	**.00193**	**.00010**	**-.00094**	**.00147**	**.01089**	**.00167**
Stddev	.00005	.00069	.00001	.00004	.00008	.00208	.00065
%RSD	1.5023	35.427	14.249	3.8328	5.3197	19.068	38.955
#1	.00337	.00255	.00011	-.00091	.00146	.01319	.00218
#2	.00336	.00207	.00008	-.00098	.00140	.00916	.00191
#3	.00328	.00119	.00010	-.00093	.00155	.01030	.00094

Reviewed By:
On:
Inst Id :P4
LB :LB137573

Sample Name: S0 Acquired: 10/16/2025 11:08:53 Type: Cal
Method: 6010-200.7 NEW(v286) 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	5628.9	90514.	6842.4	4376.4	7151.3
Stddev	15.7	69.	49.8	18.9	17.8
%RSD	.27826	.07584	.72755	.43097	.24929
#1	5638.0	90435.	6786.8	4358.8	7161.6
#2	5610.8	90556.	6883.0	4396.3	7130.7
#3	5637.9	90551.	6857.3	4374.0	7161.6

Reviewed By:
On:
Inst Id :P4
LB :LB137573

Sample Name: S1 Acquired: 10/16/2025 11:13:36 Type: Cal
Method: 6010-200.7 NEW(v286) 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	**.00106**	**.00239**	**.00176**	**.00155**	**.00617**	**.00988**	**.27482**	**.06522**
Stddev	.00006	.00008	.00006	.00007	.00005	.00076	.00177	.00015
%RSD	5.2271	3.4973	3.6787	4.3320	.76144	7.7198	.64358	.22381
#1	.00111	.00237	.00169	.00156	.00617	.00934	.27537	.06507
#2	.00100	.00232	.00178	.00160	.00622	.01075	.27285	.06521
#3	.00108	.00248	.00182	.00147	.00613	.00955	.27625	.06537

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	**.01878**	**.13031**	**.00238**	**.03346**	**.01644**	**.00027**	**.01010**	**.02747**
Stddev	.00022	.00053	.00005	.00017	.00030	.00001	.00036	.00030
%RSD	1.1859	.40890	2.0848	.51476	1.8201	3.0911	3.5507	1.0976
#1	.01874	.13092	.00243	.03330	.01658	.00028	.01034	.02761
#2	.01902	.13010	.00238	.03343	.01664	.00026	.00969	.02713
#3	.01857	.12992	.00233	.03364	.01609	.00028	.01027	.02769

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	**.02500**	**.00136**	**.01563**	**.00551**	**.11597**	**.00721**	**.09169**	**.14725**
Stddev	.00004	.00003	.00021	.00008	.00033	.00017	.00123	.00002
%RSD	.15144	2.1504	1.3377	1.4719	.28654	2.3470	1.3376	.01612
#1	.02495	.00138	.01545	.00549	.11636	.00718	.09243	.14728
#2	.02501	.00137	.01586	.00560	.11582	.00739	.09028	.14724
#3	.02502	.00132	.01558	.00544	.11575	.00706	.09236	.14723

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	**.00977**	**.01454**	**.00108**	**-.00000**	**.00199**	**.01818**	**.17832**
Stddev	.00006	.00035	.00006	.00003	.00010	.00225	.00035
%RSD	.64454	2.3889	5.7355	8715.1	4.7866	12.385	.19632
#1	.00976	.01481	.00106	.00001	.00193	.01569	.17855
#2	.00971	.01465	.00103	-.00003	.00210	.02007	.17792
#3	.00984	.01415	.00115	.00002	.00194	.01879	.17849

Reviewed By:
On:
Inst Id :P4
LB :LB137573

Sample Name: S1 Acquired: 10/16/2025 11:13:36 Type: Cal
Method: 6010-200.7 NEW(v286) 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	5467.9	87862.	6623.7	4324.9	6840.2
Stddev	1.7	350.	49.9	23.7	4.8
%RSD	.03147	.39816	.75384	.54722	.06946
#1	5469.9	88265.	6611.7	4343.2	6842.1
#2	5466.7	87647.	6678.6	4333.4	6834.8
#3	5467.3	87673.	6580.9	4298.2	6843.7

Reviewed By:
On:
Inst Id :P4
LB :LB137573

Sample Name: S2 Acquired: 10/16/2025 11:17:57 Type: Cal
Method: 6010-200.7 NEW(v286) 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	.04293	.03153	.13310	.03830	.08105	.14951	3.1674	.42112	1.2086
Stddev	.00012	.00035	.00036	.00015	.00041	.00121	.0144	.00149	.0017
%RSD	.27104	1.1110	.27105	.38683	.50476	.80970	.45373	.35297	.14336
#1	.04280	.03174	.13269	.03820	.08066	.14999	3.1820	.41997	1.2071
#2	.04303	.03112	.13328	.03822	.08101	.14813	3.1533	.42060	1.2081
#3	.04296	.03172	.13334	.03847	.08148	.15040	3.1668	.42280	1.2105

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	.25156	.03455	.43073	.14389	.00203	.18228	.05072	.24589	.04162
Stddev	.00095	.00009	.00062	.00072	.00002	.00041	.00045	.00036	.00021
%RSD	.37778	.26274	.14392	.49817	.92802	.22402	.87744	.14614	.50286
#1	.25256	.03450	.43087	.14328	.00203	.18275	.05114	.24550	.04181
#2	.25066	.03466	.43006	.14468	.00205	.18201	.05025	.24620	.04140
#3	.25146	.03450	.43128	.14372	.00202	.18208	.05078	.24596	.04165

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	.03040	.05365	1.0540	.01459	.66962	.58184	.12691	.26010	.00217
Stddev	.00005	.00048	.0020	.00021	.00458	.00136	.00003	.00163	.00002
%RSD	.17639	.89506	.19210	1.4540	.68330	.23375	.02708	.62522	.92518
#1	.03047	.05420	1.0556	.01457	.66942	.58033	.12690	.26186	.00217
#2	.03038	.05341	1.0547	.01481	.66515	.58220	.12695	.25865	.00220
#3	.03037	.05334	1.0517	.01438	.67429	.58298	.12688	.25978	.00216

Elem	P_1774	S_1820	Li6707	Sr4077
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.03523	.02387	.29205	6.6160
Stddev	.00012	.00008	.00264	.0338
%RSD	.34670	.35430	.90516	.51028
#1	.03528	.02377	.28972	6.6451
#2	.03532	.02393	.29492	6.5790
#3	.03509	.02390	.29149	6.6238

Reviewed By:
On:
Inst Id :P4
LB :LB137573

Sample Name: S2 Acquired: 10/16/2025 11:17:57 Type: Cal
Method: 6010-200.7 NEW(v286) 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	5356.2	86453.	6497.8	4278.7	6550.2
Stddev	10.2	131.	36.7	4.1	6.1
%RSD	.19105	.15169	.56539	.09619	.09385
#1	5368.0	86324.	6490.5	4282.7	6557.2
#2	5350.8	86448.	6537.7	4279.1	6548.1
#3	5349.8	86586.	6465.3	4274.5	6545.5

Reviewed By:
On:
Inst Id :P4
LB :LB137573

Sample Name: S3 Acquired: 10/16/2025 11:22:03 Type: Cal
Method: 6010-200.7 NEW(v286) 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	**.12976**	**.09072**	**.40708**	**.11414**	**.23998**	**.44626**	**9.3290**	**1.2699**	**3.7641**
Stddev	.00046	.00076	.00090	.00027	.00024	.00207	.0791	.0061	.0011
%RSD	.35491	.83987	.22093	.23946	.09881	.46344	.84827	.48155	.02860
#1	.12935	.09096	.40686	.11382	.23984	.44439	9.4189	1.2761	3.7650
#2	.13026	.09134	.40807	.11431	.23984	.44590	9.2980	1.2696	3.7643
#3	.12966	.08987	.40632	.11429	.24025	.44848	9.2700	1.2639	3.7629

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	**.74261**	**.10400**	**1.3227**	**.42657**	**.00611**	**.53624**	**.15173**	**.75377**	**.12601**
Stddev	.00138	.00047	.0012	.00016	.00002	.00462	.00029	.00016	.00030
%RSD	.18646	.44832	.08660	.03764	.31965	.86112	.18931	.02123	.24068
#1	.74347	.10347	1.3232	.42639	.00611	.54122	.15168	.75360	.12572
#2	.74334	.10416	1.3236	.42670	.00609	.53210	.15147	.75392	.12600
#3	.74101	.10436	1.3214	.42661	.00613	.53540	.15204	.75377	.12633

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	**.08671**	**.16283**	**3.1110**	**.04516**	**1.9771**	**1.7337**	**.38128**	**.76866**	**.00638**
Stddev	.00035	.00044	.0096	.00008	.0045	.0035	.00050	.00187	.00006
%RSD	.40596	.27279	.30946	.18382	.22570	.20397	.13132	.24270	.94529
#1	.08709	.16292	3.1000	.04517	1.9818	1.7299	.38128	.77070	.00631
#2	.08661	.16323	3.1177	.04523	1.9767	1.7343	.38178	.76825	.00641
#3	.08641	.16235	3.1153	.04507	1.9729	1.7369	.38078	.76704	.00642

Elem	P_1774	S_1820	Li6707	Sr4077
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.11199**	**.07239**	**.85457**	**19.720**
Stddev	.00035	.00027	.00174	.157
%RSD	.31374	.37966	.20320	.79495
#1	.11238	.07256	.85460	19.901
#2	.11169	.07253	.85629	19.634
#3	.11191	.07207	.85281	19.625

Reviewed By:
On:
Inst Id :P4
LB :LB137573

Sample Name: S3 Acquired: 10/16/2025 11:22:03 Type: Cal
Method: 6010-200.7 NEW(v286) 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	5645.1	90929.	6927.5	4461.8	6650.6
Stddev	17.2	398.	28.1	14.7	9.2
%RSD	.30515	.43823	.40611	.32899	.13792
#1	5664.4	91389.	6898.8	4478.2	6661.1
#2	5639.5	90711.	6928.8	4449.9	6646.2
#3	5631.3	90688.	6955.0	4457.4	6644.5

Reviewed By:
On:
Inst Id :P4
LB :LB137573

Sample Name: S4 Acquired: 10/16/2025 11:25:59 Type: Cal
Method: 6010-200.7 NEW(v286) 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	**.27026**	**.16622**	**.86169**	**.23696**	**.49951**	**.97394**	**19.783**	**2.6765**	**8.0643**
Stddev	.00090	.00265	.00189	.00030	.00019	.00270	.219	.0163	.0085
%RSD	.33179	1.5917	.21923	.12736	.03901	.27712	1.1085	.60931	.10512
#1	.27025	.16919	.86056	.23684	.49938	.97605	19.961	2.6951	8.0630
#2	.26937	.16537	.86064	.23673	.49974	.97487	19.849	2.6694	8.0565
#3	.27117	.16410	.86387	.23730	.49942	.97090	19.538	2.6649	8.0733

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	**1.5875**	**.21814**	**2.8064**	**.87640**	**.01268**	**1.1367**	**.32893**	**1.5971**	**.26295**
Stddev	.0099	.00063	.0037	.00118	.00017	.0131	.00259	.0020	.00033
%RSD	.62197	.28915	.13238	.13408	1.3281	1.1519	.78674	.12399	.12390
#1	1.5965	.21793	2.8061	.87548	.01274	1.1496	.33119	1.5973	.26327
#2	1.5891	.21884	2.8027	.87599	.01281	1.1370	.32949	1.5950	.26262
#3	1.5770	.21763	2.8102	.87773	.01249	1.1234	.32611	1.5989	.26295

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	**.18957**	**.35162**	**6.4573**	**.09708**	**4.2023**	**3.6129**	**.79971**	**1.6520**	**.01384**
Stddev	.00181	.00193	.0181	.00077	.0191	.0051	.00206	.0135	.00008
%RSD	.95656	.54875	.28097	.79602	.45356	.14030	.25721	.81722	.59721
#1	.19040	.35332	6.4379	.09685	4.2242	3.6136	.80165	1.6632	.01378
#2	.19082	.35202	6.4601	.09794	4.1895	3.6075	.79755	1.6558	.01394
#3	.18749	.34953	6.4739	.09644	4.1932	3.6175	.79993	1.6370	.01381

Elem	P_1774	S_1820	Li6707	Sr4077
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.24135**	**.15225**	**1.7763**	**41.809**
Stddev	.00067	.00086	.0162	.880
%RSD	.27868	.56204	.91439	2.1054
#1	.24195	.15323	1.7877	42.344
#2	.24062	.15175	1.7836	42.291
#3	.24147	.15176	1.7577	40.793

Reviewed By:
On:
Inst Id :P4
LB :LB137573

Sample Name: S4 Acquired: 10/16/2025 11:25:59 Type: Cal
Method: 6010-200.7 NEW(v286) 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	5275.0	84847.	6375.3	4116.5	6052.7
Stddev	8.6	295.	34.8	7.9	5.5
%RSD	.16343	.34721	.54650	.19194	.09090
#1	5284.3	84954.	6339.3	4116.0	6059.0
#2	5267.3	84514.	6377.7	4108.9	6048.7
#3	5273.3	85074.	6408.9	4124.7	6050.4

Reviewed By:
On:
Inst Id :P4
LB :LB137573

Sample Name: S5 Acquired: 10/16/2025 11:30:02 Type: Cal
Method: 6010-200.7 NEW(v286) 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	.55233	.35454	1.7921	.48420	1.0233	1.9297	39.278	5.2294	16.627
Stddev	.00261	.01529	.0037	.00339	.0049	.0021	.130	.0104	.050
%RSD	.47301	4.3136	.20514	.69993	.47476	.11093	.33083	.19975	.30285
#1	.55340	.36191	1.7963	.48576	1.0263	1.9285	39.427	5.2211	16.685
#2	.54936	.33696	1.7897	.48031	1.0177	1.9322	39.189	5.2259	16.601
#3	.55424	.36475	1.7902	.48652	1.0260	1.9284	39.217	5.2411	16.594

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	3.1592	.43840	5.8227	1.7541	.02603	2.2328	.65621	3.3000	.53726
Stddev	.0044	.00152	.0162	.0043	.00004	.0027	.00211	.0095	.00051
%RSD	.14060	.34683	.27785	.24511	.15503	.12012	.32178	.28921	.09488
#1	3.1542	.43890	5.8411	1.7590	.02606	2.2354	.65503	3.3110	.53728
#2	3.1627	.43962	5.8106	1.7509	.02604	2.2300	.65495	3.2942	.53776
#3	3.1606	.43670	5.8165	1.7523	.02598	2.2329	.65865	3.2948	.53674

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	.38450	.70569	13.030	.20270	8.2392	7.2927	1.6504	3.2798	.02903
Stddev	.00290	.00022	.043	.00147	.0343	.0325	.0078	.0037	.00017
%RSD	.75495	.03141	.33330	.72397	.41650	.44516	.47292	.11214	.57311
#1	.38697	.70544	13.079	.20378	8.2246	7.3247	1.6549	3.2840	.02893
#2	.38522	.70576	13.015	.20328	8.2145	7.2598	1.6414	3.2781	.02922
#3	.38130	.70586	12.997	.20102	8.2784	7.2935	1.6549	3.2772	.02894

Elem	P_1774	S_1820	Li6707	Sr4077
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.50783	.32544	3.5582	82.055
Stddev	.00326	.00356	.0319	.888
%RSD	.64194	1.0944	.89535	1.0828
#1	.50939	.32697	3.5934	81.079
#2	.50408	.32137	3.5315	82.817
#3	.51002	.32799	3.5496	82.269

Reviewed By:
On:
Inst Id :P4
LB :LB137573

Sample Name: S5 Acquired: 10/16/2025 11:30:02 Type: Cal
Method: 6010-200.7 NEW(v286) 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	5136.5	82992.	6477.0	3960.7	5708.0
Stddev	21.6	368.	6.2	27.2	22.9
%RSD	.41956	.44392	.09602	.68784	.40160
#1	5113.2	82781.	6472.4	3943.8	5684.2
#2	5140.7	82777.	6484.0	3946.1	5709.7
#3	5155.7	83417.	6474.4	3992.1	5730.0

Reviewed By:
On:
Inst Id :P4
LB :LB137573

Sample Name: ICV01 Acquired: 10/16/2025 11:34:13 Type: Unk
Method: 6010-200.7 NEW(v286) 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	**3.920108**	**4.123394**	**3.801140**	**3.911653**	**3.972516**	**7.723861**
Stddev	.023551	.250637	.005954	.028554	.013376	.016281
%RSD	.6007629	6.078415	.1566302	.7299776	.3367207	.2107829
#1	3.945478	4.409692	3.807665	3.944024	3.987636	7.716709
#2	3.915904	4.016903	3.799752	3.900891	3.962224	7.712381
#3	3.898943	3.943587	3.796002	3.890043	3.967688	7.742493

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**7.876822**	**.1974643**	**1.931184**	**19.44049**	**.7973026**	**1.957769**
Stddev	.014787	.0006559	.005308	.04921	.0013348	.002146
%RSD	.1877269	.3321572	.2748453	.2531158	.1674152	.1096187
#1	7.859774	.1967105	1.937310	19.40963	.7974289	1.960007
#2	7.884520	.1979040	1.928307	19.49724	.7985698	1.957571
#3	7.886173	.1977786	1.927937	19.41460	.7959092	1.955729

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.007534**	**4.029031**	**1.972692**	**19.32897**	**1.959464**	**.9648745**
Stddev	.001714	.006435	.008472	.02109	.001950	.0008113
%RSD	.1701023	.1597067	.4294824	.1091011	.0995125	.0840881
#1	1.009487	4.036338	1.963150	19.30555	1.961701	.9639377
#2	1.006281	4.026545	1.979332	19.33493	1.958566	.9653383
#3	1.006833	4.024211	1.975594	19.34644	1.958125	.9653475

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**19.60901**	**1.946544**	**1.985574**	**19.85525**	**3.893845**	**3.989454**
Stddev	.02302	.004426	.008956	.01097	.018570	.015781
%RSD	.1174071	.2273632	.4510428	.0552290	.4769175	.3955726
#1	19.60869	1.946190	1.982300	19.86402	3.873710	4.007295
#2	19.58614	1.951136	1.995707	19.85876	3.910301	3.983748
#3	19.63218	1.942306	1.978716	19.84296	3.897524	3.977320

Reviewed By:
On:
Inst Id :P4
LB :LB137573

Sample Name: ICV01 Acquired: 10/16/2025 11:34:13 Type: Unk
Method: 6010-200.7 NEW(v286) 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	**3.963150**	**3.939480**	**3.945914**	F **.0068239**	F **.0276173**	**3.815322**
Stddev	.013419	.009811	.015580	.0006579	.0023101	.020717
%RSD	.3385989	.2490459	.3948500	9.641678	8.364486	.5429923
#1	3.976084	3.929614	3.931812	.0074696	.0251045	3.802793
#2	3.964074	3.939591	3.962640	.0061543	.0280990	3.839234
#3	3.949293	3.949235	3.943291	.0068479	.0296486	3.803938

Elem	Sr4077
Units	ppm
Avg	**3.970218**
Stddev	.049797
%RSD	1.254266
#1	3.931211
#2	4.026308
#3	3.953136

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5434.162**	**86665.91**	**6788.248**	**4244.963**	**6290.098**
Stddev	13.008	244.83	18.882	18.436	10.953
%RSD	.2393789	.2824958	.2781514	.4343009	.1741264
#1	5421.056	86557.15	6803.300	4229.517	6280.384
#2	5447.071	86494.31	6767.062	4239.999	6301.968
#3	5434.360	86946.28	6794.383	4265.373	6287.941

Reviewed By:
On:
Inst Id :P4
LB :LB137573

Sample Name: LLICV01 Acquired: 10/16/2025 11:58:33 Type: Unk
Method: 6010-200.7 NEW(v286) 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	**.0202199**	**.0477236**	**.0106478**	**.0213233**	**.0524547**	**.1094222**	**.0925508**
Stddev	.0008619	.0045026	.0020863	.0008350	.0013242	.0027203	.0016272
%RSD	4.262580	9.434690	19.59366	3.915943	2.524512	2.486089	1.758202
#1	.0197906	.0489494	.0088499	.0211725	.0509536	.1112820	.0934502
#2	.0212121	.0427351	.0101582	.0205740	.0529528	.1106845	.0906724
#3	.0196569	.0514864	.0129354	.0222234	.0534576	.1063000	.0935299

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0064035**	**.0057976**	**2.038413**	**.0102841**	**.0295732**	**.0221964**	**.1002219**
Stddev	.0000854	.0001001	.006610	.0000927	.0001628	.0000550	.0095100
%RSD	1.334312	1.727424	.3242560	.9012536	.5503552	.2478032	9.488961
#1	.0063339	.0057392	2.038660	.0101886	.0293986	.0222111	.0904081
#2	.0064989	.0059132	2.031683	.0102898	.0296003	.0221355	.1008619
#3	.0063777	.0057403	2.044895	.0103737	.0297207	.0222426	.1093958

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0211520**	**2.091956**	**.0398468**	**.0103966**	**1.769228**	**.0363809**	**.0427089**
Stddev	.0007133	.028232	.0001480	.0002834	.003769	.0026086	.0001771
%RSD	3.372363	1.349527	.3715533	2.725532	.2130097	7.170180	.4146456
#1	.0212105	2.079642	.0399001	.0107228	1.765026	.0371857	.0427236
#2	.0204113	2.071974	.0396794	.0102562	1.770350	.0384923	.0425249
#3	.0218343	2.124253	.0399608	.0102108	1.772309	.0334648	.0428782

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.820357**	**.1081496**	**.2029187**	**.0383530**	**.0367952**	**.3420308**	**.0195422**
Stddev	.003397	.0004825	.0009095	.0005833	.0006080	.0103063	.0010328
%RSD	.1866066	.4461120	.4482193	1.520864	1.652424	3.013255	5.285051
#1	1.820905	.1084596	.2037262	.0376969	.0369749	.3381427	.0185799
#2	1.816719	.1083956	.2019334	.0388128	.0372931	.3342341	.0206334
#3	1.823446	.1075938	.2030965	.0385493	.0361176	.3537155	.0194134

Reviewed By:
On:
Inst Id :P4
LB :LB137573

Sample Name: LLICV01 Acquired: 10/16/2025 11:58:33 Type: Unk
Method: 6010-200.7 NEW(v286) 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	.0234676	.0228724	.0208275
Stddev	.0032608	.0041701	.0002222
%RSD	13.89500	18.23200	1.066989
#1	.0271982	.0258686	.0206126
#2	.0211608	.0181098	.0210564
#3	.0220438	.0246387	.0208134

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5480.084	88894.19	6645.281	4311.442	6880.215
Stddev	6.480	126.56	19.868	23.490	7.713
%RSD	.1182439	.1423710	.2989799	.5448303	.1121002
#1	5486.930	88918.46	6667.230	4328.173	6886.517
#2	5479.276	88757.25	6640.089	4284.587	6871.614
#3	5474.046	89006.85	6628.525	4321.565	6882.512

Reviewed By:
On:
Inst Id :P4
LB :LB137573

Sample Name: ICB01 Acquired: 10/16/2025 12:02:52 Type: Unk
Method: 6010-200.7 NEW(v286) 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	**-.001728**	**-.000585**	**-.000963**	**.0015928**	**-.000668**	**.0087546**	**-.002418**
Stddev	.000573	.004614	.001688	.0009016	.001492	.0106175	.001966
%RSD	33.18784	788.7726	175.3575	56.60253	223.2734	121.2783	81.30431
#1	-.001695	-.001486	.000479	.0008754	.000077	.0152189	-.003110
#2	-.001172	-.004681	-.002820	.0026049	.000304	-.003499	-.000200
#3	-.002317	.004413	-.000547	.0012983	-.002387	.014544	-.003945

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000346**	**-.000051**	**.0228643**	**.0001467**	**-.000027**	**.0004219**	**.0043598**
Stddev	.0000320	.000011	.0077351	.0002584	.000008	.0003463	.0034707
%RSD	92.58295	20.46036	33.83055	176.0683	28.46803	82.08903	79.60722
#1	.0000596	-.000039	.0157168	.0002465	-.000033	.0000520	.0011219
#2	.0000456	-.000057	.0310767	.0003403	-.000029	.0004754	.0039335
#3	-.000001	-.000058	.0217993	-.000147	-.000018	.0007384	.0080240

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0003638**	**-.003890**	**-.000068**	**-.000023**	**-.058727**	**-.002311**	**.0004627**
Stddev	.0001250	.023115	.000444	.000117	.010187	.000647	.0000626
%RSD	34.35159	594.2250	649.3521	508.0953	17.34678	28.01238	13.52051
#1	.0005060	-.025875	-.000176	-.000040	-.058481	-.002241	.0004065
#2	.0002713	.020209	-.000448	.000102	-.048666	-.001701	.0005301
#3	.0003142	-.006003	.000419	-.000130	-.069036	-.002991	.0004514

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.077481**	**.0052208**	**.0001285**	**-.000503**	**-.002077**	**.0129219**	**.0012594**
Stddev	.046520	.0006364	.0003929	.000359	.001323	.0185699	.0008199
%RSD	60.04034	12.18936	305.8139	71.24768	63.66636	143.7093	65.09848
#1	-.105333	.0045077	.0005521	-.000768	-.003527	.0250624	.0020976
#2	-.103332	.0057309	-.000224	-.000647	-.001768	-.008455	.0012213
#3	-.023777	.0054239	.000057	-.000095	-.000937	.022158	.0004593

Reviewed By:
On:
Inst Id :P4
LB :LB137573

Sample Name: ICB01 Acquired: 10/16/2025 12:02:52 Type: Unk
Method: 6010-200.7 NEW(v286) 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	.0014568	-.003199	.0002074
Stddev	.0011382	.003235	.0003166
%RSD	78.12927	101.1160	152.6528
#1	.0001450	-.006852	-.000098
#2	.0021823	-.002053	.000185
#3	.0020432	-.000694	.000534

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5287.676	85750.75	6423.805	4153.165	6767.848
Stddev	5.483	425.17	40.901	4.714	14.272
%RSD	.1036985	.4958243	.6367134	.1135003	.2108784
#1	5281.409	86122.27	6441.012	4153.179	6752.049
#2	5291.589	85842.94	6453.292	4157.872	6771.686
#3	5290.030	85287.05	6377.112	4148.444	6779.808

Reviewed By:
On:
Inst Id :P4
LB :LB137573

Sample Name: CRI01 Acquired: 10/16/2025 12:09:06 Type: Unk
Method: 6010-200.7 NEW(v286) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CRI01 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0204049**	**.0463043**	**.0105232**	**.0214690**	**.0528399**	**.1156843**
Stddev	.0002537	.0032737	.0012042	.0016579	.0009547	.0073875
%RSD	1.243227	7.069886	11.44284	7.722064	1.806781	6.385952
#1	.0206510	.0500394	.0115711	.0233789	.0539290	.1236367
#2	.0201442	.0449399	.0107908	.0204015	.0521475	.1090351
#3	.0204195	.0439334	.0092078	.0206265	.0524433	.1143812

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0985652**	**.0065141**	**.0059692**	**2.082983**	**.0109130**	**.0305677**
Stddev	.0018252	.0000580	.0000055	.009949	.0001578	.0001342
%RSD	1.851732	.8900834	.0928499	.4776204	1.446385	.4389359
#1	.1000168	.0064578	.0059644	2.086159	.0107352	.0305340
#2	.0991625	.0065736	.0059680	2.071834	.0110366	.0304536
#3	.0965162	.0065108	.0059753	2.090956	.0109673	.0307155

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0230915**	**.1075754**	**.0203243**	**2.166330**	**.0409971**	**.0108130**
Stddev	.0001444	.0055965	.0005056	.039440	.0004271	.0002658
%RSD	.6255029	5.202410	2.487477	1.820608	1.041772	2.458093
#1	.0229539	.1015242	.0198683	2.203685	.0410699	.0111054
#2	.0230787	.1086369	.0208680	2.125091	.0405383	.0107475
#3	.0232419	.1125652	.0202366	2.170215	.0413831	.0105860

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.842460**	**.0414662**	**.0444450**	**1.919328**	**.1051878**	**.2099437**
Stddev	.028016	.0041377	.0002536	.016269	.0010952	.0001952
%RSD	1.520594	9.978389	.5705291	.8476322	1.041158	.0929964
#1	1.832792	.0394367	.0446843	1.928735	.1060510	.2100344
#2	1.820558	.0462268	.0444716	1.900542	.1055564	.2097196
#3	1.874030	.0387352	.0441792	1.928706	.1039558	.2100771

Reviewed By:
On:
Inst Id :P4
LB :LB137573

Sample Name: CRI01 Acquired: 10/16/2025 12:09:06 Type: Unk
Method: 6010-200.7 NEW(v286) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CRI01 Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0406182	.0367729	.3507345	.0204148	F .0260192	.0238769
Stddev	.0008571	.0017435	.0066502	.0013302	.0007025	.0046034
%RSD	2.110121	4.741167	1.896086	6.515780	2.699782	19.27988
#1	.0410432	.0372528	.3511369	.0211717	.0253689	.0290507
#2	.0396317	.0348397	.3438922	.0211938	.0267642	.0202340
#3	.0411797	.0382261	.3571744	.0188789	.0259245	.0223458

Elem	Sr4077
Units	ppm
Avg	.0209636
Stddev	.0000417
%RSD	.1990634
#1	.0210045
#2	.0209211
#3	.0209652

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5350.260	86167.48	6594.831	4123.951	6727.573
Stddev	2.279	264.97	10.522	9.613	8.389
%RSD	.0425873	.3075055	.1595481	.2331059	.1246900
#1	5348.967	86473.28	6606.127	4134.975	6720.490
#2	5348.921	86023.30	6585.309	4117.313	6725.393
#3	5352.891	86005.87	6593.055	4119.565	6736.837

Reviewed By:
On:
Inst Id :P4
LB :LB137573

Sample Name: ICSA01 Acquired: 10/16/2025 12:17:10 Type: Unk
Method: 6010-200.7 NEW(v286) 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	**.0049305**	**-.007340**	**.0035025**	**.0086782**	**-.004001**	**257.3381**	**.0005869**
Stddev	.0031403	.005422	.0018440	.0035031	.005273	.5955	.0020154
%RSD	63.69152	73.87512	52.64653	40.36715	131.7947	.2313927	343.3719
#1	.0076172	-.013599	.0018112	.0049938	-.000586	257.7782	.0009583
#2	.0014782	-.004343	.0032280	.0119664	-.010074	257.5755	-.001588
#3	.0056961	-.004077	.0054684	.0090742	-.001342	256.6605	.002391

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0018669**	**.0012014**	**244.3625**	**.0502489**	**.0019726**	**.0129396**	**104.4268**
Stddev	.0000991	.0000901	.9341	.0006802	.0001880	.0003058	1.0101
%RSD	5.310687	7.498111	.3822438	1.353575	9.532888	2.363193	.9672487
#1	.0019436	.0012961	244.8380	.0509523	.0018174	.0126333	105.3094
#2	.0019022	.0011914	244.9631	.0495946	.0021817	.0129405	104.6457
#3	.0017549	.0011168	243.2863	.0501998	.0019186	.0132449	103.3252

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0080477**	**257.4806**	**.0039346**	**-.007188**	**-.007639**	**.0045008**	**.0033959**
Stddev	.0008697	1.0852	.0010939	.000284	.011526	.0013142	.0002799
%RSD	10.80724	.4214556	27.80226	3.953149	150.8907	29.19939	8.242718
#1	.0089245	257.5971	.0032816	-.007425	.004541	.0036631	.0036373
#2	.0080336	258.5028	.0033247	-.006873	-.009082	.0038237	.0030891
#3	.0071852	256.3419	.0051975	-.007265	-.018376	.0060154	.0034612

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.077915**	**.0498219**	**-.000439**	**.0091115**	**-.005905**	**.0132329**	**.0061726**
Stddev	.019332	.0010845	.000323	.0007626	.002271	.0163970	.0011120
%RSD	24.81128	2.176723	73.41721	8.369648	38.45129	123.9108	18.01541
#1	-.084245	.0508147	-.000179	.0093726	-.007796	-.003766	.0050922
#2	-.093288	.0499866	-.000340	.0082526	-.006533	.028953	.0073137
#3	-.056212	.0486645	-.000800	.0097092	-.003387	.014512	.0061117

Reviewed By:
On:
Inst Id :P4
LB :LB137573

Sample Name: ICSA01 Acquired: 10/16/2025 12:17:10 Type: Unk
Method: 6010-200.7 NEW(v286) 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	.0033239	-.009561	.0029167
Stddev	.0026454	.000679	.0005510
%RSD	79.58749	7.104750	18.89009
#1	.0031452	-.008965	.0022993
#2	.0060540	-.009418	.0030923
#3	.0007723	-.010300	.0033584

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5049.649	79164.54	6537.024	3909.658	5458.431
Stddev	2.776	162.37	45.035	14.549	2.625
%RSD	.0549793	.2051048	.6889213	.3721358	.0480885
#1	5051.409	79182.07	6582.135	3904.813	5457.395
#2	5051.089	79317.43	6536.873	3926.012	5456.482
#3	5046.448	78994.12	6492.065	3898.150	5461.416

Reviewed By:
On:
Inst Id :P4
LB :LB137573

Sample Name: ICSAB01 Acquired: 10/16/2025 12:21:22 Type: Unk
Method: 6010-200.7 NEW(v286) 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	**.1078979**	**.1019066**	**.0497141**	**.0557266**	**.6039691**	**249.9730**
Stddev	.0034157	.0055236	.0018050	.0041843	.0037669	.8573
%RSD	3.165715	5.420229	3.630665	7.508562	.6236974	.3429700
#1	.1063667	.1062385	.0490916	.0510929	.6025892	249.3991
#2	.1118114	.1037949	.0517479	.0592287	.6082314	249.5614
#3	.1055157	.0956865	.0483027	.0568581	.6010866	250.9586

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5036496**	**.5232550**	**1.012502**	**239.3288**	**.5514976**	**.5122497**
Stddev	.0019650	.0034765	.000690	.7901	.0014562	.0002550
%RSD	.3901503	.6644005	.0681053	.3301127	.2640504	.0497779
#1	.5044200	.5203944	1.013183	238.9852	.5517061	.5123952
#2	.5014162	.5222462	1.011805	238.7686	.5528384	.5119552
#3	.5051127	.5271243	1.012519	240.2324	.5499484	.5123986

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5004750**	**101.6001**	**.5110798**	**250.1213**	**1.014624**	**.2030502**
Stddev	.0005883	.4358	.0022513	1.0860	.001007	.0008831
%RSD	.1175431	.4289477	.4405024	.4341920	.0992164	.4349064
#1	.4998845	102.0738	.5090738	249.3338	1.015365	.2040660
#2	.5004796	101.2161	.5106509	249.6698	1.013478	.2024651
#3	.5010610	101.5103	.5135147	251.3602	1.015029	.2026195

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0287656**	**.4865907**	**1.048604**	**-.111424**	**.9491717**	**.9386662**
Stddev	.0076467	.0037614	.002235	.017419	.0028342	.0014754
%RSD	26.58280	.7730098	.2131080	15.63325	.2986012	.1571784
#1	.0324680	.4846783	1.046026	-.128221	.9485529	.9403556
#2	.0199724	.4841697	1.049801	-.112608	.9466980	.9376311
#3	.0338565	.4909240	1.049985	-.093443	.9522642	.9380119

Reviewed By:
On:
Inst Id :P4
LB :LB137573

Sample Name: ICSAB01 Acquired: 10/16/2025 12:21:22 Type: Unk
Method: 6010-200.7 NEW(v286) 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	**.9768210**	**.9232444**	**.8965203**	F **.0084523**	F **.0054790**	**.9683564**
Stddev	.0046282	.0015316	.0316862	.0026878	.0028308	.0046911
%RSD	.4737976	.1658946	3.534353	31.79923	51.66693	.4844359
#1	.9819198	.9232775	.9313565	.0071040	.0081559	.9674177
#2	.9756580	.9216965	.8694149	.0115473	.0057649	.9642057
#3	.9728853	.9247592	.8887894	.0067055	.0025160	.9734458

Elem	Sr4077
Units	ppm
Avg	**1.046994**
Stddev	.005909
%RSD	.5643746
#1	1.048501
#2	1.040477
#3	1.052003

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4887.402**	**77503.29**	**6241.418**	**3912.126**	**5264.138**
Stddev	6.649	71.13	33.411	8.260	2.344
%RSD	.1360516	.0917795	.5353189	.2111419	.0445340
#1	4894.891	77434.35	6265.654	3914.958	5264.317
#2	4882.191	77499.09	6255.295	3902.823	5261.709
#3	4885.125	77576.42	6203.304	3918.598	5266.388

Reviewed By:
On:
Inst Id :P4
LB :LB137573

Sample Name: ICSA01DLX20 Acquired: 10/16/2025 12:25:22 Type: Unk
Method: 6010-200.7 NEW(v286) 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	**.0002410**	**-.003548**	**-.000266**	**-.001910**	**.0002112**	**12.30477**	**-.004804**
Stddev	.0018688	.000897	.000615	.002917	.0017704	.00674	.001201
%RSD	775.2911	25.27737	231.3071	152.6854	838.1763	.0547572	24.99906
#1	.0010332	-.002556	.000404	-.004176	-.001037	12.31061	-.004100
#2	-.001893	-.003789	-.000806	.001380	-.000567	12.30630	-.004122
#3	.001583	-.004300	-.000395	-.002935	.002237	12.29740	-.006191

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0001143**	**-.000011**	**12.11627**	**.0024503**	**.0001491**	**.0011394**	**4.980863**
Stddev	.0000366	.000065	.04679	.0002984	.0001586	.0001090	.044537
%RSD	32.05412	612.5645	.3861417	12.17822	106.4165	9.570720	.8941545
#1	.0001304	-.000019	12.15567	.0022269	.0002983	.0010162	5.025831
#2	.0001401	.000058	12.12857	.0027892	.0001664	.0012236	4.936771
#3	.0000723	-.000071	12.06456	.0023348	-.000018	.0011785	4.979987

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000192**	**12.51600**	**-.000120**	**-.000350**	**-.054575**	**-.002177**	**.0004146**
Stddev	.000709	.03050	.000439	.000608	.033059	.001438	.0000699
%RSD	368.7659	.2436774	365.7549	173.6165	60.57593	66.02916	16.85708
#1	-.000988	12.49162	-.000159	-.000927	-.061683	-.000528	.0003475
#2	.000039	12.55020	-.000539	-.000408	-.018540	-.003164	.0004094
#3	.000373	12.50619	.000337	.000285	-.083503	-.002841	.0004869

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.177310**	**.0022290**	**.0000604**	**.0127571**	**-.000531**	**-.004294**	**-.000307**
Stddev	.050587	.0005149	.0001222	.0001469	.001485	.003663	.000728
%RSD	28.53023	23.09937	202.4579	1.151727	279.4361	85.31487	236.8975
#1	-.151761	.0025708	-.000073	.0128111	.001149	-.001946	.000466
#2	-.144593	.0016368	.000086	.0128693	-.001078	-.002420	-.000980
#3	-.235576	.0024794	.000168	.0125908	-.001666	-.008514	-.000409

Reviewed By:
On:
Inst Id :P4
LB :LB137573

Sample Name: ICSA01DLX20 Acquired: 10/16/2025 12:25:22 Type: Unk
Method: 6010-200.7 NEW(v286) 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	.0000222	-.005617	.0002416
Stddev	.0018674	.001809	.0001662
%RSD	8417.563	32.20981	68.78465
#1	-.001472	-.003879	.0002411
#2	.002116	-.005483	.0004080
#3	-.000577	-.007490	.0000757

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5193.627	83927.69	6466.590	4096.989	6354.156
Stddev	12.239	199.61	18.862	16.989	18.157
%RSD	.2356530	.2378321	.2916804	.4146666	.2857561
#1	5198.552	83769.24	6481.674	4116.605	6364.055
#2	5202.637	84151.88	6445.442	4087.028	6365.212
#3	5179.693	83861.96	6472.654	4087.333	6333.200

Reviewed By:
On:
Inst Id :P4
LB :LB137573

Sample Name: ICSAB01DLX20 Acquired: 10/16/2025 12:29:39 Type: Unk
Method: 6010-200.7 NEW(v286) 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	**.0057166**	**.0027236**	**.0024178**	**.0025233**	**.0319670**	**13.17254**	**.0275214**
Stddev	.0013962	.0028657	.0004397	.0030430	.0010213	.04666	.0015429
%RSD	24.42406	105.2148	18.18727	120.5942	3.194883	.3542162	5.606049
#1	.0058596	.0035162	.0025942	.0028031	.0322382	13.22391	.0269852
#2	.0070358	-.000455	.0027420	-.000650	.0328252	13.13277	.0292607
#3	.0042544	.005110	.0019173	.005417	.0308374	13.16095	.0263181

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0272008**	**.0498942**	**12.84219**	**.0302862**	**.0253058**	**.0277887**	**5.238777**
Stddev	.0002051	.0001092	.05729	.0003648	.0002422	.0004357	.025628
%RSD	.7540134	.2187562	.4461420	1.204457	.9572662	1.568063	.4892036
#1	.0271231	.0499937	12.90416	.0305951	.0255853	.0275325	5.262696
#2	.0270460	.0499114	12.79114	.0298837	.0251567	.0275418	5.211727
#3	.0274335	.0497774	12.83127	.0303797	.0251754	.0282918	5.241909

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0269910**	**13.34180**	**.0506544**	**.0099727**	**-.064341**	**.0255261**	**.0556100**
Stddev	.0005283	.06287	.0003411	.0005594	.020542	.0024428	.0003256
%RSD	1.957345	.4712308	.6732814	5.608998	31.92718	9.569962	.5855188
#1	.0275213	13.39633	.0504737	.0096736	-.073308	.0283382	.0559841
#2	.0264647	13.27303	.0504418	.0106180	-.040840	.0243113	.0554552
#3	.0269870	13.35603	.0510478	.0096264	-.078876	.0239288	.0553907

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.138602**	**.0466656**	**.0485799**	**.0575420**	**.0461926**	**.0412743**	**.0010015**
Stddev	.034092	.0004062	.0001429	.0004747	.0019704	.0122182	.0010855
%RSD	24.59667	.8704492	.2941723	.8248736	4.265567	29.60241	108.3803
#1	-.174671	.0462716	.0487353	.0577650	.0482977	.0426603	.0019116
#2	-.106911	.0466422	.0485500	.0569969	.0458875	.0527404	.0012928
#3	-.134225	.0470829	.0484543	.0578641	.0443926	.0284222	-.000200

Reviewed By:
On:
Inst Id :P4
LB :LB137573

Sample Name: ICSAB01DLX20 Acquired: 10/16/2025 12:29:39 Type: Unk
Method: 6010-200.7 NEW(v286) 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	.0016640	.0399456	.0504551
Stddev	.0032050	.0015235	.0005612
%RSD	192.6070	3.813889	1.112310
#1	-.002029	.0408788	.0510431
#2	.003303	.0381875	.0499252
#3	.003718	.0407703	.0503968

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5196.394	83355.15	6583.018	3957.711	6370.083
Stddev	3.432	42.45	13.635	11.660	10.053
%RSD	.0660475	.0509308	.2071211	.2946120	.1578090
#1	5200.033	83319.08	6595.866	3945.201	6360.292
#2	5193.215	83344.45	6584.474	3959.653	6380.378
#3	5195.934	83401.94	6568.713	3968.277	6369.579

Reviewed By:
On:
Inst Id :P4
LB :LB137573

Sample Name: CCV01 Acquired: 10/16/2025 12:38:06 Type: Unk
Method: 6010-200.7 NEW(v286) 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	**5.076814**	**4.817924**	**4.974434**	**5.106463**	**5.033755**	**9.985948**	**9.893468**
Stddev	.005853	.057360	.010225	.002022	.001157	.046914	.080890
%RSD	.1152837	1.190548	.2055488	.0395926	.0229846	.4697966	.8176064
#1	5.082448	4.871267	4.981082	5.106726	5.033845	10.03690	9.964798
#2	5.070765	4.825254	4.962660	5.108340	5.032555	9.97641	9.910026
#3	5.077231	4.757252	4.979560	5.104323	5.034864	9.94454	9.805581

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2515939**	**2.506150**	**25.01559**	**1.008018**	**2.497884**	**1.268709**	**5.003192**
Stddev	.0011707	.003518	.20514	.001441	.003205	.001721	.033913
%RSD	.4653078	.1403738	.8200397	.1429709	.1283033	.1356188	.6778290
#1	.2529384	2.509983	25.13410	1.006870	2.500965	1.269919	4.990395
#2	.2510427	2.503069	25.13395	1.009635	2.494569	1.266739	5.041641
#3	.2508005	2.505398	24.77872	1.007549	2.498119	1.269468	4.977539

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.492352**	**24.70295**	**2.499643**	**1.248707**	**23.79962**	**2.495923**	**2.530454**
Stddev	.018615	.08073	.002845	.001859	.12842	.010778	.008521
%RSD	.7468672	.3268037	.1138169	.1488516	.5395943	.4318110	.3367343
#1	2.509365	24.78035	2.501567	1.250346	23.82906	2.508328	2.520983
#2	2.495221	24.70924	2.496375	1.249087	23.91077	2.490590	2.532883
#3	2.472469	24.61926	2.500987	1.246688	23.65904	2.488852	2.537498

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**24.43331**	**5.020506**	**5.095553**	**5.064200**	**4.971605**	**4.939872**	**5.051394**
Stddev	.10005	.020103	.005630	.010088	.035536	.008497	.017574
%RSD	.4094690	.4004147	.1104974	.1992008	.7147741	.1720129	.3479022
#1	24.45517	5.043658	5.102035	5.075232	4.997734	4.933174	5.071450
#2	24.52061	5.007479	5.092747	5.061921	4.985941	4.937011	5.038687
#3	24.32414	5.010380	5.091877	5.055446	4.931141	4.949430	5.044047

Reviewed By:
On:
Inst Id :P4
LB :LB137573

Sample Name: CCV01 Acquired: 10/16/2025 12:38:06 Type: Unk
Method: 6010-200.7 NEW(v286) 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	**5.092549**	**4.856657**	**5.080448**
Stddev	.019526	.030038	.041775
%RSD	.3834192	.6184863	.8222652
#1	5.114822	4.885908	5.128451
#2	5.084443	4.858174	5.052339
#3	5.078381	4.825890	5.060552

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5181.774**	**83318.45**	**6408.190**	**4047.550**	**5941.246**
Stddev	3.090	67.05	30.552	8.373	6.325
%RSD	.0596329	.0804737	.4767586	.2068545	.1064533
#1	5179.685	83247.48	6373.279	4054.309	5934.668
#2	5185.323	83327.13	6421.251	4038.184	5947.282
#3	5180.312	83380.74	6430.040	4050.157	5941.787

Reviewed By:
On:
Inst Id :P4
LB :LB137573

Sample Name: CCB01 Acquired: 10/16/2025 12:42:08 Type: Unk
Method: 6010-200.7 NEW(v286) 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	-.002090	-.006450	-.000720	-.000131	-.000217	.0122093	-.005041
Stddev	.001371	.001030	.000768	.000823	.001848	.0029579	.001328
%RSD	65.58007	15.97300	106.6584	630.4528	852.2767	24.22653	26.33397
#1	-.003614	-.006645	-.000863	-.000338	-.001703	.0087940	-.003511
#2	-.001699	-.005336	.000109	-.000829	-.000801	.0139510	-.005731
#3	-.000957	-.007368	-.001407	.000776	.001853	.0138829	-.005882

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000168	.0000440	.0051540	.0001562	-.000007	.0000005	.0006509
Stddev	.0000739	.0000278	.0151704	.0000821	.000125	.0002063	.0029893
%RSD	438.8892	63.36557	294.3423	52.56473	1769.975	43744.36	459.2401
#1	.0000904	.0000144	.0043346	.0002081	.000041	-.000236	.0036333
#2	-.000057	.0000477	.0207175	.0001990	-.000148	.000147	.0006647
#3	.000017	.0000698	-.009590	.0000616	.000087	.000090	-.002345

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000127	-.037270	-.000161	.0001103	-.053479	-.002670	.0002977
Stddev	.000392	.026748	.000371	.0002660	.003136	.000486	.0000649
%RSD	307.9829	71.76990	230.8488	241.1920	5.864379	18.20510	21.79976
#1	-.000462	-.054113	-.000152	.0004126	-.052935	-.002870	.0002627
#2	-.000224	-.006427	.000206	.0000060	-.056852	-.003024	.0002577
#3	.000304	-.051269	-.000536	-.000088	-.050650	-.002116	.0003725

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.125859	.0114137	.0000383	.0005546	-.000790	-.000260	.0007989
Stddev	.036449	.0009733	.0001162	.0004380	.000752	.006433	.0017595
%RSD	28.96011	8.527493	303.3156	78.96690	95.12587	2478.089	220.2484
#1	-.106864	.0110029	.0000903	.0003863	.000041	-.000059	.0018841
#2	-.102830	.0125250	.0001194	.0002258	-.001422	.006071	-.001231
#3	-.167882	.0107131	-.000095	.0010518	-.000989	-.006790	.001744

Reviewed By:
On:
Inst Id :P4
LB :LB137573

Sample Name: CCB01 Acquired: 10/16/2025 12:42:08 Type: Unk
Method: 6010-200.7 NEW(v286) 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	.0052253	-.003110	.0000634
Stddev	.0009037	.000635	.0001486
%RSD	17.29463	20.41952	234.2843
#1	.0044988	-.003749	-.000091
#2	.0062372	-.002479	.000205
#3	.0049399	-.003101	.000076

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5346.361	86973.88	6530.976	4251.982	6842.684
Stddev	21.027	360.83	42.874	17.510	30.455
%RSD	.3933010	.4148770	.6564642	.4118096	.4450710
#1	5356.923	87367.77	6550.616	4262.085	6858.617
#2	5360.013	86894.58	6560.512	4231.763	6861.867
#3	5322.146	86659.29	6481.801	4262.097	6807.568

Reviewed By:
On:
Inst Id :P4
LB :LB137573

Sample Name: LR-2 Acquired: 10/16/2025 12:51:08 Type: Unk
Method: 6010-200.7 NEW(v286) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1059520	-.251395	.0967177	.0758275	-.159824	1881.951	.0196505
Stddev	.0015462	.005712	.0015636	.0160689	.007394	4.362	.0018867
%RSD	1.459334	2.271989	1.616670	21.19140	4.626445	.2317846	9.601273
#1	.1066213	-.245223	.0953392	.0701501	-.161116	1886.030	.0175412
#2	.1070509	-.252466	.0984167	.0633680	-.151869	1877.353	.0211771
#3	.1041840	-.256495	.0963971	.0939644	-.166488	1882.471	.0202333

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0441325	.0457568	9.053432	-.251735	.0748725	.3511463	2639.994
Stddev	.0001268	.0022108	.124701	.002082	.0006134	.0057328	12.164
%RSD	.2873870	4.831565	1.377394	.8270993	.8193245	1.632596	.4607481
#1	.0440406	.0437565	9.186777	-.253164	.0743450	.3455851	2648.766
#2	.0442772	.0453834	8.939698	-.252694	.0747268	.3508172	2645.107
#3	.0440796	.0481304	9.033821	-.249346	.0755457	.3570366	2626.108

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.216670	1.062641	.0545954	^ *****	3.369012	.0525598	.0673509
Stddev	.001979	.034736	.0007584	-----	.034442	.0016808	.0013615
%RSD	.9132377	3.268877	1.389131	-----	1.022320	3.197869	2.021537
#1	-.215668	1.099116	.0539559	^ -----	3.403343	.0506217	.0687101
#2	-.218949	1.029954	.0543969	^ -----	3.369235	.0536177	.0673554
#3	-.215393	1.058852	.0554333	^ -----	3.334460	.0534400	.0659871

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1859.564	^ *****	-.018046	.0192113	.0027387	.5008390	.0928389
Stddev	12.343	-----	.000772	.0009242	.0022833	.0053638	.0076053
%RSD	.6637563	-----	4.279068	4.810832	83.37065	1.070957	8.191923
#1	1869.052	^ -----	-.018632	.0183299	.0023760	.4955596	.1015428
#2	1864.030	^ -----	-.017171	.0201731	.0051817	.5006740	.0874759
#3	1845.609	^ -----	-.018335	.0191311	.0006586	.5062834	.0894981

Reviewed By:
On:
Inst Id :P4
LB :LB137573

Sample Name: LR-2 Acquired: 10/16/2025 12:51:08 Type: Unk
Method: 6010-200.7 NEW(v286) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	**-.372407**	**.2911452**	**-2.53104**
Stddev	.008919	.0033970	.01172
%RSD	2.394897	1.166782	.4630400
#1	-.382702	.2941094	-2.53944
#2	-.367497	.2918880	-2.53602
#3	-.367023	.2874383	-2.51765

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4576.527**	**69363.07**	**6291.493**	**3417.010**	**3993.774**
Stddev	4.073	148.72	11.575	20.824	4.871
%RSD	.0889901	.2144133	.1839715	.6094281	.1219552
#1	4579.335	69534.05	6285.623	3407.146	3995.981
#2	4578.390	69291.41	6284.029	3402.950	3997.151
#3	4571.856	69263.74	6304.826	3440.933	3988.191

Reviewed By:
On:
Inst Id :P4
LB :LB137573

Sample Name: LR-3 Acquired: 10/16/2025 12:55:35 Type: Unk
Method: 6010-200.7 NEW(v286) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1022751**	**.0424664**	**242.7408**	**.0031418**	**.1496115**	**.1208653**	**-.003094**
Stddev	.0004776	.0029548	3.4605	.0029608	.0128002	.0291465	.000793
%RSD	.4669895	6.957913	1.425591	94.23792	8.555648	24.11489	25.62095
#1	.1026431	.0458574	246.4979	.0024477	.1515026	.1002783	-.002260
#2	.1024468	.0410973	242.0405	.0063880	.1613611	.1542163	-.003837
#3	.1017353	.0404446	239.6841	.0005897	.1359710	.1081011	-.003186

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.005668**	**-.001200**	**.2359109**	**26.58921**	**.0065510**	**53.29858**	**.1672929**
Stddev	.000025	.000048	.0056246	.22248	.0003342	1.15929	.0498151
%RSD	.4358976	4.004258	2.384189	.8367458	5.101528	2.175080	29.77715
#1	-.005657	-.001251	.2314154	26.83961	.0066429	54.03088	.1402779
#2	-.005696	-.001194	.2422180	26.51376	.0068296	53.90286	.2247797
#3	-.005650	-.001156	.2340992	26.41427	.0061805	51.96199	.1368210

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**50.39339**	**-.201055**	**25.58783**	**.0040874**	**.3769061**	**-.024701**	**30.44365**
Stddev	.18847	.034539	.57276	.0003212	.0265157	.003673	.36122
%RSD	.3739926	17.17876	2.238417	7.859254	7.035099	14.87136	1.186522
#1	50.46683	-.208217	25.95238	.0037508	.3957807	-.021301	30.67539
#2	50.17926	-.163497	25.88345	.0041207	.3883469	-.024204	30.02745
#3	50.53408	-.231451	24.92766	.0043907	.3465907	-.028597	30.62812

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.7879880**	**.0027166**	**-.015518**	**-.008142**	**-.047047**	**-.126061**	**.1818020**
Stddev	.0429659	.0005142	.000441	.000414	.002922	.004449	.0016378
%RSD	5.452609	18.92763	2.839053	5.082072	6.210539	3.529329	.9008990
#1	.8102398	.0028232	-.015719	-.007708	-.050090	-.124452	.1836810
#2	.8152641	.0031691	-.015823	-.008532	-.046786	-.122641	.1806761
#3	.7384601	.0021574	-.015013	-.008185	-.044264	-.131091	.1810490

Reviewed By:
On:
Inst Id :P4
LB :LB137573

Sample Name: LR-3 Acquired: 10/16/2025 12:55:35 Type: Unk
Method: 6010-200.7 NEW(v286) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0802162	.0126536	.0005426
Stddev	.0083176	.0012470	.0000723
%RSD	10.36899	9.855119	13.32836
#1	.0830406	.0138140	.0005880
#2	.0867539	.0128116	.0004592
#3	.0708542	.0113350	.0005806

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5125.649	88779.60	6857.474	4028.041	6821.964
Stddev	104.165	599.76	19.374	35.404	145.322
%RSD	2.032233	.6755630	.2825292	.8789405	2.130210
#1	5039.057	88114.20	6847.424	3989.200	6701.082
#2	5096.649	89278.57	6879.809	4058.505	6781.612
#3	5241.241	88946.02	6845.190	4036.420	6983.198

Reviewed By:
On:
Inst Id :P4
LB :LB137573

Sample Name: LR-1 Acquired: 10/16/2025 13:00:29 Type: Unk
Method: 6010-200.7 NEW(v286) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0018783**	**.0034209**	**.0210569**	**-.015531**	**.0248407**	**.4517011**	**.0159701**
Stddev	.0014317	.0046348	.0008510	.007257	.0032763	.0232828	.0007521
%RSD	76.22338	135.4849	4.041564	46.72239	13.18923	5.154473	4.709236
#1	.0019869	.0037522	.0216563	-.016826	.0225484	.4557056	.0160545
#2	.0003953	.0078811	.0200828	-.007714	.0285932	.4727220	.0166763
#3	.0032525	-.001371	.0214317	-.022053	.0233805	.4266758	.0151793

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0009324**	**.0010419**	**2284.954**	**.0363546**	**.0070252**	**.0120423**	**.7638208**
Stddev	.0000381	.0000858	31.846	.0001694	.0001406	.0044157	.0122777
%RSD	4.085510	8.231563	1.393711	.4659026	2.000766	36.66815	1.607409
#1	.0008888	.0010062	2314.747	.0365310	.0071672	.0171386	.7523720
#2	.0009492	.0011398	2288.725	.0363394	.0068861	.0096322	.7767865
#3	.0009593	.0009798	2251.391	.0361933	.0070222	.0093562	.7623039

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0276143**	**2107.443**	**.0277067**	**.0018849**	**2379.086**	**.0124515**	**.0809793**
Stddev	.0010885	5.529	.0010797	.0001963	27.644	.0034919	.0006192
%RSD	3.941930	.2623714	3.896790	10.41270	1.161972	28.04408	.7646487
#1	.0274929	2113.815	.0289518	.0021105	2410.995	.0092288	.0805536
#2	.0265915	2104.612	.0271390	.0017907	2363.908	.0161614	.0806945
#3	.0287584	2103.902	.0270293	.0017534	2362.356	.0119642	.0816896

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**6.138673**	**.0101176**	**.0086983**	**-.009414**	**-.101505**	**-.010146**	**.0144160**
Stddev	.745774	.0014939	.0002125	.001100	.001234	.017683	.0032211
%RSD	12.14878	14.76552	2.443479	11.68039	1.215332	174.2984	22.34355
#1	5.357585	.0118195	.0088069	-.008190	-.102859	.009410	.0125655
#2	6.215202	.0090229	.0088345	-.010318	-.100446	-.014834	.0125472
#3	6.843231	.0095104	.0084534	-.009736	-.101208	-.025012	.0181354

Reviewed By:
On:
Inst Id :P4
LB :LB137573

Sample Name: LR-1 Acquired: 10/16/2025 13:00:29 Type: Unk
Method: 6010-200.7 NEW(v286) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.2593020	-.331364	.0572828
Stddev	.0070699	.008938	.0002903
%RSD	2.726523	2.697216	.5068628
#1	.2542658	-.338957	.0576093
#2	.2673844	-.333620	.0570537
#3	.2562558	-.321514	.0571853

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3716.484	61289.74	5940.166	2946.993	3880.055
Stddev	22.242	189.78	22.431	20.107	22.658
%RSD	.5984563	.3096397	.3776215	.6823032	.5839704
#1	3704.763	61319.39	5917.081	2959.827	3867.474
#2	3702.554	61462.96	5941.535	2957.332	3866.479
#3	3742.134	61086.89	5961.881	2923.819	3906.212

Reviewed By:
On:
Inst Id :P4
LB :LB137573

Sample Name: Q2893-01 Acquired: 10/16/2025 13:04:57 Type: Unk
Method: 6010-200.7 NEW(v286) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0035994**	**.0040148**	**.0030593**	**.0024656**	**.0105353**	**.0291650**	**.0159081**
Stddev	.0001673	.0029034	.0008681	.0012727	.0011088	.0001464	.0012890
%RSD	4.647974	72.31643	28.37505	51.61921	10.52438	.5020655	8.102933
#1	.0035831	.0021095	.0026460	.0032113	.0098807	.0291788	.0169008
#2	.0034408	.0025785	.0024751	.0031896	.0118155	.0290121	.0144513
#3	.0037742	.0073564	.0040568	.0009961	.0099098	.0293040	.0163723

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0014950**	**.0013213**	**.5039926**	**.0025076**	**.0067323**	**.0052620**	**.0231284**
Stddev	.0000301	.0000975	.0075997	.0000593	.0000857	.0003387	.0020679
%RSD	2.015049	7.382109	1.507897	2.366829	1.272475	6.437440	8.940945
#1	.0014918	.0012441	.4966921	.0025600	.0067331	.0049946	.0251399
#2	.0015266	.0012888	.5034258	.0024431	.0066462	.0056429	.0232368
#3	.0014666	.0014309	.5118598	.0025197	.0068175	.0051486	.0210084

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0053739**	**.5056864**	**.0089326**	**.0023340**	**1.645814**	**.0097013**	**.0099705**
Stddev	.0001262	.0262167	.0002811	.0003255	.059198	.0005535	.0001286
%RSD	2.348263	5.184373	3.146442	13.94813	3.596861	5.705304	1.289984
#1	.0052590	.5314854	.0086322	.0020755	1.699282	.0103394	.0098496
#2	.0053537	.4790711	.0089765	.0026996	1.655961	.0094134	.0101056
#3	.0055090	.5065027	.0091891	.0022268	1.582199	.0093511	.0099562

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.265644**	**.0216636**	**.0469079**	**.0077967**	**.0089482**	**.0891419**	**.0049104**
Stddev	.047359	.0003868	.0000791	.0002744	.0014994	.0037951	.0012194
%RSD	3.741916	1.785688	.1686989	3.519155	16.75587	4.257348	24.83234
#1	1.310459	.0218423	.0468298	.0076597	.0091443	.0884978	.0061537
#2	1.270377	.0212197	.0469880	.0081127	.0073604	.0932178	.0037164
#3	1.216096	.0219288	.0469058	.0076179	.0103398	.0857101	.0048611

Reviewed By:
On:
Inst Id :P4
LB :LB137573

Sample Name: Q2893-01 Acquired: 10/16/2025 13:04:57 Type: Unk
Method: 6010-200.7 NEW(v286) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0055103	.0428836	.0051197
Stddev	.0018330	.0022646	.0001313
%RSD	33.26404	5.280712	2.564802
#1	.0048112	.0443148	.0052701
#2	.0075900	.0402728	.0050610
#3	.0041298	.0440634	.0050279

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5639.122	91754.57	6813.230	4505.873	7233.798
Stddev	10.327	148.42	90.108	11.900	12.838
%RSD	.1831289	.1617623	1.322543	.2640965	.1774750
#1	5651.004	91609.97	6752.467	4518.216	7246.770
#2	5634.057	91747.18	6916.757	4504.930	7233.525
#3	5632.306	91906.54	6770.465	4494.472	7221.098

Reviewed By:
On:
Inst Id :P4
LB :LB137573

Sample Name: Q2893-16 Acquired: 10/16/2025 13:13:28 Type: Unk
Method: 6010-200.7 NEW(v286) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0185880**	**.0286760**	**.0103696**	**.0189815**	**.0447686**	**.1075083**	**.0832525**
Stddev	.0007690	.0025129	.0005039	.0011220	.0003686	.0149456	.0014085
%RSD	4.136985	8.763237	4.859010	5.911199	.8232855	13.90183	1.691905
#1	.0194063	.0261222	.0097916	.0186689	.0448392	.0913254	.0846971
#2	.0184774	.0287600	.0107164	.0180489	.0450968	.1207917	.0818830
#3	.0178803	.0311459	.0106007	.0202267	.0443699	.1104078	.0831775

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0058874**	**.0052060**	**1.851560**	**.0096137**	**.0267369**	**.0202722**	**.0961306**
Stddev	.0000263	.0000679	.015619	.0001660	.0000308	.0001375	.0042000
%RSD	.4457931	1.304601	.8435542	1.726402	.1152709	.6782574	4.369008
#1	.0058571	.0052555	1.852620	.0095879	.0267450	.0202899	.1004122
#2	.0059026	.0052338	1.835438	.0097911	.0267628	.0201268	.0920173
#3	.0059025	.0051285	1.866622	.0094622	.0267028	.0204001	.0959624

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0183348**	**1.923578**	**.0359056**	**.0092025**	**1.884374**	**.0347304**	**.0388493**
Stddev	.0006389	.039355	.0002352	.0004253	.007085	.0031933	.0001618
%RSD	3.484834	2.045915	.6551707	4.622042	.3760134	9.194476	.4164863
#1	.0189132	1.947519	.0356469	.0096644	1.892538	.0363211	.0389574
#2	.0176489	1.878157	.0359633	.0091162	1.879829	.0310542	.0389273
#3	.0184424	1.945057	.0361067	.0088269	1.880754	.0368160	.0386633

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.851086**	**.0893890**	**.1853533**	**.0327064**	**.0325720**	**.3150977**	**.0187042**
Stddev	.031459	.0002850	.0010618	.0002118	.0010814	.0051356	.0003708
%RSD	1.699482	.3188261	.5728607	.6474756	3.320146	1.629839	1.982677
#1	1.873424	.0892503	.1843834	.0325333	.0317537	.3094475	.0182847
#2	1.815110	.0891999	.1851887	.0326434	.0337980	.3194817	.0188395
#3	1.864725	.0897168	.1864878	.0329425	.0321642	.3163641	.0189884

Reviewed By:
On:
Inst Id :P4
LB :LB137573

Sample Name: Q2893-16 Acquired: 10/16/2025 13:13:28 Type: Unk
Method: 6010-200.7 NEW(v286) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0211480	.0203630	.0186118
Stddev	.0012923	.0004873	.0001197
%RSD	6.110959	2.393017	.6430971
#1	.0196759	.0205825	.0185004
#2	.0220957	.0207020	.0185966
#3	.0216724	.0198046	.0187383

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5746.425	92587.90	7056.206	4375.580	7310.338
Stddev	2.332	322.71	21.999	27.424	5.746
%RSD	.0405830	.3485437	.3117697	.6267493	.0786052
#1	5744.379	92220.15	7074.338	4343.944	7304.630
#2	5748.964	92823.82	7062.546	4392.589	7316.122
#3	5745.931	92719.75	7031.733	4390.208	7310.264

Reviewed By:
On:
Inst Id :P4
LB :LB137573

Sample Name: Q2893-07 Acquired: 10/16/2025 13:17:44 Type: Unk
Method: 6010-200.7 NEW(v286) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0029869**	**.0057164**	**.0021060**	**.0046131**	**.0109499**	**.0278561**	**.0184185**
Stddev	.0016568	.0018210	.0012193	.0035109	.0007285	.0082660	.0006988
%RSD	55.46790	31.85602	57.89690	76.10722	6.653261	29.67382	3.793836
#1	.0048659	.0061471	.0026523	.0085232	.0103363	.0373419	.0191538
#2	.0023590	.0037187	.0007091	.0017308	.0117550	.0240298	.0183386
#3	.0017359	.0072835	.0029566	.0035852	.0107583	.0221965	.0177631

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0014895**	**.0012796**	**.4709008**	**.0026458**	**.0065147**	**.0052568**	**.0227797**
Stddev	.0000116	.0000340	.0116812	.0001691	.0000518	.0001818	.0024975
%RSD	.7787319	2.660001	2.480604	6.392993	.7955374	3.459131	10.96365
#1	.0014976	.0013146	.4760553	.0027795	.0065549	.0050834	.0254476
#2	.0014948	.0012466	.4575290	.0027022	.0065330	.0052409	.0223939
#3	.0014762	.0012775	.4791182	.0024557	.0064562	.0054461	.0204976

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0046739**	**.4774379**	**.0089905**	**.0024104**	**.5480966**	**.0081142**	**.0100068**
Stddev	.0003293	.0293283	.0002203	.0002252	.0129262	.0018766	.0001716
%RSD	7.045859	6.142849	2.450580	9.342520	2.358379	23.12705	1.715081
#1	.0044601	.4648870	.0090557	.0025982	.5541923	.0059761	.0101927
#2	.0050531	.5109531	.0087449	.0024723	.5568478	.0094881	.0099732
#3	.0045085	.4564736	.0091708	.0021607	.5332496	.0088784	.0098544

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4774253**	**.0206967**	**.0459666**	**.0069716**	**.0085490**	**.0784355**	**.0052220**
Stddev	.0352788	.0003826	.0001814	.0004648	.0012600	.0123807	.0004184
%RSD	7.389381	1.848429	.3945810	6.666613	14.73814	15.78452	8.012272
#1	.4665426	.0202558	.0461661	.0064409	.0070945	.0880335	.0047871
#2	.5168632	.0209411	.0459222	.0073062	.0092474	.0828120	.0056217
#3	.4488701	.0208931	.0458116	.0071676	.0093052	.0644610	.0052572

Reviewed By:
On:
Inst Id :P4
LB :LB137573

Sample Name: Q2893-07 Acquired: 10/16/2025 13:17:44 Type: Unk
Method: 6010-200.7 NEW(v286) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0075283	.0036118	.0046995
Stddev	.0020785	.0017447	.0000842
%RSD	27.60871	48.30555	1.792297
#1	.0064990	.0032963	.0047523
#2	.0061654	.0020464	.0046023
#3	.0099206	.0054927	.0047438

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5770.558	93683.16	7117.773	4468.877	7427.156
Stddev	2.922	143.67	62.005	2.961	4.785
%RSD	.0506449	.1533554	.8711345	.0662499	.0644313
#1	5767.935	93827.57	7165.579	4470.108	7421.636
#2	5770.030	93681.67	7140.028	4471.024	7430.131
#3	5773.709	93540.24	7047.711	4465.499	7429.702

Reviewed By:
On:
Inst Id :P4
LB :LB137573

Sample Name: Q2893-08 Acquired: 10/16/2025 13:22:02 Type: Unk
Method: 6010-200.7 NEW(v286) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0189925**	**.0350195**	**.0096880**	**.0178609**	**.0466821**	**.1006066**	**.0895949**
Stddev	.0018382	.0036032	.0010639	.0023433	.0008738	.0127490	.0007172
%RSD	9.678335	10.28917	10.98165	13.11992	1.871746	12.67213	.8004448
#1	.0190839	.0308767	.0084868	.0205016	.0459083	.0996942	.0891028
#2	.0171104	.0374243	.0100657	.0160295	.0465083	.0883382	.0904178
#3	.0207833	.0367574	.0105115	.0170516	.0476297	.1137872	.0892642

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0060433**	**.0053331**	**1.919229**	**.0095854**	**.0273743**	**.0206507**	**.0979263**
Stddev	.0000920	.0000695	.015834	.0001198	.0001568	.0003370	.0045931
%RSD	1.522215	1.303876	.8250256	1.249574	.5729854	1.631721	4.690318
#1	.0061422	.0052582	1.918316	.0096483	.0275512	.0204931	.0942168
#2	.0060274	.0053956	1.935499	.0096606	.0273196	.0210376	.1030637
#3	.0059603	.0053454	1.903870	.0094473	.0272522	.0204215	.0964982

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0201032**	**1.992512**	**.0367292**	**.0096996**	**1.924055**	**.0350399**	**.0396821**
Stddev	.0005497	.033565	.0000822	.0000205	.017125	.0032669	.0001129
%RSD	2.734344	1.684532	.2239194	.2112830	.8900652	9.323279	.2845599
#1	.0206852	1.953760	.0366645	.0096761	1.943511	.0375270	.0395561
#2	.0195928	2.012397	.0368217	.0097090	1.917386	.0313401	.0397740
#3	.0200315	2.011380	.0367013	.0097138	1.911267	.0362525	.0397163

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.766850**	**.0944887**	**.1889810**	**.0348262**	**.0361296**	**.3235841**	**.0193891**
Stddev	.010128	.0016593	.0003664	.0002081	.0007338	.0086968	.0006885
%RSD	.5732474	1.756114	.1938735	.5974761	2.030895	2.687655	3.550765
#1	1.775858	.0925949	.1886621	.0347059	.0354165	.3292891	.0200194
#2	1.768806	.0956879	.1893812	.0347063	.0360899	.3135745	.0186544
#3	1.755886	.0951833	.1888997	.0350665	.0368824	.3278888	.0194935

Reviewed By:
On:
Inst Id :P4
LB :LB137573

Sample Name: Q2893-08 Acquired: 10/16/2025 13:22:02 Type: Unk
Method: 6010-200.7 NEW(v286) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0213673	.0188864	.0199099
Stddev	.0023935	.0010836	.0000216
%RSD	11.20147	5.737274	.1086888
#1	.0186045	.0179821	.0198893
#2	.0226869	.0200874	.0199079
#3	.0228104	.0185897	.0199325

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5659.039	91383.09	6778.448	4484.734	7133.871
Stddev	2.775	225.16	10.868	15.862	6.947
%RSD	.0490421	.2463920	.1603368	.3536983	.0973834
#1	5659.376	91201.83	6773.835	4496.921	7138.819
#2	5661.631	91635.14	6770.648	4466.798	7136.867
#3	5656.111	91312.31	6790.863	4490.481	7125.929

Reviewed By:
On:
Inst Id :P4
LB :LB137573

Sample Name: Q2893-17 Acquired: 10/16/2025 13:26:17 Type: Unk
Method: 6010-200.7 NEW(v286) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0183337**	**.0312669**	**.0102431**	**.0191758**	**.0470475**	**.1163853**	**.0858745**
Stddev	.0018962	.0028172	.0007015	.0022341	.0009453	.0032386	.0014915
%RSD	10.34255	9.010351	6.848754	11.65055	2.009170	2.782610	1.736845
#1	.0168728	.0296421	.0110432	.0174557	.0470399	.1198154	.0874178
#2	.0204765	.0296385	.0099522	.0217008	.0479965	.1159602	.0844408
#3	.0176518	.0345200	.0097338	.0183708	.0461060	.1133802	.0857650

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0060780**	**.0053118**	**1.899187**	**.0096703**	**.0271940**	**.0206705**	**.0938261**
Stddev	.0000737	.0001145	.006040	.0002629	.0001275	.0002714	.0032255
%RSD	1.212471	2.156018	.3180277	2.718445	.4688327	1.313079	3.437730
#1	.0061475	.0051796	1.902636	.0097236	.0272002	.0203838	.0901316
#2	.0060856	.0053802	1.892213	.0099024	.0270635	.0209235	.0952643
#3	.0060007	.0053756	1.902712	.0093848	.0273182	.0207044	.0960823

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0199798**	**1.976400**	**.0366504**	**.0094685**	**1.848698**	**.0320137**	**.0464434**
Stddev	.0001790	.010036	.0003117	.0005850	.011158	.0010797	.0001012
%RSD	.8958376	.5077890	.8505473	6.178584	.6035336	3.372702	.2179746
#1	.0198783	1.979934	.0366782	.0091733	1.852987	.0317893	.0463281
#2	.0201865	1.965075	.0369472	.0101423	1.836033	.0331880	.0465178
#3	.0198748	1.984191	.0363256	.0090900	1.857075	.0310638	.0464841

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.719583**	**.0939444**	**.1878450**	**.0343135**	**.0355094**	**.3169093**	**.0184685**
Stddev	.043796	.0011393	.0004607	.0005447	.0009199	.0077934	.0013742
%RSD	2.546880	1.212743	.2452785	1.587502	2.590597	2.459179	7.440499
#1	1.671501	.0951965	.1879714	.0336907	.0356253	.3104499	.0183299
#2	1.757195	.0929687	.1873342	.0345486	.0363658	.3147129	.0199068
#3	1.730051	.0936682	.1882293	.0347012	.0345370	.3255652	.0171690

Reviewed By:
On:
Inst Id :P4
LB :LB137573

Sample Name: Q2893-17 Acquired: 10/16/2025 13:26:17 Type: Unk
Method: 6010-200.7 NEW(v286) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0236952	.0176395	.0195770
Stddev	.0006950	.0004591	.0000484
%RSD	2.932990	2.602662	.2474569
#1	.0229475	.0171100	.0195425
#2	.0243215	.0179261	.0195561
#3	.0238166	.0178824	.0196324

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5616.875	91090.29	6734.183	4474.852	7113.498
Stddev	11.170	143.41	26.656	11.786	16.385
%RSD	.1988726	.1574398	.3958363	.2633731	.2303338
#1	5629.222	91110.04	6734.747	4472.390	7131.251
#2	5613.933	91222.81	6707.249	4487.675	7110.286
#3	5607.470	90938.03	6760.553	4464.492	7098.957

Reviewed By:
On:
Inst Id :P4
LB :LB137573

Sample Name: Q2893-10 Acquired: 10/16/2025 13:30:33 Type: Unk
Method: 6010-200.7 NEW(v286) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0040571	.0027481	.0016916	.0044416	.0113603	.0304755	.0182030
Stddev	.0018306	.0014103	.0001887	.0018582	.0008946	.0110596	.0014157
%RSD	45.12116	51.31822	11.15364	41.83654	7.874802	36.28993	7.777029
#1	.0057866	.0012594	.0015103	.0036964	.0105019	.0426099	.0190778
#2	.0042450	.0040640	.0016776	.0065568	.0112918	.0209613	.0189616
#3	.0021398	.0029211	.0018869	.0030717	.0122872	.0278554	.0165697

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0015489	.0013164	.4926024	.0024679	.0068820	.0055338	.0196126
Stddev	.0000701	.0001190	.0191719	.0002153	.0001056	.0001095	.0094667
%RSD	4.526280	9.036908	3.891954	8.724420	1.533833	1.978950	48.26836
#1	.0016187	.0011796	.4777804	.0025418	.0069916	.0056164	.0097132
#2	.0015496	.0013740	.5142539	.0026365	.0068737	.0055755	.0285772
#3	.0014785	.0013957	.4857729	.0022254	.0067809	.0054096	.0205474

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0043533	.4981720	.0092656	.0025852	.4729872	.0090797	.0100310
Stddev	.0001637	.0115467	.0001849	.0006010	.0198198	.0012845	.0001388
%RSD	3.760088	2.317813	1.995939	23.24900	4.190348	14.14717	1.383981
#1	.0044106	.5055415	.0094648	.0032465	.4540046	.0077238	.0101913
#2	.0044806	.5041098	.0092327	.0024369	.4714072	.0102784	.0099538
#3	.0041687	.4848647	.0090994	.0020722	.4935497	.0092368	.0099480

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3990250	.0212604	.0478046	.0079923	.0092195	.0695245	.0044201
Stddev	.0386927	.0009281	.0001609	.0005171	.0005547	.0062417	.0008479
%RSD	9.696799	4.365398	.3366390	6.469797	6.016308	8.977747	19.18184
#1	.3908165	.0215462	.0476721	.0075122	.0088997	.0624140	.0048281
#2	.4411633	.0202230	.0477578	.0079251	.0098599	.0720600	.0049867
#3	.3650952	.0220121	.0479837	.0085398	.0088987	.0740995	.0034453

Reviewed By:
On:
Inst Id :P4
LB :LB137573

Sample Name: Q2893-10 Acquired: 10/16/2025 13:30:33 Type: Unk
Method: 6010-200.7 NEW(v286) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0078008	.0019138	.0048519
Stddev	.0022299	.0007689	.0000454
%RSD	28.58555	40.17630	.9364967
#1	.0062944	.0019461	.0048564
#2	.0067456	.0026660	.0048044
#3	.0103624	.0011293	.0048949

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5527.735	90126.93	6670.724	4341.172	7113.983
Stddev	4.437	134.73	13.868	9.610	6.046
%RSD	.0802638	.1494868	.2078899	.2213656	.0849892
#1	5532.622	90275.93	6657.542	4331.147	7117.652
#2	5526.624	90091.16	6685.189	4350.305	7107.005
#3	5523.959	90013.69	6669.441	4342.062	7117.292

Reviewed By:
On:
Inst Id :P4
LB :LB137573

Sample Name: CCV02 Acquired: 10/16/2025 13:45:08 Type: Unk
Method: 6010-200.7 NEW(v286) 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	**4.916143**	**4.754080**	**4.798240**	**4.939822**	**4.929086**	**9.707325**	**9.952562**
Stddev	.016290	.225693	.011706	.019361	.009171	.050126	.094249
%RSD	.3313478	4.747347	.2439679	.3919366	.1860608	.5163760	.9469845
#1	4.898167	4.540785	4.794052	4.918987	4.919317	9.663945	9.844013
#2	4.929926	4.731052	4.811464	4.943220	4.930431	9.695831	10.00008
#3	4.920337	4.990404	4.789204	4.957260	4.937511	9.762201	10.01360

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2452448**	**2.394754**	**24.47366**	**.9578404**	**2.404758**	**1.226380**	**4.932648**
Stddev	.0026643	.009398	.14865	.0022725	.009461	.004124	.052622
%RSD	1.086402	.3924408	.6073978	.2372482	.3934335	.3362986	1.066801
#1	.2435652	2.385637	24.30776	.9565980	2.395656	1.224064	4.904351
#2	.2438523	2.404410	24.51845	.9604632	2.414541	1.231142	4.993364
#3	.2483169	2.394216	24.59476	.9564600	2.404075	1.223935	4.900229

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.497292**	**24.16661**	**2.399403**	**1.219482**	**24.36497**	**2.442204**	**2.444961**
Stddev	.021417	.14316	.008940	.001155	.25082	.013499	.003955
%RSD	.8576169	.5923698	.3726102	.0947174	1.029433	.5527574	.1617521
#1	2.472649	24.00645	2.390465	1.220815	24.22390	2.427813	2.444762
#2	2.507815	24.21125	2.408346	1.218782	24.65456	2.444211	2.449012
#3	2.511413	24.28212	2.399397	1.218848	24.21644	2.454587	2.441110

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**24.06089**	**4.964633**	**4.932762**	**4.899435**	**4.929784**	**4.731253**	**4.955517**
Stddev	.27187	.038481	.015886	.022774	.031884	.043564	.025272
%RSD	1.129912	.7750998	.3220452	.4648265	.6467715	.9207733	.5099767
#1	23.92721	4.950280	4.915777	4.873353	4.893797	4.698387	4.930380
#2	24.37372	4.935390	4.947254	4.915386	4.941048	4.780666	4.955251
#3	23.88175	5.008227	4.935253	4.909565	4.954508	4.714706	4.980922

Reviewed By:
On:
Inst Id :P4
LB :LB137573

Sample Name: CCV02 Acquired: 10/16/2025 13:45:08 Type: Unk
Method: 6010-200.7 NEW(v286) 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	**4.917751**	**4.862421**	**4.959301**
Stddev	.043636	.033542	.072146
%RSD	.8873074	.6898126	1.454762
#1	4.869169	4.823972	4.903002
#2	4.930468	4.877607	4.934273
#3	4.953615	4.885683	5.040628

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5406.081**	**87297.42**	**6641.371**	**4293.848**	**6233.835**
Stddev	21.753	440.01	62.298	19.192	25.572
%RSD	.4023713	.5040339	.9380275	.4469751	.4102148
#1	5416.343	87601.76	6694.185	4315.829	6249.344
#2	5381.096	86792.92	6657.262	4280.409	6204.320
#3	5420.804	87497.58	6572.667	4285.307	6247.842

Reviewed By:
On:
Inst Id :P4
LB :LB137573

Sample Name: CCB02 Acquired: 10/16/2025 13:49:12 Type: Unk
Method: 6010-200.7 NEW(v286) 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	**-.001550**	**-.005260**	**.0002413**	**.0008919**	**-.000923**	**.0312726**	**-.005450**
Stddev	.003098	.002288	.0008792	.0028406	.001018	.0058472	.002032
%RSD	199.9548	43.50056	364.3346	318.5020	110.2821	18.69749	37.27750
#1	.001098	-.003323	-.000773	.0041345	-.002067	.0271568	-.007252
#2	-.000790	-.007784	.000704	-.001157	-.000114	.0379656	-.003248
#3	-.004957	-.004672	.000793	-.000302	-.000589	.0286953	-.005850

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000447**	**-.000017**	**.0136255**	**.0003463**	**-.000100**	**.0003877**	**.0128620**
Stddev	.0000249	.000046	.0093246	.0002067	.000113	.0000994	.0085117
%RSD	55.60779	268.3503	68.43474	59.70480	112.9539	25.63972	66.17689
#1	.0000594	.000000	.0029868	.0005818	.000002	.0003815	.0186498
#2	.0000160	.000018	.0175089	.0002619	-.000081	.0002915	.0168473
#3	.0000588	-.000070	.0203808	.0001950	-.000222	.0004900	.0030888

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000126**	**-.006962**	**.0000803**	**-.000078**	**.0157188**	**-.001438**	**.0069878**
Stddev	.000355	.010330	.0003341	.000387	.0171946	.002773	.0001954
%RSD	280.9337	148.3826	416.1226	497.8972	109.3889	192.7823	2.796773
#1	.000256	-.012348	.0002659	.000127	.0006092	.000640	.0068736
#2	-.000190	-.013485	.0002804	-.000524	.0121187	-.004587	.0072134
#3	-.000445	.004948	-.000305	.000164	.0344283	-.000369	.0068763

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.061129**	**.0101748**	**.0002490**	**-.000303**	**-.001043**	**.0026044**	**.0006389**
Stddev	.010000	.0008827	.0001638	.000797	.002137	.0018146	.0017016
%RSD	16.35927	8.675895	65.79452	262.8413	204.9430	69.67237	266.3285
#1	-.065050	.0111422	.0004227	.000181	-.001756	.0019849	.0024930
#2	-.068574	.0094129	.0002272	.000132	-.002732	.0046476	-.000851
#3	-.049762	.0099694	.0000972	-.001223	.001360	.0011808	.000275

Reviewed By:
On:
Inst Id :P4
LB :LB137573

Sample Name: CCB02 Acquired: 10/16/2025 13:49:12 Type: Unk
Method: 6010-200.7 NEW(v286) 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	.0069617	.0005119	.0000161
Stddev	.0016632	.0032033	.0000198
%RSD	23.89091	625.8225	123.2548
#1	.0072153	.0000133	.0000134
#2	.0051863	.0039352	-.000002
#3	.0084836	-.002413	.000037

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5487.487	89120.15	6551.567	4320.102	7123.073
Stddev	11.534	361.54	31.075	7.987	27.076
%RSD	.2101910	.4056726	.4743098	.1848855	.3801099
#1	5474.217	89274.22	6528.640	4310.886	7094.039
#2	5495.101	89379.13	6539.128	4325.020	7127.550
#3	5493.144	88707.10	6586.935	4324.399	7147.632

Reviewed By:
On:
Inst Id :P4
LB :LB137573

Sample Name: Q2893-02 Acquired: 10/16/2025 13:59:23 Type: Unk
Method: 6010-200.7 NEW(v286) 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	.0183429	.0333791	.0109791	.0188836	.0468327	.1100305
Stddev	.0011729	.0042294	.0009528	.0021604	.0006681	.0011611
%RSD	6.394022	12.67089	8.678522	11.44057	1.426503	1.055285
#1	.0192985	.0288174	.0110432	.0182496	.0466716	.1101247
#2	.0186962	.0341496	.0099959	.0212901	.0475666	.1111417
#3	.0170340	.0371703	.0118983	.0171112	.0462600	.1088251

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0896912	.0060558	.0053153	1.909656	.0096684	.0271788
Stddev	.0017928	.0000611	.0000124	.015716	.0000518	.0001594
%RSD	1.998825	1.008430	.2334504	.8229495	.5358239	.5865434
#1	.0917512	.0059949	.0053274	1.926187	.0097064	.0270821
#2	.0888389	.0061170	.0053158	1.894908	.0096094	.0273628
#3	.0884837	.0060554	.0053026	1.907874	.0096895	.0270915

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0208121	.0976171	.0193415	1.959933	.0367127	.0095949
Stddev	.0003471	.0052593	.0008704	.010627	.0000451	.0002546
%RSD	1.667923	5.387642	4.500126	.5421891	.1229100	2.654028
#1	.0208626	.1035037	.0183944	1.963703	.0367447	.0094539
#2	.0211311	.0959665	.0201062	1.968161	.0367323	.0094419
#3	.0204424	.0933811	.0195240	1.947936	.0366611	.0098889

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.777157	.0322075	.0404831	1.649393	.0981233	.1890423
Stddev	.011590	.0015632	.0002709	.037132	.0002340	.0003927
%RSD	.6521730	4.853461	.6690703	2.251234	.2384896	.2077343
#1	1.788850	.0339380	.0407282	1.606730	.0983931	.1887484
#2	1.765672	.0317865	.0405287	1.674423	.0979749	.1894883
#3	1.776949	.0308979	.0401923	1.667025	.0980021	.1888900

Reviewed By:
On:
Inst Id :P4
LB :LB137573

Sample Name: Q2893-02 Acquired: 10/16/2025 13:59:23 Type: Unk
Method: 6010-200.7 NEW(v286) 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	.0342764	.0354290	.3302312	.0185755	F .0280519	.0176853
Stddev	.0002050	.0019203	.0083280	.0010265	.0030123	.0015329
%RSD	.5979900	5.420075	2.521859	5.525906	10.73825	8.667577
#1	.0345096	.0335126	.3315916	.0197477	.0246040	.0193143
#2	.0341947	.0354212	.3213068	.0181415	.0293788	.0162712
#3	.0341249	.0373532	.3377952	.0178373	.0301730	.0174703

Elem	Sr4077
Units	ppm
Avg	.0192949
Stddev	.0000428
%RSD	.2217227
#1	.0192455
#2	.0193190
#3	.0193202

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5662.268	91172.43	6911.744	4386.493	7166.199
Stddev	9.769	115.16	19.152	11.442	21.275
%RSD	.1725360	.1263051	.2770893	.2608544	.2968793
#1	5664.898	91071.61	6912.336	4385.497	7171.393
#2	5670.453	91147.75	6930.592	4398.400	7184.396
#3	5651.452	91297.92	6892.303	4375.581	7142.808

Reviewed By:
On:
Inst Id :P4
LB :LB137573

Sample Name: Q2893-11 Acquired: 10/16/2025 14:07:55 Type: Unk
Method: 6010-200.7 NEW(v286) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0178396**	**.0315492**	**.0102886**	**.0215323**	**.0477405**	**.1146231**	**.0910025**
Stddev	.0021936	.0016493	.0001442	.0014252	.0009689	.0066720	.0004482
%RSD	12.29631	5.227607	1.401936	6.618790	2.029465	5.820836	.4924775
#1	.0157749	.0307269	.0103070	.0213544	.0472741	.1205657	.0905127
#2	.0176014	.0334480	.0101361	.0202044	.0488544	.1074056	.0913921
#3	.0201427	.0304729	.0104228	.0230381	.0470930	.1158981	.0911026

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0061047**	**.0053603**	**1.958438**	**.0096466**	**.0277000**	**.0207360**	**.1025198**
Stddev	.0000861	.0000695	.018626	.0001184	.0000317	.0001959	.0022610
%RSD	1.409719	1.295877	.9510720	1.227812	.1143504	.9446058	2.205464
#1	.0060168	.0052882	1.979940	.0097632	.0277352	.0208471	.1048896
#2	.0061085	.0053660	1.948129	.0096503	.0276908	.0205099	.1003860
#3	.0061888	.0054268	1.947246	.0095264	.0276739	.0208511	.1022839

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0201720**	**1.995761**	**.0369981**	**.0100392**	**1.805588**	**.0345394**	**.0444204**
Stddev	.0002408	.030496	.0002782	.0003053	.015529	.0016228	.0004319
%RSD	1.193481	1.528027	.7518147	3.040606	.8600306	4.698349	.9723457
#1	.0200102	2.028761	.0372763	.0098150	1.819774	.0326766	.0441136
#2	.0200572	1.968619	.0369981	.0103868	1.807993	.0352954	.0442333
#3	.0204487	1.989905	.0367200	.0099157	1.788997	.0356463	.0449143

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.720920**	**.1000101**	**.1916437**	**.0357431**	**.0354665**	**.3161521**	**.0189468**
Stddev	.013363	.0005455	.0002404	.0004263	.0006322	.0058661	.0015104
%RSD	.7764887	.5454494	.1254183	1.192638	1.782543	1.855474	7.971971
#1	1.726925	.0997265	.1915172	.0362168	.0358887	.3227318	.0195050
#2	1.730228	.0996648	.1919209	.0356223	.0347397	.3114687	.0172367
#3	1.705609	.1006390	.1914931	.0353903	.0357712	.3142558	.0200986

Reviewed By:
On:
Inst Id :P4
LB :LB137573

Sample Name: Q2893-11 Acquired: 10/16/2025 14:07:55 Type: Unk
Method: 6010-200.7 NEW(v286) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0244520	.0164707	.0201198
Stddev	.0014612	.0007034	.0001781
%RSD	5.975968	4.270345	.8850295
#1	.0227854	.0159523	.0202565
#2	.0250571	.0161885	.0199185
#3	.0255135	.0172714	.0201845

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5514.543	89186.66	6602.786	4375.609	6971.663
Stddev	11.981	202.78	54.554	8.230	12.165
%RSD	.2172647	.2273682	.8262345	.1880952	.1744858
#1	5502.997	89242.98	6617.380	4381.257	6959.732
#2	5513.715	89355.33	6648.559	4379.404	6971.208
#3	5526.917	88961.67	6542.418	4366.166	6984.048

Reviewed By:
On:
Inst Id :P4
LB :LB137573

Sample Name: PBS Acquired: 10/16/2025 14:12:11 Type: Unk
Method: 6010-200.7 NEW(v286) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000081**	**-.004961**	**-.000600**	**-.000006**	**-.000525**	**.0049907**	**-.004468**
Stddev	.000890	.002026	.000862	.002888	.000942	.0129397	.001086
%RSD	1096.240	40.84095	143.6979	51152.59	179.6647	259.2753	24.31392
#1	.000915	-.003006	-.001515	.001169	-.000147	-.006583	-.003501
#2	-.000800	-.007051	-.000483	-.003295	.000171	.018961	-.004259
#3	-.000358	-.004825	.000198	.002110	-.001597	.002594	-.005644

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000648**	**-.000008**	**.0053640**	**.0002642**	**-.000040**	**-.000062**	**-.005785**
Stddev	.0000408	.000044	.0077348	.0002953	.000154	.000066	.002628
%RSD	63.01620	531.7539	144.1972	111.8054	383.5862	107.5342	45.42603
#1	.0000336	.000042	.0060599	.0000516	-.000023	-.000121	-.006997
#2	.0001111	-.000029	-.002695	.0001395	-.000202	-.000073	-.007589
#3	.0000498	-.000038	.012727	.0006014	.000105	.000010	-.002770

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000345**	**.0154529**	**-.000246**	**-.000087**	**-.022643**	**-.001862**	**.0001413**
Stddev	.000289	.0238890	.000193	.000562	.009915	.000885	.0000826
%RSD	83.84231	154.5929	78.34417	645.5584	43.78604	47.51994	58.45138
#1	-.000607	.0116942	-.000033	-.000714	-.034086	-.002066	.0002124
#2	-.000034	-.006334	-.000296	.000083	-.017251	-.000893	.0001609
#3	-.000394	.040998	-.000409	.000370	-.016594	-.002627	.0000507

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.122380**	**-.000505**	**-.000165**	**-.000903**	**.0003360**	**-.000522**	**.0006664**
Stddev	.023192	.000343	.000126	.000042	.0020567	.004963	.0005490
%RSD	18.95051	67.99712	76.19791	4.681765	612.0735	950.7161	82.37544
#1	-.132224	-.000787	-.000045	-.000908	.0027101	-.003921	.0009051
#2	-.095890	-.000604	-.000296	-.000943	-.000796	.005174	.0010557
#3	-.139026	-.000123	-.000154	-.000859	-.000906	-.002819	.0000385

Reviewed By:
On:
Inst Id :P4
LB :LB137573

Sample Name: PBS Acquired: 10/16/2025 14:12:11 Type: Unk
Method: 6010-200.7 NEW(v286) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0070653	-.005132	-.000053
Stddev	.0026853	.001700	.000077
%RSD	38.00680	33.13608	146.0175
#1	.0045642	-.006382	-.000089
#2	.0067286	-.005818	-.000104
#3	.0099030	-.003195	.000036

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5468.880	88436.97	6635.966	4277.911	7070.920
Stddev	9.870	103.21	49.845	4.259	17.396
%RSD	.1804672	.1167046	.7511311	.0995475	.2460248
#1	5458.076	88317.83	6579.732	4276.158	7055.491
#2	5471.143	88499.13	6674.705	4282.767	7067.494
#3	5477.422	88493.96	6653.461	4274.810	7089.774

Reviewed By:
On:
Inst Id :P4
LB :LB137573

Sample Name: LCSS Acquired: 10/16/2025 14:16:30 Type: Unk
Method: 6010-200.7 NEW(v286) 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	**.7294918**	**1.706174**	**.8723531**	**1.858412**	**.7691874**	**1.827782**
Stddev	.0045395	.102264	.0009770	.015021	.0020371	.010983
%RSD	.6222819	5.993749	.1119937	.8082541	.2648339	.6009074
#1	.7309574	1.667184	.8716924	1.853930	.7705516	1.831611
#2	.7244006	1.629141	.8718916	1.846142	.7668458	1.836339
#3	.7331175	1.822197	.8734754	1.875163	.7701649	1.815397

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1743651**	**.1911390**	**.1739806**	**.9247983**	**.3769153**	**.1780231**
Stddev	.0023893	.0009912	.0003571	.0011399	.0005763	.0003421
%RSD	1.370285	.5185562	.2052644	.1232588	.1528940	.1921582
#1	.1760722	.1922808	.1738402	.9247019	.3775793	.1776611
#2	.1753885	.1906351	.1737151	.9237097	.3766205	.1780673
#3	.1716345	.1905009	.1743866	.9259833	.3765460	.1783411

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2901126**	**2.705768**	**.1831766**	**1.856814**	**.4472076**	**.0712701**
Stddev	.0006362	.027558	.0009798	.025579	.0004096	.0004573
%RSD	.2193029	1.018501	.5349197	1.377587	.0915800	.6416371
#1	.2901581	2.675157	.1820559	1.884758	.4470950	.0708125
#2	.2894549	2.728603	.1838717	1.834556	.4468662	.0712708
#3	.2907249	2.713544	.1836022	1.851128	.4476617	.0717271

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.542765**	**.2696547**	**.1930381**	**8.481347**	**.2772715**	**.3918275**
Stddev	.013190	.0013422	.0002662	.068541	.0017008	.0015633
%RSD	.5187074	.4977510	.1379006	.8081329	.6133985	.3989699
#1	2.536704	.2711708	.1932528	8.405719	.2792354	.3917773
#2	2.557896	.2686181	.1931212	8.498960	.2762941	.3902900
#3	2.533696	.2691752	.1927402	8.539362	.2762852	.3934153

Reviewed By:
On:
Inst Id :P4
LB :LB137573

Sample Name: LCSS Acquired: 10/16/2025 14:16:30 Type: Unk
Method: 6010-200.7 NEW(v286) 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	**.6374424**	**.1800813**	**.7946192**	**5.125261**	F **.0054383**	**.1758862**
Stddev	.0035245	.0032255	.0112607	.042031	.0036800	.0008013
%RSD	.5529149	1.791141	1.417113	.8200724	67.66814	.4555907
#1	.6378185	.1764745	.7842274	5.133456	.0086946	.1762286
#2	.6337449	.1826891	.8065834	5.079736	.0061743	.1764595
#3	.6407637	.1810803	.7930467	5.162591	.0014459	.1749706

Elem	Sr4077
Units	ppm
Avg	**.1756414**
Stddev	.0002994
%RSD	.1704653
#1	.1753487
#2	.1759471
#3	.1756282

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5547.459**	**89087.11**	**6744.183**	**4238.057**	**6896.273**
Stddev	3.779	164.74	27.075	20.831	.901
%RSD	.0681173	.1849223	.4014528	.4915154	.0130639
#1	5543.204	89138.72	6714.980	4224.200	6897.299
#2	5550.423	89219.87	6768.450	4262.012	6895.614
#3	5548.749	88902.75	6749.119	4227.960	6895.904

Reviewed By:
On:
Inst Id :P4
LB :LB137573

Sample Name: PBW Acquired: 10/16/2025 14:20:31 Type: Unk
Method: 6010-200.7 NEW(v286) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.001683**	**-.004858**	**-.000803**	**-.000470**	**-.000203**	**.0185537**	**-.001310**
Stddev	.001033	.001668	.001377	.000997	.000971	.0091018	.000799
%RSD	61.38385	34.34085	171.4614	211.9573	478.6275	49.05645	60.98294
#1	-.000615	-.004295	.000247	-.000772	-.000369	.0191391	-.001238
#2	-.001756	-.003544	-.002362	.000643	-.001080	.0091734	-.002142
#3	-.002677	-.006735	-.000295	-.001282	.000841	.0273487	-.000549

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000594**	**-.000026**	**.0078685**	**.0002271**	**-.000052**	**.0001030**	**-.001006**
Stddev	.0000616	.000034	.0045098	.0001631	.000167	.0001740	.002177
%RSD	103.8291	131.0483	57.31461	71.80306	318.2685	168.9025	216.4300
#1	.0001109	.000008	.0125691	.0003073	.000132	.0001711	.000751
#2	.0000761	-.000027	.0074588	.0000395	-.000095	.0002328	-.000327
#3	-.000009	-.000060	.0035775	.0003346	-.000194	-.000095	-.003441

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000452**	**-.026266**	**-.000189**	**-.000407**	**-.042950**	**-.002468**	**.0010827**
Stddev	.000150	.022428	.000287	.000225	.015300	.000622	.0001164
%RSD	33.19997	85.38785	151.5216	55.29249	35.62220	25.19002	10.75042
#1	-.000279	-.001706	.000108	-.000147	-.058901	-.002832	.0010765
#2	-.000550	-.045662	-.000212	-.000532	-.041552	-.002823	.0012020
#3	-.000526	-.031431	-.000465	-.000542	-.028398	-.001750	.0009695

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.128098**	**-.001211**	**-.000149**	**-.000724**	**-.000246**	**.0047427**	**.0010894**
Stddev	.051140	.000874	.000103	.000343	.000188	.0118854	.0001351
%RSD	39.92233	72.13924	69.37519	47.42042	76.72411	250.6038	12.39955
#1	-.186953	-.001694	-.000168	-.000804	-.000312	.0162072	.0011043
#2	-.102823	-.001736	-.000038	-.000348	-.000392	-.007523	.0009475
#3	-.094516	-.000203	-.000242	-.001021	-.000033	.005544	.0012165

Reviewed By:
On:
Inst Id :P4
LB :LB137573

Sample Name: PBW Acquired: 10/16/2025 14:20:31 Type: Unk
Method: 6010-200.7 NEW(v286) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0075301	-.005251	-.000069
Stddev	.0016391	.002356	.000142
%RSD	21.76682	44.87535	205.2303
#1	.0061166	-.007872	-.000026
#2	.0071470	-.004574	-.000228
#3	.0093268	-.003307	.000046

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5494.215	89443.69	6790.291	4296.219	7127.487
Stddev	6.780	466.72	11.477	22.279	6.807
%RSD	.1233941	.5218078	.1690155	.5185715	.0955078
#1	5500.601	88959.87	6782.480	4271.405	7132.099
#2	5487.101	89480.01	6803.468	4302.746	7119.669
#3	5494.943	89891.20	6784.926	4314.505	7130.694

Reviewed By:
On:
Inst Id :P4
LB :LB137573

Sample Name: LCSW Acquired: 10/16/2025 14:24:49 Type: Unk
Method: 6010-200.7 NEW(v286) 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	**.7392147**	**1.801926**	**.8728224**	**1.892485**	**.7601600**	**1.827556**
Stddev	.0016692	.028272	.0020735	.009964	.0014579	.016635
%RSD	.2258060	1.569015	.2375589	.5264864	.1917880	.9102527
#1	.7383379	1.783629	.8728731	1.903895	.7611325	1.814998
#2	.7381665	1.834490	.8707240	1.885500	.7608638	1.821248
#3	.7411395	1.787660	.8748700	1.888061	.7584838	1.846423

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1748667**	**.1907464**	**.1721099**	**.9436030**	**.3722314**	**.1775018**
Stddev	.0014823	.0025595	.0003004	.0063526	.0003194	.0001913
%RSD	.8476855	1.341815	.1745284	.6732311	.0858211	.1077757
#1	.1746664	.1928541	.1720588	.9475079	.3720146	.1773542
#2	.1734947	.1878984	.1718383	.9470281	.3725982	.1774334
#3	.1764389	.1914867	.1724325	.9362728	.3720813	.1777180

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2897398**	**2.756864**	**.1877885**	**1.838130**	**.4454726**	**.0700415**
Stddev	.0004401	.037926	.0014668	.030820	.0006373	.0003070
%RSD	.1518894	1.375683	.7810752	1.676711	.1430535	.4383753
#1	.2900202	2.713084	.1880480	1.868648	.4454625	.0699217
#2	.2892325	2.777855	.1862092	1.807016	.4448405	.0698124
#3	.2899665	2.779654	.1891082	1.838724	.4461149	.0703904

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.578966**	**.2754251**	**.1918758**	**8.569878**	**.2796929**	**.3753006**
Stddev	.013544	.0038630	.0004588	.146815	.0045466	.0002273
%RSD	.5251667	1.402575	.2391175	1.713153	1.625563	.0605719
#1	2.564424	.2791582	.1923237	8.408307	.2836511	.3753165
#2	2.581254	.2714440	.1914068	8.695115	.2747270	.3755196
#3	2.591220	.2756729	.1918968	8.606210	.2807006	.3750658

Reviewed By:
On:
Inst Id :P4
LB :LB137573

Sample Name: LCSW Acquired: 10/16/2025 14:24:49 Type: Unk
Method: 6010-200.7 NEW(v286) 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	.6214775	.1762046	.7661152	5.265158	F .0056719	.1780911
Stddev	.0031722	.0005716	.0105617	.029457	.0007363	.0022656
%RSD	.5104245	.3244167	1.378608	.5594637	12.98091	1.272142
#1	.6227732	.1755470	.7603458	5.294359	.0065189	.1781716
#2	.6178626	.1764838	.7596948	5.235453	.0051855	.1757864
#3	.6237967	.1765830	.7783051	5.265663	.0053112	.1803154

Elem	Sr4077
Units	ppm
Avg	.1795253
Stddev	.0015351
%RSD	.8550618
#1	.1796482
#2	.1779324
#3	.1809951

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5537.966	89465.46	6718.060	4385.354	6888.814
Stddev	4.551	498.80	60.409	15.136	8.713
%RSD	.0821715	.5575291	.8992025	.3451535	.1264783
#1	5542.896	90035.57	6684.114	4367.911	6896.966
#2	5533.927	89109.49	6787.806	4395.036	6889.845
#3	5537.073	89251.33	6682.260	4393.113	6879.632

Reviewed By:
On:
Inst Id :P4
LB :LB137573

Sample Name: PBW Acquired: 10/16/2025 14:28:51 Type: Unk
Method: 6010-200.7 NEW(v286) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.001489**	**-.005314**	**-.000980**	**-.001173**	**-.001892**	**.0050698**	**-.004962**
Stddev	.002771	.000994	.000600	.003039	.000714	.0091665	.001139
%RSD	186.1721	18.71325	61.25517	259.0164	37.72938	180.8057	22.96412
#1	-.002936	-.005169	-.001247	.002321	-.001076	.0110903	-.006271
#2	-.003237	-.006373	-.000293	-.002646	-.002400	-.005480	-.004423
#3	.001707	-.004400	-.001400	-.003194	-.002200	.009599	-.004192

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000003**	**.0000086**	**.0031250**	**.0004063**	**-.000089**	**.0002135**	**.0278209**
Stddev	.000043	.0000611	.0110634	.0004047	.000071	.0001812	.0101757
%RSD	1331.678	713.8563	354.0323	99.61028	79.56192	84.88278	36.57552
#1	.000010	.0000752	.0147082	-.000056	-.000039	.0004117	.0160722
#2	-.000051	-.000005	-.007332	.000699	-.000058	.0000562	.0338320
#3	.000032	-.000045	.001999	.000575	-.000170	.0001727	.0335586

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000323**	**-.011792**	**.0001439**	**-.000408**	**-.039784**	**-.000357**	**.0004107**
Stddev	.0003424	.011902	.0001885	.000395	.020997	.001616	.0001418
%RSD	1060.054	100.9366	130.9459	96.91634	52.77828	452.4026	34.51967
#1	.0004263	-.024476	.0000199	-.000235	-.061894	-.000368	.0002653
#2	-.000136	-.010033	.0000511	-.000128	-.020112	.001264	.0005485
#3	-.000193	-.000867	.0003608	-.000860	-.037347	-.001968	.0004183

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.102411**	**-.001090**	**-.000161**	**-.000793**	**-.000581**	**-.002088**	**.0004681**
Stddev	.014616	.000721	.000036	.000259	.001415	.008918	.0017484
%RSD	14.27155	66.14813	22.48103	32.60708	243.5725	427.1197	373.5218
#1	-.099086	-.000905	-.000154	-.000959	.001006	.008194	-.001262
#2	-.118402	-.001885	-.000201	-.000925	-.001039	-.007729	.002235
#3	-.089744	-.000479	-.000129	-.000495	-.001711	-.006729	.000431

Reviewed By:
On:
Inst Id :P4
LB :LB137573

Sample Name: PBW Acquired: 10/16/2025 14:28:51 Type: Unk
Method: 6010-200.7 NEW(v286) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0066431	-.004236	-.000036
Stddev	.0010704	.001693	.000022
%RSD	16.11284	39.96527	60.23201
#1	.0058039	-.005054	-.000018
#2	.0062769	-.005365	-.000030
#3	.0078486	-.002290	-.000060

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5534.478	89224.79	6672.423	4366.090	7120.840
Stddev	5.969	294.67	17.295	20.326	5.882
%RSD	.1078592	.3302593	.2591949	.4655424	.0825997
#1	5528.047	88993.49	6655.264	4371.751	7117.534
#2	5539.842	89124.31	6689.850	4343.534	7117.356
#3	5535.546	89556.56	6672.157	4382.986	7127.631

Reviewed By:
On:
Inst Id :P4
LB :LB137573

Sample Name: LCSW Acquired: 10/16/2025 14:40:13 Type: Unk
Method: 6010-200.7 NEW(v286) 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	**.7404089**	**1.873447**	**.8775398**	**1.892903**	**.7605712**	**1.845323**
Stddev	.0013758	.046045	.0019883	.002928	.0017074	.007330
%RSD	.1858204	2.457795	.2265743	.1546846	.2244916	.3972262
#1	.7409085	1.906266	.8753559	1.895192	.7586095	1.850794
#2	.7414650	1.893264	.8780182	1.893913	.7613821	1.836994
#3	.7388530	1.820811	.8792452	1.889604	.7617221	1.848181

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1760094**	**.1902773**	**.1745538**	**.9385615**	**.3777242**	**.1789937**
Stddev	.0007761	.0007731	.0000360	.0091673	.0005971	.0001406
%RSD	.4409596	.4062861	.0206118	.9767352	.1580650	.0785286
#1	.1759195	.1903439	.1745911	.9365029	.3770848	.1788453
#2	.1752821	.1894731	.1745509	.9305986	.3782671	.1790107
#3	.1768265	.1910149	.1745193	.9485830	.3778206	.1791249

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2915689**	**2.759438**	**.1865786**	**1.860861**	**.4495713**	**.0709695**
Stddev	.0005481	.012935	.0016043	.004229	.0005479	.0003030
%RSD	.1879990	.4687522	.8598384	.2272563	.1218832	.4269724
#1	.2919928	2.766929	.1865849	1.859992	.4502018	.0706646
#2	.2909499	2.766884	.1881797	1.857134	.4492108	.0709734
#3	.2917641	2.744502	.1849712	1.865457	.4493011	.0712706

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.565580**	**.2745894**	**.1953628**	**8.616915**	**.2764743**	**.3827864**
Stddev	.010792	.0044566	.0001918	.070459	.0020758	.0002940
%RSD	.4206412	1.622992	.0981789	.8176864	.7508267	.0768104
#1	2.567950	.2748232	.1954611	8.586512	.2775593	.3830371
#2	2.553801	.2789245	.1951417	8.697471	.2740808	.3828592
#3	2.574991	.2700206	.1954854	8.566761	.2777828	.3824628

Reviewed By:
On:
Inst Id :P4
LB :LB137573

Sample Name: LCSW Acquired: 10/16/2025 14:40:13 Type: Unk
Method: 6010-200.7 NEW(v286) 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	**.6288347**	**.1784006**	**.8011086**	**5.202123**	F **.0088604**	**.1775067**
Stddev	.0037244	.0033021	.0154950	.016583	.0017934	.0028990
%RSD	.5922773	1.850935	1.934191	.3187662	20.23998	1.633201
#1	.6261207	.1818464	.8092676	5.187282	.0098700	.1805219
#2	.6330808	.1752641	.7832390	5.220021	.0099215	.1772585
#3	.6273025	.1780913	.8108192	5.199066	.0067899	.1747398

Elem	Sr4077
Units	ppm
Avg	**.1775142**
Stddev	.0002755
%RSD	.1552104
#1	.1777701
#2	.1772226
#3	.1775498

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5571.895**	**89274.76**	**6815.609**	**4301.746**	**6915.723**
Stddev	2.586	125.35	34.339	10.782	4.404
%RSD	.0464042	.1404111	.5038339	.2506500	.0636858
#1	5568.913	89384.76	6817.809	4294.783	6919.452
#2	5573.520	89138.29	6848.796	4314.166	6910.863
#3	5573.251	89301.22	6780.223	4296.289	6916.853

Reviewed By:
On:
Inst Id :P4
LB :LB137573

Sample Name: CCV03 Acquired: 10/16/2025 14:45:10 Type: Unk
Method: 6010-200.7 NEW(v286) 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	**4.836626**	**4.876190**	**4.736484**	**4.867919**	**4.834567**	**9.593826**	**9.624625**
Stddev	.021872	.058860	.012104	.019223	.021580	.041812	.063400
%RSD	.4522180	1.207091	.2555509	.3948920	.4463708	.4358207	.6587294
#1	4.855225	4.938970	4.746679	4.887968	4.857759	9.561541	9.645031
#2	4.842124	4.867349	4.739665	4.866142	4.830862	9.578880	9.553534
#3	4.812530	4.822251	4.723106	4.849646	4.815079	9.641057	9.675309

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2462689**	**2.364959**	**24.08998**	**.9590048**	**2.368065**	**1.208698**	**4.795431**
Stddev	.0012540	.004967	.04005	.0043952	.006700	.004039	.025917
%RSD	.5092060	.2100352	.1662428	.4583121	.2829411	.3341298	.5404511
#1	.2448215	2.367577	24.05136	.9629002	2.371945	1.212398	4.820302
#2	.2470300	2.368069	24.08725	.9542397	2.371922	1.209307	4.768582
#3	.2469552	2.359230	24.13132	.9598744	2.360328	1.204390	4.797410

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.434083**	**23.83203**	**2.364315**	**1.211457**	**23.05328**	**2.414328**	**2.434934**
Stddev	.010420	.07921	.005469	.000244	.30152	.006627	.006958
%RSD	.4280694	.3323861	.2313111	.0201739	1.307940	.2744867	.2857728
#1	2.443939	23.74381	2.366607	1.211636	23.28061	2.406942	2.437945
#2	2.423179	23.89705	2.368265	1.211179	22.71123	2.416288	2.426978
#3	2.435130	23.85523	2.358073	1.211556	23.16798	2.419754	2.439881

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**23.08066**	**4.951762**	**4.874230**	**4.835287**	**4.813035**	**4.602196**	**4.919833**
Stddev	.24308	.025505	.017650	.011927	.020384	.035683	.015977
%RSD	1.053176	.5150662	.3621120	.2466721	.4235205	.7753381	.3247409
#1	23.33615	4.922344	4.891729	4.842107	4.817067	4.643386	4.937713
#2	22.85226	4.967671	4.874529	4.842240	4.790936	4.582485	4.914826
#3	23.05358	4.965270	4.856432	4.821515	4.831102	4.580716	4.906959

Reviewed By:
On:
Inst Id :P4
LB :LB137573

Sample Name: CCV03 Acquired: 10/16/2025 14:45:10 Type: Unk
Method: 6010-200.7 NEW(v286) 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	**4.860221**	**4.715362**	**4.888939**
Stddev	.020845	.020585	.043759
%RSD	.4288949	.4365435	.8950611
#1	4.883546	4.710542	4.912871
#2	4.853705	4.697616	4.915513
#3	4.843412	4.737929	4.838434

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5434.941**	**86811.31**	**6543.817**	**4280.142**	**6272.659**
Stddev	11.624	293.50	21.091	12.232	9.441
%RSD	.2138836	.3380847	.3223055	.2857935	.1505032
#1	5423.535	86508.69	6568.117	4273.808	6270.292
#2	5434.514	87094.74	6533.066	4294.243	6264.627
#3	5446.772	86830.50	6530.267	4272.376	6283.058

Reviewed By:
On:
Inst Id :P4
LB :LB137573

Sample Name: CCB03 Acquired: 10/16/2025 14:49:13 Type: Unk
Method: 6010-200.7 NEW(v286) 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	-.001908	-.003691	-.000447	.0003758	.0000550	.0195294	-.004463
Stddev	.002075	.002551	.000660	.0017395	.0017039	.0030315	.000677
%RSD	108.7637	69.11897	147.8415	462.8664	3098.994	15.52286	15.17910
#1	.000393	-.001136	-.001125	.0019094	.0017121	.0169454	-.004646
#2	-.002478	-.006237	.000195	-.001514	.0001450	.0228664	-.005030
#3	-.003638	-.003699	-.000410	.000732	-.001692	.0187762	-.003713

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000028	-.000013	.0080687	.0001956	.0000761	.0000535	.0056826
Stddev	.000023	.000019	.0030822	.0000886	.0001418	.0002122	.0026935
%RSD	84.68042	142.9371	38.20025	45.29669	186.3194	396.3764	47.39824
#1	-.000001	-.000011	.0115386	.0001201	-.000016	-.000115	.0056621
#2	-.000037	-.000033	.0070194	.0001735	.000239	.000292	.0029995
#3	-.000045	.000004	.0056481	.0002931	.000005	-.000016	.0083863

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002731	-.007380	.0001440	-.000309	-.051102	-.000046	.0004214
Stddev	.0000817	.012948	.0001998	.000188	.015122	.004145	.0002540
%RSD	29.93365	175.4476	138.7833	60.85811	29.59201	9091.873	60.26731
#1	.0003669	.006395	.0003303	-.000099	-.067394	-.004200	.0005628
#2	.0002172	-.019301	-.000067	-.000462	-.037514	-.000027	.0005732
#3	.0002352	-.009234	.000169	-.000366	-.048398	.004090	.0001282

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.125060	.0054955	.0002743	-.000817	-.000244	.0089245	.0018499
Stddev	.008728	.0005704	.0002614	.000342	.000343	.0091590	.0013917
%RSD	6.979246	10.37962	95.30868	41.83429	140.3932	102.6278	75.23215
#1	-.130772	.0056080	.0005405	-.000425	-.000347	.0193507	.0033655
#2	-.129394	.0048772	.0002647	-.000977	.000138	.0021761	.0006293
#3	-.115013	.0060013	.0000178	-.001050	-.000523	.0052466	.0015549

Reviewed By:
On:
Inst Id :P4
LB :LB137573

Sample Name: CCB03 Acquired: 10/16/2025 14:49:13 Type: Unk
Method: 6010-200.7 NEW(v286) 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	.0089255	-.004130	.0000487
Stddev	.0031948	.001846	.0000501
%RSD	35.79421	44.69012	102.8164
#1	.0121414	-.002247	.0000978
#2	.0088829	-.005936	.0000505
#3	.0057522	-.004208	-.000002

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5520.272	89621.78	6643.522	4384.258	7117.678
Stddev	13.294	350.01	35.372	24.017	21.541
%RSD	.2408195	.3905393	.5324260	.5477949	.3026417
#1	5506.537	89995.35	6603.046	4410.531	7096.015
#2	5521.204	89568.55	6668.497	4363.434	7117.925
#3	5533.075	89301.43	6659.023	4378.809	7139.095

Reviewed By:
On:
Inst Id :P4
LB :LB137573

Sample Name: PB170107BL Acquired: 10/16/2025 14:55:33 Type: Unk
Method: 6010-200.7 NEW(v286) 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	**-.000489**	**.0170941**	**-.000793**	**.0004107**	**-.001935**	**.0106930**
Stddev	.001448	.0009067	.000768	.0030416	.001095	.0069828
%RSD	296.0082	5.304165	96.76436	740.5738	56.56931	65.30225
#1	.000114	.0181215	-.001528	-.002335	-.001813	.0160580
#2	.000560	.0164056	.000003	-.000112	-.000907	.0132232
#3	-.002142	.0167553	-.000855	.003680	-.003086	.0027979

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.003044**	**.0000804**	**-.000027**	**.0168550**	**.0000910**	**-.000061**
Stddev	.000376	.0000768	.000053	.0099128	.0000819	.000069
%RSD	12.33493	95.52848	197.5673	58.81217	90.05582	113.1236
#1	-.002674	.0001655	-.000044	.0240098	.0001378	-.000139
#2	-.003035	.0000592	.000032	.0210152	.0001388	-.000041
#3	-.003425	.0000164	-.000068	.0055400	-.000004	-.000004

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000019**	**-.003989**	**-.000111**	**-.014263**	**.0001416**	**-.000742**
Stddev	.000212	.006917	.001223	.038628	.0002159	.000149
%RSD	1102.491	173.4002	1101.686	270.8261	152.4366	20.04280
#1	-.000105	-.007237	.000186	.004619	.0000735	-.000614
#2	.000223	-.008683	-.001455	-.058699	-.000032	-.000706
#3	-.000176	.003954	.000937	.011292	.000383	-.000905

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.052210**	**-.001861**	**.0002748**	**-.171888**	**.0001396**	**-.000142**
Stddev	.008930	.001923	.0001535	.037377	.0007862	.000254
%RSD	17.10347	103.3165	55.85245	21.74509	563.3208	179.3062
#1	-.045132	-.003722	.0002840	-.162299	-.000666	.000113
#2	-.062243	-.001980	.0001169	-.213125	.000179	-.000395
#3	-.049256	.000118	.0004234	-.140239	.000905	-.000143

Reviewed By:
On:
Inst Id :P4
LB :LB137573

Sample Name: PB170107BL Acquired: 10/16/2025 14:55:33 Type: Unk
Method: 6010-200.7 NEW(v286) 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	-.000119	.0000366	.0046939	.0016336	F .0116632	-.002077
Stddev	.000271	.0006064	.0030698	.0005469	.0028573	.001651
%RSD	228.3365	1656.695	65.40046	33.48021	24.49880	79.46102
#1	-.000367	-.000663	.0073569	.0010036	.0084042	-.003268
#2	.000170	.000410	.0053885	.0019108	.0137382	-.000193
#3	-.000160	.000363	.0013363	.0019864	.0128472	-.002771

Elem	Sr4077
Units	ppm
Avg	.0000927
Stddev	.0001318
%RSD	142.2374
#1	.0001938
#2	.0001407
#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	5489.838	88806.69	6669.811	4224.330	7105.744
Stddev	1.068	509.47	51.909	10.288	4.488
%RSD	.0194538	.5736805	.7782733	.2435372	.0631603
#1	5488.750	89380.72	6647.178	4222.672	7100.563
#2	5489.878	88631.14	6729.194	4235.346	7108.255
#3	5490.885	88408.22	6633.060	4214.971	7108.415

Reviewed By:
On:
Inst Id :P4
LB :LB137573

Sample Name: PB170107BS Acquired: 10/16/2025 14:59:52 Type: Unk
Method: 6010-200.7 NEW(v286) 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	**.7280735**	**2.110912**	**.8676989**	**1.876324**	**.7581301**	**1.809207**
Stddev	.0031106	.024131	.0015596	.005078	.0012794	.009182
%RSD	.4272425	1.143140	.1797349	.2706325	.1687609	.5075141
#1	.7260785	2.128244	.8694996	1.875614	.7580822	1.799736
#2	.7316577	2.083352	.8668178	1.881719	.7568753	1.818070
#3	.7264844	2.121140	.8667793	1.871638	.7594328	1.809813

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1730738**	**.1877896**	**.1722387**	**.9254672**	**.3747959**	**.1768146**
Stddev	.0011679	.0001789	.0002131	.0032157	.0003018	.0001754
%RSD	.6747712	.0952733	.1237068	.3474625	.0805159	.0992169
#1	.1740626	.1879893	.1723251	.9219859	.3748727	.1769532
#2	.1717853	.1876440	.1723951	.9283263	.3750519	.1766174
#3	.1733735	.1877355	.1719960	.9260893	.3744632	.1768733

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2877361**	**2.729531**	**.1818990**	**1.836003**	**.4439573**	**.0698764**
Stddev	.0007617	.007483	.0013165	.032745	.0006943	.0002259
%RSD	.2647255	.2741660	.7237558	1.783481	.1563804	.3232682
#1	.2872735	2.731161	.1809449	1.812333	.4442954	.0699452
#2	.2886153	2.736065	.1813512	1.873373	.4444178	.0700598
#3	.2873196	2.721367	.1834010	1.822304	.4431588	.0696241

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.488943**	**.2705260**	**.1925494**	**8.498122**	**.2739720**	**.3805956**
Stddev	.021897	.0028528	.0008736	.014019	.0017707	.0008754
%RSD	.8797555	1.054534	.4536945	.1649662	.6463201	.2300186
#1	2.488868	.2730784	.1930645	8.482009	.2750942	.3805956
#2	2.510876	.2710531	.1930429	8.507524	.2719307	.3814711
#3	2.467083	.2674464	.1915408	8.504834	.2748912	.3797202

Reviewed By:
On:
Inst Id :P4
LB :LB137573

Sample Name: PB170107BS Acquired: 10/16/2025 14:59:52 Type: Unk
Method: 6010-200.7 NEW(v286) 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	.6273159	.1759007	.7880030	5.140923	F .0139371	.1713417
Stddev	.0014385	.0018691	.0059190	.003987	.0024923	.0031306
%RSD	.2293075	1.062593	.7511355	.0775565	17.88261	1.827126
#1	.6257621	.1746820	.7946420	5.144953	.0168145	.1679868
#2	.6286013	.1749675	.7860897	5.136981	.0125416	.1718532
#3	.6275842	.1780527	.7832774	5.140835	.0124552	.1741851

Elem	Sr4077
Units	ppm
Avg	.1746624
Stddev	.0005409
%RSD	.3096806
#1	.1742928
#2	.1744111
#3	.1752832

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5548.114	89299.79	6833.996	4271.144	6893.501
Stddev	9.489	312.42	33.280	11.331	11.008
%RSD	.1710241	.3498541	.4869728	.2652930	.1596803
#1	5549.206	89660.49	6866.319	4269.023	6890.532
#2	5538.126	89114.22	6835.833	4261.022	6884.282
#3	5557.009	89124.65	6799.835	4283.385	6905.689

Reviewed By:
On:
Inst Id :P4
LB :LB137573

Sample Name: PB170112BL Acquired: 10/16/2025 15:03:55 Type: Unk
Method: 6010-200.7 NEW(v286) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.001233**	**.0158151**	**-.000566**	**-.001270**	**-.001453**	**-.006092**	**-.006649**
Stddev	.000594	.0020291	.000621	.003116	.001944	.004950	.002039
%RSD	48.22740	12.82996	109.6999	245.3688	133.7442	81.25502	30.66840
#1	-.001843	.0178719	-.000629	.001894	-.003295	-.004448	-.007488
#2	-.000655	.0157586	-.001153	-.001368	-.001644	-.011655	-.004325
#3	-.001200	.0138149	.000084	-.004337	.000579	-.002173	-.008136

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000028**	**-.000011**	**.0029069**	**.0001644**	**.0000037**	**.0000276**	**-.003482**
Stddev	.0000430	.000031	.0045943	.0002110	.0001238	.0004083	.005674
%RSD	1523.345	293.1520	158.0477	128.3625	3336.109	1478.969	162.9398
#1	.0000305	-.000044	-.000851	.0003902	-.000060	.0004918	-.002780
#2	.0000246	.000016	.008029	.0001307	-.000075	-.000276	-.009475
#3	-.000047	-.000004	.001543	-.000028	.000146	-.000133	.001808

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0001675**	**-.006884**	**-.000157**	**-.000427**	**-.057110**	**.0007666**	**.0001101**
Stddev	.0003366	.002167	.000338	.000374	.008502	.0016569	.0000964
%RSD	201.0029	31.47754	215.0093	87.51817	14.88632	216.1369	87.52405
#1	.0002543	-.009386	-.000523	-.000553	-.062350	-.000842	.0002007
#2	.0004521	-.005633	.000143	-.000721	-.047301	.000674	.0001207
#3	-.000204	-.005633	-.000092	-.000007	-.061680	.002468	.0000089

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.172477**	**-.000246**	**-.000162**	**-.001015**	**-.000679**	**-.004465**	**.0013936**
Stddev	.017710	.000608	.000104	.000472	.001340	.004083	.0018377
%RSD	10.26788	246.6196	63.78499	46.50518	197.4474	91.44167	131.8676
#1	-.156669	-.000835	-.000116	-.001559	-.002012	-.001009	.0004842
#2	-.169146	-.000284	-.000281	-.000710	-.000691	-.003416	.0001879
#3	-.191615	.000379	-.000090	-.000777	.000668	-.008970	.0035087

Reviewed By:
On:
Inst Id :P4
LB :LB137573

Sample Name: PB170112BL Acquired: 10/16/2025 15:03:55 Type: Unk
Method: 6010-200.7 NEW(v286) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0093226	-.001701	-.000010
Stddev	.0011037	.001370	.000049
%RSD	11.83858	80.54219	496.9221
#1	.0080639	-.000889	-.000058
#2	.0097793	-.003282	-.000012
#3	.0101246	-.000931	.000040

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5543.699	89698.57	6491.923	4408.667	7138.642
Stddev	6.937	204.90	33.664	11.232	11.076
%RSD	.1251275	.2284310	.5185594	.2547760	.1551598
#1	5550.226	89481.20	6530.789	4414.078	7141.535
#2	5544.456	89726.33	6471.884	4395.753	7147.985
#3	5536.414	89888.17	6473.095	4416.170	7126.406

Reviewed By:
On:
Inst Id :P4
LB :LB137573

Sample Name: PB170112BS Acquired: 10/16/2025 15:08:14 Type: Unk
Method: 6010-200.7 NEW(v286) 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	**.7078518**	**2.059196**	**.8421986**	**1.818916**	**.7545211**	**1.809304**
Stddev	.0016856	.043535	.0002765	.004433	.0008980	.004539
%RSD	.2381343	2.114180	.0328272	.2437075	.1190201	.2508777
#1	.7089514	2.055493	.8420678	1.815699	.7536050	1.813272
#2	.7059111	2.017630	.8420118	1.817077	.7545583	1.804354
#3	.7086929	2.104464	.8425162	1.823972	.7553999	1.810286

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1784402**	**.1893882**	**.1663857**	**.9161428**	**.3565202**	**.1717981**
Stddev	.0007618	.0003922	.0002923	.0084623	.0007795	.0001407
%RSD	.4269347	.2070900	.1756685	.9236922	.2186300	.0818674
#1	.1788121	.1893397	.1665416	.9082361	.3570738	.1719337
#2	.1789446	.1890226	.1660485	.9151239	.3556289	.1718078
#3	.1775638	.1898024	.1665669	.9250685	.3568580	.1716529

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2794431**	**2.633394**	**.1888020**	**1.834451**	**.4298555**	**.0673356**
Stddev	.0004266	.004310	.0017643	.027901	.0005835	.0002844
%RSD	.1526647	.1636662	.9344820	1.520943	.1357503	.4223902
#1	.2791362	2.635083	.1908234	1.864672	.4296581	.0675861
#2	.2792629	2.628495	.1875719	1.829010	.4293962	.0673943
#3	.2799302	2.636604	.1880107	1.809672	.4305121	.0670264

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.594873**	**.2671840**	**.1851235**	**8.190658**	**.2765981**	**.3745723**
Stddev	.026428	.0008589	.0003549	.012507	.0012875	.0008637
%RSD	1.018465	.3214574	.1917194	.1526941	.4654960	.2305903
#1	2.624917	.2662517	.1849348	8.176529	.2755901	.3750188
#2	2.575221	.2679430	.1855330	8.195135	.2761557	.3735767
#3	2.584480	.2673573	.1849028	8.200310	.2780486	.3751214

Reviewed By:
On:
Inst Id :P4
LB :LB137573

Sample Name: PB170112BS Acquired: 10/16/2025 15:08:14 Type: Unk
Method: 6010-200.7 NEW(v286) 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	**.6192841**	**.1815903**	**.7585949**	**5.156218**	F **.0045077**	**.1844060**
Stddev	.0012237	.0010936	.0119391	.012789	.0014085	.0021918
%RSD	.1976005	.6022065	1.573843	.2480278	31.24787	1.188577
#1	.6179409	.1804673	.7455996	5.141451	.0037740	.1826418
#2	.6203357	.1816518	.7611074	5.163693	.0036174	.1868596
#3	.6195756	.1826518	.7690779	5.163510	.0061316	.1837166

Elem	Sr4077
Units	ppm
Avg	**.1790762**
Stddev	.0004375
%RSD	.2443263
#1	.1790353
#2	.1786605
#3	.1795327

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5632.415**	**91550.89**	**6620.335**	**4502.729**	**6995.445**
Stddev	2.357	300.77	22.027	19.312	2.855
%RSD	.0418420	.3285295	.3327209	.4288955	.0408149
#1	5629.730	91322.74	6622.093	4487.098	6992.670
#2	5634.142	91891.73	6641.430	4524.318	6995.290
#3	5633.374	91438.20	6597.481	4496.772	6998.374

Reviewed By:
On:
Inst Id :P4
LB :LB137573

Sample Name: PB170081TB Acquired: 10/16/2025 15:12:16 Type: Unk
Method: 6010-200.7 NEW(v286) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.002930**	**.0168580**	**-.000307**	**.0045524**	**.0019918**	**.0150765**	**-.004499**
Stddev	.000724	.0037493	.000270	.0029485	.0005997	.0039128	.000493
%RSD	24.69589	22.24045	88.10939	64.76847	30.10734	25.95297	10.94824
#1	-.002104	.0177024	-.000342	.0062126	.0013061	.0195385	-.005003
#2	-.003234	.0201131	-.000558	.0011481	.0024178	.0134605	-.004476
#3	-.003451	.0127585	-.000021	.0062966	.0022517	.0122306	-.004019

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000081**	**-.000073**	**.0257982**	**.0117437**	**-.000333**	**.0003439**	**.0348326**
Stddev	.000020	.000058	.0098627	.0004098	.000152	.0003620	.0027014
%RSD	24.15878	79.96653	38.23018	3.489771	45.52213	105.2645	7.755456
#1	-.000096	-.000006	.0148921	.0113351	-.000176	.0007315	.0319572
#2	-.000089	-.000109	.0340913	.0121548	-.000478	.0002858	.0373175
#3	-.000059	-.000105	.0284112	.0117411	-.000346	.0000145	.0352232

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0010063**	**-.013862**	**.0020676**	**-.000461**	**299.8017**	**-.002431**	**.0010344**
Stddev	.0004388	.017698	.0002676	.000621	1.1969	.002662	.0000384
%RSD	43.60134	127.6794	12.94197	134.5862	.3992323	109.4804	3.711732
#1	.0005347	-.034280	.0022478	-.000904	300.1805	.000073	.0010126
#2	.0014023	-.004389	.0021949	-.000727	298.4613	-.002141	.0010787
#3	.0010819	-.002916	.0017601	.000248	300.7634	-.005226	.0010118

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.204954**	**-.002276**	**.0007142**	**-.018313**	**-.000035**	**.0123912**	**.0081392**
Stddev	.041251	.000920	.0001952	.000611	.000354	.0011892	.0008312
%RSD	20.12699	40.41146	27.33309	3.336922	1006.062	9.597096	10.21222
#1	-.221982	-.001233	.0006733	-.017632	.000274	.0126411	.0077744
#2	-.234965	-.002972	.0009267	-.018493	-.000421	.0110969	.0075527
#3	-.157915	-.002622	.0005427	-.018814	.000041	.0134356	.0090904

Reviewed By:
On:
Inst Id :P4
LB :LB137573

Sample Name: PB170081TB Acquired: 10/16/2025 15:12:16 Type: Unk
Method: 6010-200.7 NEW(v286) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0091855	-.008405	.0000543
Stddev	.0013951	.002002	.0001443
%RSD	15.18805	23.82312	265.7324
#1	.0094897	-.009906	.0002157
#2	.0076634	-.009176	-.000062
#3	.0104034	-.006131	.000009

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5102.647	82922.43	6570.417	4031.440	6023.568
Stddev	15.236	448.19	15.637	6.350	21.420
%RSD	.2985896	.5404945	.2379855	.1575012	.3555976
#1	5120.134	83419.54	6553.815	4037.995	6046.773
#2	5092.236	82549.23	6572.570	4025.318	6004.554
#3	5095.570	82798.51	6584.865	4031.006	6019.376

Reviewed By:
On:
Inst Id :P4
LB :LB137573

Sample Name: Q3340-05 Acquired: 10/16/2025 15:16:44 Type: Unk
Method: 6010-200.7 NEW(v286) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.005508**	**.0159157**	**-.000368**	**.0037535**	**.0015469**	**.0642640**	**.0518996**
Stddev	.002319	.0031965	.001037	.0005891	.0005690	.0057082	.0008648
%RSD	42.10696	20.08390	282.2340	15.69431	36.78679	8.882490	1.666325
#1	-.007607	.0130447	.000148	.0042268	.0017579	.0656004	.0523635
#2	-.005899	.0193601	-.001562	.0030938	.0019803	.0691855	.0509018
#3	-.003018	.0153423	.000311	.0039399	.0009025	.0580061	.0524334

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000111**	**-.000006**	**162.7388**	**.0033413**	**-.000395**	**.0163648**	**-.002578**
Stddev	.000099	.000018	.8734	.0001385	.000172	.0000981	.004414
%RSD	88.85681	272.1676	.5366886	4.143639	43.46023	.5992080	171.1972
#1	-.000110	-.000000	162.4928	.0031834	-.000582	.0164542	-.001767
#2	-.000013	.000007	162.0147	.0033985	-.000243	.0163803	-.007341
#3	-.000211	-.000026	163.7088	.0034420	-.000361	.0162599	.001374

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0006265**	**.0662349**	**-.000166**	**-.000454**	**309.2428**	**-.000504**	**.0044652**
Stddev	.0004140	.0205283	.000170	.000275	2.7212	.000948	.0002399
%RSD	66.08227	30.99320	102.1646	60.53426	.8799544	188.0151	5.372947
#1	.0002712	.0600179	-.000361	-.000747	311.3044	-.000754	.0041945
#2	.0010811	.0495337	-.000086	-.000203	306.1584	-.001302	.0046517
#3	.0005272	.0891531	-.000051	-.000410	310.2656	.000544	.0045494

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.913662**	**.0130874**	**.0013524**	**-.019948**	**-.006653**	**3.935475**	**.0150677**
Stddev	.041646	.0007054	.0003615	.000525	.001247	.028254	.0004305
%RSD	.8475592	5.389901	26.73169	2.633594	18.74821	.7179228	2.857134
#1	4.914089	.0127033	.0009406	-.020503	-.005304	3.941707	.0155004
#2	4.955094	.0126575	.0014990	-.019458	-.007764	3.960091	.0146394
#3	4.871804	.0139015	.0016175	-.019884	-.006893	3.904625	.0150632

Reviewed By:
On:
Inst Id :P4
LB :LB137573

Sample Name: Q3340-05 Acquired: 10/16/2025 15:16:44 Type: Unk
Method: 6010-200.7 NEW(v286) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	3.566122	-.029969	1.376464
Stddev	.023677	.000708	.013625
%RSD	.6639377	2.364058	.9898478
#1	3.544173	-.030786	1.373688
#2	3.591213	-.029597	1.364441
#3	3.562981	-.029524	1.391263

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5055.602	83045.19	6784.855	3916.213	5851.480
Stddev	12.023	361.80	49.204	5.559	17.542
%RSD	.2378225	.4356655	.7252077	.1419368	.2997953
#1	5069.483	83035.71	6801.895	3917.488	5871.559
#2	5048.855	82688.22	6823.274	3910.128	5839.120
#3	5048.467	83411.63	6729.395	3921.023	5843.763

Reviewed By:
On:
Inst Id :P4
LB :LB137573

Sample Name: Q3340-06 Acquired: 10/16/2025 15:21:08 Type: Unk
Method: 6010-200.7 NEW(v286) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.004530**	**.0193508**	**-.000308**	**-.000718**	**.0036703**	**.1375566**	**.0847811**
Stddev	.000247	.0012551	.000500	.001230	.0017016	.0041189	.0019261
%RSD	5.450494	6.485783	162.4938	171.3502	46.36231	2.994370	2.271820
#1	-.004328	.0202208	-.000409	-.000234	.0051174	.1332363	.0832944
#2	-.004805	.0199196	-.000749	.000197	.0017957	.1379942	.0840920
#3	-.004456	.0179121	.000235	-.002116	.0040979	.1414392	.0869570

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000124**	**-.000031**	**156.0982**	**.0048685**	**-.000420**	**.0043114**	**.0105776**
Stddev	.000051	.000050	.9852	.0002457	.000136	.0000914	.0042126
%RSD	40.99233	159.6567	.6311121	5.047740	32.41212	2.119594	39.82579
#1	-.000142	-.000059	156.0351	.0051117	-.000263	.0044074	.0093981
#2	-.000067	-.000062	155.1461	.0046203	-.000502	.0043012	.0070805
#3	-.000163	.000027	157.1134	.0048734	-.000496	.0042255	.0152543

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0021275**	**.0372023**	**-.000468**	**-.000402**	**311.0748**	**.0003985**	**.0053278**
Stddev	.0006960	.0289273	.000226	.000239	5.4654	.0029329	.0000356
%RSD	32.71626	77.75666	48.35175	59.41362	1.756939	735.8920	.6683812
#1	.0025225	.0533506	-.000386	-.000128	316.8470	.0037782	.0052952
#2	.0025362	.0544503	-.000723	-.000511	310.3981	-.001105	.0053224
#3	.0013238	.0038060	-.000294	-.000567	305.9792	-.001478	.0053658

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**5.499459**	**.0105421**	**.0018303**	**-.019791**	**-.006256**	**2.081774**	**.0182510**
Stddev	.024542	.0004496	.0001908	.000589	.000724	.012307	.0008675
%RSD	.4462576	4.264306	10.42670	2.976793	11.57145	.5911688	4.753342
#1	5.526706	.0109601	.0019405	-.020355	-.005896	2.077883	.0180300
#2	5.479089	.0100665	.0019405	-.019840	-.005783	2.071883	.0175153
#3	5.492583	.0105995	.0016099	-.019179	-.007089	2.095556	.0192076

Reviewed By:
On:
Inst Id :P4
LB :LB137573

Sample Name: Q3340-06 Acquired: 10/16/2025 15:21:08 Type: Unk
Method: 6010-200.7 NEW(v286) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	**3.426808**	**-.032901**	**1.788922**
Stddev	.039520	.000522	.016584
%RSD	1.153255	1.586625	.9270446
#1	3.467363	-.032887	1.790494
#2	3.424647	-.033430	1.771608
#3	3.388412	-.032386	1.804664

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4970.199**	**80479.38**	**6609.389**	**3873.102**	**5755.975**
Stddev	36.196	271.05	32.179	19.280	48.563
%RSD	.7282651	.3367948	.4868664	.4977883	.8436889
#1	4955.078	80787.83	6624.210	3894.799	5737.975
#2	4944.015	80371.11	6631.487	3857.934	5718.983
#3	5011.504	80279.20	6572.470	3866.574	5810.968

Reviewed By:
On:
Inst Id :P4
LB :LB137573

Sample Name: Q3340-07 Acquired: 10/16/2025 15:25:32 Type: Unk
Method: 6010-200.7 NEW(v286) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.003864**	**.0156646**	**-.001067**	**.0042019**	**.0052957**	**.0281216**	**.0828901**
Stddev	.000860	.0017928	.000904	.0024899	.0023448	.0023523	.0007579
%RSD	22.24721	11.44507	84.76717	59.25810	44.27793	8.364840	.9144037
#1	-.002948	.0138603	-.001249	.0049647	.0041720	.0268134	.0822627
#2	-.004653	.0156877	-.000085	.0062212	.0037242	.0308372	.0826754
#3	-.003990	.0174457	-.001866	.0014198	.0079909	.0267142	.0837323

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000227**	**-.000058**	**150.4534**	**.0030882**	**-.000389**	**.0021298**	**.0006202**
Stddev	.000085	.000026	.4139	.0001421	.000079	.0005489	.0067635
%RSD	37.57956	45.63790	.2751184	4.602075	20.25106	25.77055	1090.558
#1	-.000131	-.000088	150.1740	.0030425	-.000378	.0027631	-.001869
#2	-.000293	-.000045	150.2572	.0032476	-.000473	.0017941	.008276
#3	-.000258	-.000040	150.9289	.0029746	-.000317	.0018321	-.004546

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0027170**	**.9952910**	**.0004704**	**-.000857**	**339.0245**	**.0024429**	**.0056796**
Stddev	.0004865	.0257772	.0005640	.000230	2.2169	.0010287	.0003635
%RSD	17.90621	2.589914	119.9034	26.81856	.6538994	42.11156	6.399544
#1	.0030966	.9989166	.0008184	-.000685	341.1803	.0035121	.0060403
#2	.0028859	1.019063	-.000180	-.000768	339.1418	.0014601	.0053135
#3	.0021686	.967893	.000773	-.001118	336.7513	.0023566	.0056849

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.027623**	**.0215188**	**.0018258**	**-.019033**	**-.004943**	**5.302641**	**.0040736**
Stddev	.041879	.0004531	.0002833	.000188	.001320	.056408	.0010474
%RSD	2.065444	2.105657	15.51741	.9899714	26.69759	1.063765	25.71063
#1	2.037535	.0209956	.0015054	-.018816	-.003460	5.354418	.0031394
#2	2.063656	.0217762	.0020433	-.019125	-.005988	5.310975	.0038758
#3	1.981676	.0217845	.0019287	-.019158	-.005382	5.242530	.0052058

Reviewed By:
On:
Inst Id :P4
LB :LB137573

Sample Name: Q3340-07 Acquired: 10/16/2025 15:25:32 Type: Unk
Method: 6010-200.7 NEW(v286) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	**4.094519**	**-.031446**	**1.263275**
Stddev	.023108	.001219	.003935
%RSD	.5643603	3.877241	.3115192
#1	4.108666	-.031401	1.261859
#2	4.107038	-.032687	1.260244
#3	4.067853	-.030250	1.267723

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4970.328**	**81554.73**	**6664.151**	**3957.068**	**5749.963**
Stddev	4.287	176.83	66.227	18.533	.715
%RSD	.0862614	.2168237	.9937771	.4683473	.0124341
#1	4970.726	81718.60	6722.854	3952.870	5749.880
#2	4965.856	81578.30	6677.243	3940.994	5749.294
#3	4974.403	81367.30	6592.356	3977.339	5750.716

Reviewed By:
On:
Inst Id :P4
LB :LB137573

Sample Name: Q3342-02 Acquired: 10/16/2025 15:29:57 Type: Unk
Method: 6010-200.7 NEW(v286) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.003881**	**.0161976**	**.0042706**	**.0021984**	**.0016740**	**.0537350**	**.1439566**
Stddev	.000744	.0033477	.0008676	.0059422	.0008379	.0106035	.0013150
%RSD	19.16386	20.66780	20.31579	270.2995	50.05405	19.73301	.9134505
#1	-.004624	.0130288	.0038507	.0048114	.0024535	.0484147	.1452721
#2	-.003884	.0196993	.0052682	.0063863	.0007879	.0659453	.1439558
#3	-.003136	.0158645	.0036928	-.004603	.0017806	.0468449	.1426421

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000159**	**.0011699**	**155.7706**	**.0016772**	**.0003424**	**.0013726**	**.0090238**
Stddev	.000027	.0000447	.6688	.0003644	.0001505	.0004103	.0094030
%RSD	16.82466	3.824396	.4293365	21.72518	43.94276	29.89056	104.2027
#1	-.000133	.0011327	156.2041	.0014298	.0003498	.0015496	-.001823
#2	-.000159	.0011573	156.1074	.0020956	.0004890	.0016647	.014035
#3	-.000186	.0012195	155.0004	.0015062	.0001884	.0009035	.014860

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1423676**	**3.817703**	**.0014031**	**-.000721**	**340.7604**	**-.000881**	**.2277999**
Stddev	.0006724	.053005	.0002900	.000362	2.7161	.002442	.0011493
%RSD	.4722975	1.388408	20.66933	50.25101	.7970618	277.3271	.5045181
#1	.1417881	3.823923	.0010684	-.001131	337.6262	-.000340	.2277661
#2	.1431048	3.867325	.0015794	-.000589	342.2303	-.003548	.2266679
#3	.1422099	3.761863	.0015615	-.000443	342.4249	.001246	.2289658

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.725759**	**.0203151**	**.0010870**	**-.019464**	**-.005491**	**4.811656**	**.0216647**
Stddev	.052572	.0005083	.0001921	.000689	.002067	.068196	.0004256
%RSD	1.928697	2.502238	17.67323	3.539698	37.64052	1.417300	1.964347
#1	2.694916	.0205162	.0012371	-.019778	-.003302	4.769499	.0211829
#2	2.786461	.0206922	.0011534	-.019940	-.007409	4.890334	.0219893
#3	2.695900	.0197370	.0008705	-.018674	-.005761	4.775134	.0218218

Reviewed By:
On:
Inst Id :P4
LB :LB137573

Sample Name: Q3342-02 Acquired: 10/16/2025 15:29:57 Type: Unk
Method: 6010-200.7 NEW(v286) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	1.940381	-.032884	.7570666
Stddev	.016693	.002581	.0023229
%RSD	.8603179	7.849982	.3068241
#1	1.933580	-.031984	.7577329
#2	1.959402	-.030873	.7589836
#3	1.928162	-.035794	.7544834

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5041.640	82719.25	6570.290	4010.493	5805.990
Stddev	19.188	313.53	43.024	3.164	24.666
%RSD	.3805944	.3790349	.6548287	.0788995	.4248312
#1	5021.077	82905.11	6522.884	4010.847	5784.210
#2	5044.776	82357.25	6606.861	4013.466	5800.986
#3	5059.067	82895.38	6581.126	4007.167	5832.774

Reviewed By:
On:
Inst Id :P4
LB :LB137573

Sample Name: Q3343-04 Acquired: 10/16/2025 15:34:21 Type: Unk
Method: 6010-200.7 NEW(v286) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.005222**	**.0207620**	**.0412531**	**.0089990**	**.0029177**	**.0644165**	**.1594398**
Stddev	.002520	.0033411	.0003212	.0027032	.0010299	.0041425	.0009410
%RSD	48.24843	16.09228	.7785695	30.03840	35.30007	6.430830	.5901714
#1	-.007777	.0169792	.0411934	.0075280	.0024079	.0662551	.1583709
#2	-.005150	.0219972	.0416000	.0073504	.0022421	.0596729	.1601431
#3	-.002740	.0233096	.0409660	.0121186	.0041031	.0673214	.1598054

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000101**	**.0003344**	**37.81540**	**.0011660**	**.0000715**	**.0067879**	**.0178459**
Stddev	.000044	.0001343	.10606	.0001016	.0002260	.0000836	.0053514
%RSD	43.47066	40.15062	.2804600	8.708683	316.0814	1.231767	29.98663
#1	-.000116	.0003321	37.80891	.0011781	.0001434	.0067866	.0230897
#2	-.000051	.0002012	37.71274	.0012610	.0002528	.0067049	.0123931
#3	-.000134	.0004697	37.92455	.0010590	-.000182	.0068721	.0180550

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0435066**	**.6720649**	**.0005969**	**-.000792**	**376.5942**	**-.003929**	**.0733281**
Stddev	.0005258	.0219530	.0002680	.001042	5.2255	.003996	.0004459
%RSD	1.208640	3.266506	44.89353	131.4891	1.387576	101.7208	.6080383
#1	.0429029	.6523252	.0008412	-.001788	382.6265	-.008488	.0736550
#2	.0438645	.6957077	.0003103	.000290	373.6987	-.001033	.0735092
#3	.0437524	.6681617	.0006392	-.000880	373.4573	-.002265	.0728202

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**7.494046**	**.0211338**	**.0005764**	**-.018672**	**.0009026**	**.7959297**	**.0199555**
Stddev	.061485	.0005724	.0000695	.000118	.0016561	.0062882	.0011606
%RSD	.8204469	2.708346	12.05111	.6324888	183.4746	.7900491	5.816007
#1	7.554251	.0217471	.0005308	-.018783	-.001007	.8021981	.0208123
#2	7.431357	.0206138	.0005421	-.018684	.001949	.7896218	.0204195
#3	7.496530	.0210407	.0006563	-.018548	.001766	.7959691	.0186346

Reviewed By:
On:
Inst Id :P4
LB :LB137573

Sample Name: Q3343-04 Acquired: 10/16/2025 15:34:21 Type: Unk
Method: 6010-200.7 NEW(v286) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.9028443	-.013902	.2719786
Stddev	.0042065	.002605	.0011819
%RSD	.4659132	18.73798	.4345611
#1	.9074407	-.013598	.2728152
#2	.8991862	-.011463	.2706265
#3	.9019061	-.016646	.2724941

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4950.497	79616.76	6455.536	3877.750	5703.025
Stddev	8.019	322.54	19.151	7.103	3.462
%RSD	.1619855	.4051200	.2966538	.1831612	.0606977
#1	4954.524	79743.71	6476.627	3881.593	5701.646
#2	4941.263	79856.52	6439.234	3869.554	5700.466
#3	4955.705	79250.06	6450.748	3882.104	5706.964

Reviewed By:
On:
Inst Id :P4
LB :LB137573

Sample Name: CCV04 Acquired: 10/16/2025 15:38:45 Type: Unk
Method: 6010-200.7 NEW(v286) 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	**4.881677**	**5.269197**	**4.763416**	**4.969268**	**4.915230**	**9.612812**	**9.375333**
Stddev	.025940	.310463	.009313	.044130	.011310	.012634	.061690
%RSD	.5313752	5.892033	.1955178	.8880604	.2300982	.1314244	.6580056
#1	4.900848	5.590812	4.766691	5.000133	4.914043	9.614578	9.440378
#2	4.852160	4.971240	4.752908	4.918722	4.904561	9.599388	9.367963
#3	4.892021	5.245539	4.770650	4.988950	4.927087	9.624469	9.317659

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2425495**	**2.369360**	**23.88690**	**.9749256**	**2.376237**	**1.215664**	**4.838333**
Stddev	.0023992	.004729	.05153	.0012930	.004678	.001531	.064660
%RSD	.9891725	.1995790	.2157215	.1326221	.1968844	.1259605	1.336405
#1	.2401586	2.370994	23.92548	.9734396	2.377038	1.214808	4.895772
#2	.2425329	2.364031	23.90686	.9755430	2.371210	1.214752	4.850924
#3	.2449570	2.373055	23.82838	.9757941	2.380464	1.217432	4.768304

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.371104**	**23.89292**	**2.374056**	**1.220865**	**24.32648**	**2.390473**	**2.465450**
Stddev	.007420	.08686	.003147	.003150	.45330	.005237	.000906
%RSD	.3129337	.3635191	.1325725	.2580425	1.863389	.2190632	.0367664
#1	2.378811	23.79337	2.375315	1.217373	24.77171	2.392784	2.466438
#2	2.370490	23.93216	2.370474	1.223493	24.34220	2.394157	2.465255
#3	2.364009	23.95323	2.376378	1.221729	23.86552	2.384479	2.464657

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**24.13709**	**4.827405**	**4.902945**	**4.801574**	**4.748859**	**4.753112**	**4.929915**
Stddev	.32347	.048790	.020216	.025497	.020552	.042172	.036139
%RSD	1.340121	1.010689	.4123304	.5310122	.4327836	.8872452	.7330588
#1	24.43807	4.775065	4.914830	4.820042	4.770371	4.801316	4.941842
#2	24.17816	4.835522	4.879603	4.772483	4.746782	4.734984	4.889319
#3	23.79506	4.871627	4.914403	4.812197	4.729424	4.723035	4.958583

Reviewed By:
On:
Inst Id :P4
LB :LB137573

Sample Name: CCV04 Acquired: 10/16/2025 15:38:45 Type: Unk
Method: 6010-200.7 NEW(v286) 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	**4.858425**	**4.688776**	**4.759156**
Stddev	.066798	.030636	.045528
%RSD	1.374884	.6533850	.9566311
#1	4.916992	4.720010	4.719384
#2	4.785675	4.687542	4.749269
#3	4.872608	4.658776	4.808814

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5359.692**	**85904.93**	**6690.218**	**4119.212**	**6221.862**
Stddev	14.579	125.14	60.812	10.864	16.448
%RSD	.2720153	.1456682	.9089634	.2637321	.2643555
#1	5363.708	86025.57	6748.950	4110.223	6221.301
#2	5371.842	85775.74	6694.184	4131.284	6238.583
#3	5343.526	85913.46	6627.521	4116.129	6205.702

Reviewed By:
On:
Inst Id :P4
LB :LB137573

Sample Name: CCB04 Acquired: 10/16/2025 15:43:37 Type: Unk
Method: 6010-200.7 NEW(v286) 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	**-.000344**	**.0158075**	**-.000759**	**.0010465**	**-.000703**	**.0324293**
Stddev	.001374	.0011654	.000767	.0017357	.000442	.0047276
%RSD	399.4554	7.372238	100.9997	165.8643	62.91610	14.57829
#1	-.001518	.0169509	-.001641	.0029271	-.000259	.0372337
#2	.001168	.0158504	-.000248	-.000494	-.001143	.0322716
#3	-.000682	.0146213	-.000388	.000706	-.000707	.0277824

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.004411**	**.0000177**	**-.000014**	**.0069792**	**.0001835**	**.0000372**
Stddev	.001125	.0000315	.000129	.0182192	.0005884	.0001635
%RSD	25.49809	178.1930	907.0539	261.0489	320.5882	438.9697
#1	-.004046	.0000061	-.000040	-.013973	.0001185	.0001259
#2	-.005674	-.000006	.000126	.015815	-.000370	-.000151
#3	-.003515	.000053	-.000129	.019096	.000802	.000137

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000742**	**.0211355**	**.0002978**	**-.006169**	**-.000233**	**-.000148**
Stddev	.0001074	.0107603	.0000952	.006055	.000110	.000088
%RSD	144.7962	50.91114	31.98744	98.15059	46.99957	59.78035
#1	-.000045	.0256896	.0002833	-.003416	-.000236	-.000213
#2	.000106	.0088470	.0002105	-.013111	-.000342	-.000184
#3	.000162	.0288699	.0003994	-.001979	-.000123	-.000047

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2887064**	**.0009616**	**.0055487**	**.2395588**	**.0030674**	**-.000237**
Stddev	.0184569	.0005338	.0005782	.0320633	.0008523	.000184
%RSD	6.392955	55.51489	10.42040	13.38433	27.78551	77.87804
#1	.2674634	.0004343	.0062124	.2511627	.0034840	-.000345
#2	.3008135	.0015017	.0052796	.2033090	.0036313	-.000024
#3	.2978422	.0009488	.0051542	.2642046	.0020870	-.000342

Reviewed By:
On:
Inst Id :P4
LB :LB137573

Sample Name: CCB04 Acquired: 10/16/2025 15:43:37 Type: Unk
Method: 6010-200.7 NEW(v286) 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	-.000316	.0003450	-.005351	.0022477	F .0134845	F .0103759
Stddev	.000491	.0014539	.003971	.0008450	.0003404	.0001937
%RSD	155.2548	421.4240	74.20354	37.59507	2.524395	1.867320
#1	.000249	.0006576	-.007258	.0023965	.0134065	.0104158
#2	-.000636	.0016173	-.008010	.0030084	.0138572	.0105466
#3	-.000561	-.001240	-.000787	.0013381	.0131899	.0101653

Elem	Sr4077
Units	ppm
Avg	.0000128
Stddev	.0001183
%RSD	924.9009
#1	-.000003
#2	.000138
#3	-.000097

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5502.111	89550.12	6766.389	4354.301	7103.733
Stddev	14.794	169.60	43.643	16.046	20.463
%RSD	.2688751	.1893879	.6449985	.3685087	.2880607
#1	5507.306	89363.38	6756.188	4336.691	7105.335
#2	5513.606	89694.58	6728.749	4368.095	7123.349
#3	5485.420	89592.38	6814.229	4358.118	7082.517

Reviewed By:
On:
Inst Id :P4
LB :LB137573

Sample Name: Q3345-02 Acquired: 10/16/2025 15:47:56 Type: Unk
Method: 6010-200.7 NEW(v286) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.003311	.0195173	.0466404	.0066923	.0017830	.0058228	.3645036
Stddev	.002625	.0040239	.0006706	.0027823	.0007282	.0122295	.0018871
%RSD	79.28044	20.61691	1.437732	41.57401	40.84071	210.0294	.5177265
#1	-.004544	.0190206	.0474147	.0096652	.0025821	-.006615	.3638572
#2	-.000296	.0237665	.0462599	.0062605	.0011568	.006250	.3666290
#3	-.005092	.0157649	.0462467	.0041512	.0016102	.017833	.3630246

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000175	.0013358	190.6393	.0008793	-.000256	.0062448	.0838144
Stddev	.000061	.0000498	1.1274	.0003404	.000243	.0004903	.0005899
%RSD	34.67870	3.726352	.5913593	38.71669	95.21048	7.850752	.7037531
#1	-.000127	.0013932	189.8953	.0006449	-.000060	.0056821	.0844954
#2	-.000155	.0013051	191.9364	.0012698	-.000528	.0065795	.0834672
#3	-.000244	.0013091	190.0862	.0007232	-.000179	.0064730	.0834805

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0321196	7.425717	.0006413	-.001105	383.4487	-.002594	.0562669
Stddev	.0009552	.060815	.0003074	.000077	2.0625	.003094	.0002577
%RSD	2.973756	.8189817	47.93713	6.962048	.5378785	119.2834	.4580072
#1	.0311550	7.401620	.0005099	-.001062	383.6771	-.002850	.0559792
#2	.0330650	7.494888	.0009925	-.001193	381.2815	-.005552	.0563448
#3	.0321387	7.380643	.0004214	-.001059	385.3875	.000620	.0564767

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8022599	.0105758	.0009617	.0367554	-.009152	1.377183	.1071594
Stddev	.0266759	.0006846	.0000716	.0004984	.000599	.000860	.0004005
%RSD	3.325090	6.473234	7.448289	1.355937	6.540720	.0624479	.3737697
#1	.8092483	.0108437	.0008988	.0364487	-.009498	1.376720	.1073285
#2	.7727855	.0110859	.0010396	.0373304	-.009497	1.376654	.1074476
#3	.8247460	.0097977	.0009466	.0364870	-.008461	1.378176	.1067020

Reviewed By:
On:
Inst Id :P4
LB :LB137573

Sample Name: Q3345-02 Acquired: 10/16/2025 15:47:56 Type: Unk
Method: 6010-200.7 NEW(v286) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.8351772	-.037705	.2286267
Stddev	.0035421	.001332	.0014151
%RSD	.4241104	3.533782	.6189462
#1	.8362594	-.036177	.2277346
#2	.8312203	-.038628	.2302583
#3	.8380519	-.038308	.2278871

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4850.255	78655.03	6296.306	3852.820	5558.930
Stddev	15.098	240.59	51.299	11.021	24.472
%RSD	.3112761	.3058825	.8147454	.2860493	.4402349
#1	4847.419	78419.39	6346.027	3846.139	5555.368
#2	4866.569	78645.41	6243.563	3846.780	5584.988
#3	4836.776	78900.29	6299.327	3865.540	5536.433

Reviewed By:
On:
Inst Id :P4
LB :LB137573

Sample Name: Q3345-04 Acquired: 10/16/2025 15:52:23 Type: Unk
Method: 6010-200.7 NEW(v286) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.004318**	**.0188456**	**.0067111**	**.0050581**	**.0035038**	**.1273827**	**.1377387**
Stddev	.001767	.0022025	.0008597	.0030223	.0019611	.0014180	.0008375
%RSD	40.93376	11.68696	12.80923	59.75186	55.97045	1.113146	.6080495
#1	-.002581	.0213022	.0077037	.0019901	.0036015	.1258510	.1373377
#2	-.006114	.0170475	.0062242	.0080325	.0054143	.1276474	.1371771
#3	-.004257	.0181871	.0062055	.0051518	.0014957	.1286496	.1387014

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000107**	**.0007580**	**68.55926**	**.0064464**	**.0017290**	**.0093602**	**.0333446**
Stddev	.000069	.0000333	.05684	.0001019	.0001003	.0000090	.0049906
%RSD	64.31920	4.398234	.0829046	1.581350	5.800935	.0964035	14.96672
#1	-.000184	.0007211	68.56080	.0063820	.0018391	.0093516	.0387285
#2	-.000049	.0007669	68.61532	.0063933	.0017048	.0093596	.0324321
#3	-.000089	.0007859	68.50167	.0065639	.0016429	.0093696	.0288733

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1017012**	**2.330684**	**.0034291**	**-.001161**	**284.9347**	**-.000837**	**.0717320**
Stddev	.0007320	.030059	.0002301	.000508	1.6870	.004686	.0001800
%RSD	.7197229	1.289718	6.710453	43.73464	.5920612	559.7367	.2509383
#1	.1010252	2.349488	.0035067	-.001688	285.9997	-.004191	.0719210
#2	.1024786	2.346547	.0031702	-.001122	282.9896	-.002838	.0717125
#3	.1015999	2.296016	.0036103	-.000674	285.8147	.004517	.0715626

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.686811**	**.0169809**	**.0007490**	**-.018884**	**-.000861**	**4.493985**	**.0216775**
Stddev	.046699	.0007382	.0001089	.000549	.001357	.032218	.0017260
%RSD	2.768506	4.346946	14.53686	2.906526	157.6354	.7169210	7.962361
#1	1.665037	.0161412	.0007849	-.019335	.000706	4.522370	.0230579
#2	1.740421	.0172738	.0006267	-.018273	-.001656	4.458966	.0197423
#3	1.654974	.0175276	.0008355	-.019043	-.001633	4.500619	.0222324

Reviewed By:
On:
Inst Id :P4
LB :LB137573

Sample Name: Q3345-04 Acquired: 10/16/2025 15:52:23 Type: Unk
Method: 6010-200.7 NEW(v286) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	**2.207060**	**-.020302**	**.2765546**
Stddev	.005168	.001297	.0004202
%RSD	.2341679	6.386518	.1519502
#1	2.210331	-.019283	.2770207
#2	2.209748	-.019861	.2762046
#3	2.201102	-.021762	.2764385

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5032.352**	**81987.40**	**6515.479**	**3972.900**	**5856.443**
Stddev	12.716	295.08	33.210	26.153	10.889
%RSD	.2526849	.3599046	.5097156	.6582924	.1859354
#1	5032.790	81653.57	6509.964	3963.843	5850.110
#2	5019.422	82213.39	6485.372	4002.377	5850.203
#3	5044.843	82095.24	6551.102	3952.478	5869.017

Reviewed By:
On:
Inst Id :P4
LB :LB137573

Sample Name: Q3345-06 Acquired: 10/16/2025 15:56:47 Type: Unk
Method: 6010-200.7 NEW(v286) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.003599**	**.0170495**	**.0023419**	**.0047468**	**.0030635**	**.0708929**	**.1243398**
Stddev	.001345	.0011349	.0001862	.0007564	.0018612	.0107153	.0020045
%RSD	37.37765	6.656346	7.951404	15.93587	60.75177	15.11472	1.612154
#1	-.003296	.0173169	.0024966	.0056106	.0010640	.0735750	.1221180
#2	-.005070	.0180267	.0021352	.0042024	.0033811	.0800124	.1248888
#3	-.002431	.0158047	.0023938	.0044275	.0047455	.0590914	.1260127

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000280**	**-.000066**	**141.1579**	**.0008651**	**.0019685**	**.0035017**	**4.006757**
Stddev	.0000417	.000052	.2781	.0001060	.0001600	.0003219	.016756
%RSD	149.1912	78.43702	.1969899	12.25058	8.127623	9.193706	.4182005
#1	-.000012	-.000097	140.8639	.0008744	.0017917	.0031418	3.991109
#2	.000025	-.000006	141.4167	.0009660	.0021034	.0037622	4.024436
#3	.000071	-.000095	141.1931	.0007547	.0020103	.0036012	4.004725

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4697917**	**3.072528**	**.0034150**	**-.001655**	**325.7779**	**-.002149**	**.0526007**
Stddev	.0017024	.022559	.0002360	.000380	2.0392	.003171	.0001330
%RSD	.3623633	.7342136	6.912166	22.96734	.6259349	147.5648	.2528785
#1	.4708567	3.055889	.0031441	-.001221	325.1492	.001291	.0525537
#2	.4678283	3.098204	.0035763	-.001812	328.0574	-.004954	.0524976
#3	.4706899	3.063489	.0035247	-.001930	324.1271	-.002783	.0527508

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.533454**	**.0329815**	**.0017324**	**-.017435**	**-.006016**	**5.638579**	**.0136028**
Stddev	.006872	.0006032	.0002026	.000351	.001164	.012019	.0006027
%RSD	.4481536	1.828955	11.69757	2.015227	19.35415	.2131514	4.430809
#1	1.526586	.0334470	.0017419	-.017037	-.005246	5.624791	.0142677
#2	1.540330	.0331974	.0019301	-.017700	-.007355	5.646840	.0130925
#3	1.533446	.0323000	.0015252	-.017568	-.005447	5.644106	.0134481

Reviewed By:
On:
Inst Id :P4
LB :LB137573

Sample Name: Q3345-06 Acquired: 10/16/2025 15:56:47 Type: Unk
Method: 6010-200.7 NEW(v286) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	**7.435501**	**-.029195**	**.4213564**
Stddev	.121726	.002566	.0009106
%RSD	1.637089	8.787938	.2161088
#1	7.294998	-.032138	.4208160
#2	7.502388	-.028016	.4224077
#3	7.509117	-.027430	.4208456

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4934.252**	**80090.12**	**6644.400**	**3753.873**	**5696.217**
Stddev	31.657	288.34	18.069	2.943	48.753
%RSD	.6415825	.3600165	.2719494	.0783859	.8558860
#1	4969.764	80422.52	6650.971	3757.259	5752.048
#2	4908.987	79940.46	6623.964	3752.423	5662.055
#3	4924.007	79907.39	6658.264	3751.937	5674.548

Reviewed By:
On:
Inst Id :P4
LB :LB137573

Sample Name: Q3346-01 Acquired: 10/16/2025 16:01:10 Type: Unk
Method: 6010-200.7 NEW(v286) 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	**.1277376**	**-.599083**	**.1658812**	**-.025772**	**-.191156**	**2.809127**
Stddev	.0025706	.016217	.0012392	.000113	.005506	.019451
%RSD	2.012426	2.706942	.7470469	.4383827	2.880561	.6924259
#1	.1303649	-.612015	.1667121	-.025681	-.197027	2.806051
#2	.1252277	-.604346	.1664747	-.025898	-.186106	2.791398
#3	.1276201	-.580889	.1644569	-.025736	-.190334	2.829933

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0038765**	**.0395058**	**.0197201**	**13.14839**	**1.587834**	**.4443991**
Stddev	.0008427	.0002077	.0036722	.13606	.002997	.0016991
%RSD	21.73890	.5256721	18.62162	1.034796	.1887690	.3823346
#1	.0030911	.0392694	.0156184	13.25888	1.590702	.4427547
#2	.0037718	.0395891	.0208398	12.99642	1.588076	.4442947
#3	.0047667	.0396589	.0227022	13.18989	1.584723	.4461480

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.154183**	**2295.492**	**8.119823**	**1.044678**	**1.453165**	^ *****
Stddev	.014107	33.719	.020960	.028013	.002335	-----
%RSD	.6548562	1.468912	.2581305	2.681520	.1607119	-----
#1	2.138529	2334.410	8.143090	1.065339	1.452664	^ -----
#2	2.158112	2275.044	8.102419	1.055902	1.451121	^ -----
#3	2.165909	2277.021	8.113959	1.012793	1.455711	^ -----

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**355.0245**	**.2162144**	**1.831418**	**.0903473**	^ *****	**-.001490**
Stddev	5.3464	.0053422	.007813	.0078544	-----	.000380
%RSD	1.505932	2.470793	.4266142	8.693535	-----	25.48810
#1	357.0452	.2160275	1.824649	.0978142	^ -----	-.001319
#2	359.0661	.2216476	1.829638	.0910721	^ -----	-.001225
#3	348.9622	.2109681	1.839968	.0821557	^ -----	-.001925

Reviewed By:
On:
Inst Id :P4
LB :LB137573

Sample Name: Q3346-01 Acquired: 10/16/2025 16:01:10 Type: Unk
Method: 6010-200.7 NEW(v286) 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	.0358935	.3361812	.7730774	.5357907	F 1710.868	.2209695
Stddev	.0009892	.0009697	.0094754	.0027449	36.257	.0026435
%RSD	2.755988	.2884539	1.225673	.5123135	2.119208	1.196324
#1	.0369284	.3365570	.7838273	.5389535	1744.029	.2231997
#2	.0349574	.3350798	.7659384	.5343874	1672.155	.2180495
#3	.0357949	.3369068	.7694663	.5340310	1716.419	.2216594

Elem	Sr4077
Units	ppm
Avg	F -2.19217
Stddev	.03252
%RSD	1.483296
#1	-2.22969
#2	-2.17234
#3	-2.17447

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4557.919	76788.10	6523.619	3558.134	4765.823
Stddev	2.270	346.81	14.519	16.422	11.078
%RSD	.0498090	.4516492	.2225620	.4615418	.2324386
#1	4556.203	76398.26	6540.204	3539.482	4774.088
#2	4560.493	76903.68	6513.204	3564.500	4770.144
#3	4557.062	77062.37	6517.450	3570.421	4753.236

Reviewed By:
On:
Inst Id :P4
LB :LB137573

Sample Name: Q3348-04 Acquired: 10/16/2025 16:05:40 Type: Unk
Method: 6010-200.7 NEW(v286) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.003681**	**.0176515**	**.0032970**	**.0063468**	**.0012160**	**.1371041**	**.1817109**
Stddev	.000469	.0009802	.0008828	.0007821	.0019595	.0087041	.0004499
%RSD	12.73550	5.552983	26.77490	12.32333	161.1389	6.348552	.2475817
#1	-.003172	.0175248	.0041047	.0063302	.0000559	.1316990	.1818778
#2	-.004095	.0186889	.0023546	.0071371	.0001138	.1324684	.1812014
#3	-.003775	.0167408	.0034316	.0055731	.0034783	.1471449	.1820534

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000057**	**-.000079**	**6.275477**	**.0013389**	**-.000318**	**.0097753**	**.0485597**
Stddev	.000039	.000083	.017261	.0002541	.000183	.0000771	.0041994
%RSD	67.76095	105.2123	.2750588	18.97517	57.58176	.7887004	8.647915
#1	-.000087	-.000170	6.295397	.0015652	-.000529	.0097742	.0507991
#2	-.000072	-.000057	6.264925	.0013872	-.000194	.0098529	.0511648
#3	-.000013	-.000009	6.266109	.0010641	-.000232	.0096988	.0437153

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0191365**	**.3649538**	**.0003648**	**-.000783**	**360.0518**	**-.002722**	**.0480820**
Stddev	.0002240	.0065193	.0001624	.000388	1.0995	.001133	.0000328
%RSD	1.170282	1.786341	44.51486	49.59047	.3053809	41.62878	.0681754
#1	.0189730	.3619098	.0001777	-.001215	361.3177	-.003731	.0480681
#2	.0193918	.3605133	.0004690	-.000668	359.3344	-.002939	.0480585
#3	.0190447	.3724384	.0004476	-.000465	359.5033	-.001496	.0481195

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2527888**	**.0139448**	**.0004391**	**-.016861**	**-.000556**	**.3438212**	**.0197410**
Stddev	.0243619	.0007739	.0000248	.000595	.000619	.0291341	.0003441
%RSD	9.637258	5.549979	5.653828	3.530120	111.4749	8.473614	1.742975
#1	.2806092	.0134139	.0004346	-.017486	-.001262	.3695595	.0196733
#2	.2424868	.0135877	.0004659	-.016301	-.000298	.3497123	.0194358
#3	.2352703	.0148328	.0004169	-.016795	-.000106	.3121917	.0201139

Reviewed By:
On:
Inst Id :P4
LB :LB137573

Sample Name: Q3348-04 Acquired: 10/16/2025 16:05:40 Type: Unk
Method: 6010-200.7 NEW(v286) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.4499475	-.011460	.0512474
Stddev	.0036884	.002062	.0001370
%RSD	.8197281	17.99615	.2673148
#1	.4540411	-.009190	.0513865
#2	.4489186	-.013219	.0511126
#3	.4468829	-.011971	.0512432

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5023.040	80850.18	6517.722	4001.781	5859.910
Stddev	14.629	269.21	73.919	11.343	13.571
%RSD	.2912471	.3329781	1.134124	.2834602	.2315878
#1	5006.891	80602.42	6559.775	3988.723	5844.852
#2	5026.821	81136.65	6561.021	4009.203	5863.684
#3	5035.407	80811.46	6432.371	4007.417	5871.194

Reviewed By:
On:
Inst Id :P4
LB :LB137573

Sample Name: Q3348-08 Acquired: 10/16/2025 16:10:06 Type: Unk
Method: 6010-200.7 NEW(v286) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.004479**	**.0144314**	**-.001175**	**.0046596**	**.0011889**	**.0086113**	**-.006066**
Stddev	.000298	.0030488	.000944	.0013418	.0016038	.0068892	.000354
%RSD	6.645681	21.12647	80.32317	28.79735	134.9015	80.00134	5.841885
#1	-.004486	.0128499	-.000101	.0031327	.0025778	.0037425	-.005687
#2	-.004773	.0179460	-.001554	.0051951	.0015553	.0164938	-.006389
#3	-.004178	.0124982	-.001870	.0056510	-.000566	.0055977	-.006122

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000206**	**-.000069**	**.0189240**	**.0013620**	**-.000350**	**.0007358**	**.0089603**
Stddev	.000020	.000056	.0048794	.0002539	.000059	.0002428	.0024922
%RSD	9.566151	81.06845	25.78422	18.63779	16.78935	32.99572	27.81343
#1	-.000192	-.000113	.0184957	.0016500	-.000388	.0007501	.0071340
#2	-.000229	-.000006	.0142728	.0012651	-.000283	.0009711	.0117994
#3	-.000197	-.000089	.0240034	.0011709	-.000380	.0004862	.0079475

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0005687**	**.0152529**	**-.000054**	**-.000918**	**-.081809**	**-.000582**	**.0012309**
Stddev	.0005441	.0087988	.000192	.000441	.001537	.001585	.0001766
%RSD	95.67292	57.68575	357.3924	48.02390	1.878382	272.3130	14.34744
#1	.0006163	.0189523	-.000273	-.001366	-.082990	-.000784	.0011684
#2	.0010873	.0052085	.000082	-.000485	-.080072	-.002057	.0014302
#3	.0000023	.0215981	.000031	-.000901	-.082365	.001095	.0010940

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.196299**	**-.002962**	**.0003458**	**-.017078**	**-.000584**	**-.003232**	**.0072047**
Stddev	.052835	.000224	.0002777	.000636	.000048	.003792	.0016839
%RSD	26.91574	7.548105	80.28903	3.724147	8.215747	117.3454	23.37236
#1	-.256220	-.002887	.0001752	-.017729	-.000621	-.004290	.0080370
#2	-.156405	-.002785	.0001961	-.017047	-.000600	.000977	.0083103
#3	-.176272	-.003213	.0006662	-.016458	-.000529	-.006382	.0052667

Reviewed By:
On:
Inst Id :P4
LB :LB137573

Sample Name: Q3348-08 Acquired: 10/16/2025 16:10:06 Type: Unk
Method: 6010-200.7 NEW(v286) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	**.0491807**	**-.009328**	**.0001023**
Stddev	.0004252	.000551	.0000942
%RSD	.8646172	5.905947	92.06765
#1	.0487197	-.009383	.0002015
#2	.0492650	-.008752	.0000915
#3	.0495575	-.009850	.0000140

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5375.233**	**89688.36**	**6678.591**	**4246.992**	**7015.283**
Stddev	8.341	434.22	59.924	30.696	15.942
%RSD	.1551665	.4841380	.8972529	.7227812	.2272536
#1	5366.691	89189.63	6671.447	4211.549	6997.844
#2	5383.356	89982.38	6622.559	4264.308	7029.109
#3	5375.652	89893.08	6741.766	4265.117	7018.897

Reviewed By:
On:
Inst Id :P4
LB :LB137573

Sample Name: Q3348-08DUP Acquired: 10/16/2025 16:14:25 Type: Unk
Method: 6010-200.7 NEW(v286) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.004419**	**.0141869**	**-.000197**	**.0047008**	**.0001146**	**.0175536**	**-.002420**
Stddev	.000609	.0027576	.000172	.0018322	.0009432	.0072731	.002184
%RSD	13.78881	19.43767	86.97166	38.97574	822.7082	41.43342	90.21359
#1	-.004738	.0159483	-.000314	.0057606	-.000646	.0254453	-.003597
#2	-.003716	.0156034	-.000000	.0057567	.001170	.0111201	.000099
#3	-.004802	.0110089	-.000278	.0025852	-.000180	.0160954	-.003764

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000121**	**-.000081**	**.0105681**	**.0011325**	**-.000298**	**.0004684**	**.0152102**
Stddev	.000067	.000023	.0101415	.0002796	.000072	.0001875	.0026772
%RSD	55.48968	28.58296	95.96395	24.69199	24.02739	40.02321	17.60126
#1	-.000094	-.000098	.0113157	.0010438	-.000229	.0003982	.0158194
#2	-.000072	-.000054	.0000734	.0014457	-.000292	.0006809	.0175302
#3	-.000198	-.000090	.0203151	.0009080	-.000372	.0003262	.0122809

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0007625**	**-.008863**	**-.000061**	**-.000490**	**-.115765**	**-.002157**	**.0010138**
Stddev	.0003481	.024321	.000217	.000268	.015898	.001377	.0001092
%RSD	45.64831	274.4261	356.4403	54.74444	13.73290	63.85092	10.77368
#1	.0006898	.008891	.000174	-.000773	-.120918	-.002619	.0009992
#2	.0011412	.001106	-.000103	-.000458	-.128447	-.003243	.0011296
#3	.0004566	-.036584	-.000254	-.000240	-.097930	-.000608	.0009126

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.207677**	**-.004364**	**.0004560**	**-.016872**	**.0002109**	**.0010908**	**.0090729**
Stddev	.038555	.000525	.0000459	.000314	.0004699	.0111237	.0021368
%RSD	18.56507	12.02508	10.06864	1.863189	222.8329	1019.787	23.55149
#1	-.191516	-.003910	.0005089	-.016977	-.000298	-.011309	.0097912
#2	-.251684	-.004938	.0004328	-.017120	.000629	.004387	.0107580
#3	-.179833	-.004243	.0004262	-.016518	.000301	.010194	.0066695

Reviewed By:
On:
Inst Id :P4
LB :LB137573

Sample Name: Q3348-08DUP Acquired: 10/16/2025 16:14:25 Type: Unk
Method: 6010-200.7 NEW(v286) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0439699	-.010514	-.000002
Stddev	.0006904	.000548	.000115
%RSD	1.570139	5.207272	5052.138
#1	.0437751	-.011091	.000036
#2	.0433978	-.010002	-.000132
#3	.0447367	-.010449	.000089

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5403.995	89891.56	6866.986	4162.521	7129.582
Stddev	10.651	48.55	38.052	18.617	11.764
%RSD	.1970901	.0540063	.5541279	.4472529	.1650022
#1	5398.723	89835.79	6900.469	4159.621	7120.816
#2	5416.253	89914.53	6874.885	4182.418	7142.952
#3	5397.009	89924.37	6825.605	4145.524	7124.978

Reviewed By:
On:
Inst Id :P4
LB :LB137573

Sample Name: Q3348-08LX5 Acquired: 10/16/2025 16:18:43 Type: Unk
Method: 6010-200.7 NEW(v286) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.002743	.0125138	-.000367	-.000125	-.001632	.0095004	-.004241
Stddev	.002891	.0008694	.001038	.000360	.001185	.0042627	.001146
%RSD	105.3871	6.947650	283.1870	288.8985	72.59319	44.86859	27.02602
#1	-.004937	.0118783	-.000921	-.000234	-.002995	.0064242	-.005250
#2	-.003824	.0135046	-.001010	.000277	-.001047	.0143661	-.002995
#3	.000532	.0121585	.000831	-.000418	-.000853	.0077108	-.004478

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000015	-.000039	.0037166	.0003410	-.000015	.0002078	.0027842
Stddev	.000079	.000075	.0063499	.0000349	.000149	.0002315	.0038696
%RSD	526.1575	192.4723	170.8512	10.22125	1029.599	111.3903	138.9846
#1	.000040	-.000000	.0101516	.0003724	-.000114	.0002609	.0029631
#2	.000020	-.000125	.0035427	.0003471	-.000087	.0004081	.0065613
#3	-.000105	.000009	-.002545	.0003035	.000157	-.000046	-.001172

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000185	-.015015	-.000121	-.000485	.6847721	.0001631	.0004786
Stddev	.000487	.004247	.000063	.000231	.0157939	.0043331	.0003411
%RSD	262.6430	28.28399	52.20959	47.70622	2.306441	2656.993	71.25869
#1	-.000200	-.019547	-.000097	-.000523	.6977166	.0051285	.0005371
#2	-.000665	-.014371	-.000073	-.000237	.6894254	-.001786	.0007866
#3	.000309	-.011127	-.000192	-.000696	.6671744	-.002853	.0001121

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6301899	-.004305	-.000069	.0059849	-.000567	-.006126	.0030677
Stddev	.0946812	.000201	.000016	.0002148	.001770	.013930	.0002364
%RSD	15.02422	4.657935	22.63991	3.589777	312.3294	227.4053	7.704337
#1	.5308918	-.004080	-.000053	.0060340	.001285	.008794	.0028001
#2	.6402228	-.004369	-.000070	.0061709	-.002241	-.008380	.0032480
#3	.7194551	-.004466	-.000085	.0057497	-.000745	-.018791	.0031549

Reviewed By:
On:
Inst Id :P4
LB :LB137573

Sample Name: Q3348-08LX5 Acquired: 10/16/2025 16:18:43 Type: Unk
Method: 6010-200.7 NEW(v286) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.3021365	.0272698	-.000009
Stddev	.0228741	.0027789	.000087
%RSD	7.570781	10.19024	1009.544
#1	.3263905	.0299851	.000087
#2	.2990667	.0273930	-.000031
#3	.2809523	.0244314	-.000081

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5445.750	89402.03	6861.533	4256.447	7027.184
Stddev	8.268	190.37	38.712	18.268	10.506
%RSD	.1518262	.2129361	.5641910	.4291758	.1495003
#1	5444.205	89604.23	6866.045	4236.954	7034.479
#2	5438.363	89375.62	6820.763	4273.175	7015.142
#3	5454.682	89226.25	6897.791	4259.211	7031.930

Reviewed By:
On:
Inst Id :P4
LB :LB137573

Sample Name: Q3348-08MS Acquired: 10/16/2025 16:23:03 Type: Unk
Method: 6010-200.7 NEW(v286) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7958652	2.154793	.9090707	1.986915	.8526905	2.020944	.1974115
Stddev	.0014356	.022176	.0015765	.006134	.0013927	.009044	.0012541
%RSD	.1803758	1.029157	.1734238	.3087211	.1633248	.4475144	.6352460
#1	.7942132	2.129455	.9094847	1.981865	.8538437	2.031371	.1987274
#2	.7965725	2.164259	.9073285	1.985140	.8511433	2.016217	.1962301
#3	.7968098	2.170666	.9103990	1.993741	.8530844	2.015242	.1972770

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1935697	.1777290	1.027546	.4011361	.1892846	.3108948	3.049055
Stddev	.0011428	.0001228	.004465	.0008149	.0002776	.0001037	.022855
%RSD	.5903770	.0690813	.4344886	.2031460	.1466707	.0333387	.7495801
#1	.1936684	.1777597	1.032043	.4016938	.1893901	.3107771	3.075377
#2	.1923808	.1778335	1.027481	.4015137	.1889697	.3109351	3.034242
#3	.1946600	.1775938	1.023115	.4002010	.1894941	.3109723	3.037547

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2091386	2.013591	.4695518	.0736949	2.874673	.3018494	.2081065
Stddev	.0018129	.043477	.0004504	.0003441	.021015	.0006936	.0011607
%RSD	.8668537	2.159202	.0959279	.4669096	.7310447	.2297910	.5577276
#1	.2102926	1.971140	.4690967	.0738667	2.892158	.3013431	.2094419
#2	.2070490	2.058027	.4699974	.0739193	2.880503	.3026400	.2073400
#3	.2100743	2.011605	.4695612	.0732987	2.851358	.3015650	.2075376

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.519844	.2708143	.4482011	.6654704	.2037934	.8662587	5.302756
Stddev	.058072	.0024978	.0000611	.0027930	.0023661	.0131703	.016797
%RSD	.6100144	.9223224	.0136415	.4197067	1.161032	1.520361	.3167542
#1	9.453324	.2704120	.4481504	.6626230	.2031568	.8810056	5.283490
#2	9.545773	.2685420	.4481840	.6655826	.2018106	.8621032	5.310455
#3	9.560434	.2734888	.4482691	.6682056	.2064126	.8556675	5.314323

Reviewed By:
On:
Inst Id :P4
LB :LB137573

Sample Name: Q3348-08MS Acquired: 10/16/2025 16:23:03 Type: Unk
Method: 6010-200.7 NEW(v286) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0541538	.1925533	.1997636
Stddev	.0051502	.0004932	.0006828
%RSD	9.510367	.2561398	.3417865
#1	.0600506	.1930965	.2001141
#2	.0518733	.1921335	.1989767
#3	.0505376	.1924297	.2001999

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5316.055	89139.97	6675.865	4251.484	6766.934
Stddev	9.117	110.70	32.012	25.187	6.974
%RSD	.1715046	.1241872	.4795196	.5924188	.1030667
#1	5313.221	89026.31	6672.271	4223.172	6765.756
#2	5326.253	89146.14	6709.523	4259.880	6774.422
#3	5308.692	89247.45	6645.802	4271.400	6760.623

Reviewed By:
On:
Inst Id :P4
LB :LB137573

Sample Name: Q3348-08MSD Acquired: 10/16/2025 16:27:04 Type: Unk
Method: 6010-200.7 NEW(v286) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8022670	2.153930	.9190336	1.990365	.8320248	2.035966	.2012207
Stddev	.0022515	.041409	.0029081	.002853	.0011637	.005934	.0021919
%RSD	.2806390	1.922504	.3164308	.1433436	.1398575	.2914732	1.089307
#1	.7997031	2.119930	.9157439	1.988495	.8308765	2.029294	.2013571
#2	.8039219	2.200046	.9212619	1.993649	.8332033	2.040654	.2033412
#3	.8031759	2.141814	.9200950	1.988951	.8319947	2.037951	.1989637

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1965239	.1803025	1.049640	.4052544	.1920782	.3145747	3.075508
Stddev	.0013626	.0002810	.015323	.0005203	.0001893	.0002309	.021250
%RSD	.6933616	.1558324	1.459813	.1283785	.0985688	.0733887	.6909553
#1	.1949925	.1800009	1.061565	.4047307	.1918930	.3144650	3.073998
#2	.1969772	.1803497	1.054996	.4057711	.1922714	.3144192	3.097473
#3	.1976022	.1805568	1.032358	.4052614	.1920700	.3148400	3.055053

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2131831	2.014765	.4758312	.0742427	2.846979	.3078255	.2092263
Stddev	.0024600	.038828	.0008014	.0004762	.007783	.0013445	.0004086
%RSD	1.153929	1.927156	.1684120	.6414184	.2733902	.4367803	.1953109
#1	.2123106	1.997835	.4749227	.0738145	2.847954	.3064042	.2090566
#2	.2159604	1.987278	.4764373	.0741582	2.854229	.3090771	.2096925
#3	.2112782	2.059184	.4761338	.0747556	2.838754	.3079951	.2089299

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.557161	.2755011	.4433806	.6548292	.1994084	.8374211	5.298297
Stddev	.059684	.0016629	.0003888	.0011694	.0011272	.0049968	.007921
%RSD	.6244956	.6036068	.0876946	.1785824	.5652861	.5966849	.1495020
#1	9.619726	.2736324	.4429970	.6541753	.2006473	.8393323	5.293668
#2	9.550905	.2760531	.4433706	.6561793	.1991344	.8317509	5.307443
#3	9.500850	.2768179	.4437744	.6541331	.1984434	.8411803	5.293779

Reviewed By:
On:
Inst Id :P4
LB :LB137573

Sample Name: Q3348-08MSD Acquired: 10/16/2025 16:27:04 Type: Unk
Method: 6010-200.7 NEW(v286) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0311495	.1952720	.2044755
Stddev	.0014814	.0018928	.0008747
%RSD	4.755793	.9693193	.4277525
#1	.0296511	.1958668	.2046467
#2	.0326133	.1967960	.2052518
#3	.0311842	.1931532	.2035279

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5333.842	89023.18	6582.388	4290.916	6781.439
Stddev	3.491	125.55	34.464	14.651	6.610
%RSD	.0654523	.1410334	.5235819	.3414422	.0974729
#1	5336.908	89001.65	6619.249	4280.739	6787.839
#2	5330.042	89158.11	6576.948	4307.708	6774.637
#3	5334.575	88909.79	6550.967	4284.301	6781.840

Reviewed By:
On:
Inst Id :P4
LB :LB137573

Sample Name: CCV05 Acquired: 10/16/2025 16:31:04 Type: Unk
Method: 6010-200.7 NEW(v286) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCV05 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**5.078128**	**5.462848**	**4.879509**	**5.214664**	**5.178290**	**9.766230**	**9.928480**
Stddev	.021063	.205872	.006435	.036166	.018691	.046796	.046982
%RSD	.4147797	3.768584	.1318708	.6935384	.3609534	.4791581	.4731998
#1	5.078635	5.578295	4.872582	5.218359	5.177535	9.815919	9.974978
#2	5.098932	5.585089	4.885300	5.248840	5.197347	9.759771	9.929433
#3	5.056815	5.225160	4.880645	5.176792	5.159987	9.722999	9.881029

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2508092**	**2.404585**	**24.49222**	**.9644326**	**2.434399**	**1.251126**	**5.006087**
Stddev	.0011152	.003503	.08193	.0023038	.003884	.004241	.021868
%RSD	.4446616	.1456652	.3345277	.2388743	.1595601	.3389666	.4368371
#1	.2520873	2.402564	24.58620	.9620653	2.432881	1.249036	4.986270
#2	.2503068	2.408629	24.45465	.9645653	2.438813	1.256006	5.029549
#3	.2500335	2.402561	24.43581	.9666671	2.431503	1.248335	5.002442

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.498295**	**24.23966**	**2.428690**	**1.259658**	**25.09321**	**2.446572**	**2.522167**
Stddev	.008655	.10173	.004250	.001805	.03016	.015496	.003892
%RSD	.3464340	.4197010	.1749806	.1432695	.1201839	.6333695	.1543047
#1	2.506740	24.34553	2.425692	1.257738	25.07812	2.462301	2.525763
#2	2.498700	24.14264	2.433553	1.259917	25.12793	2.446095	2.518035
#3	2.489445	24.23081	2.426824	1.261319	25.07357	2.431320	2.522703

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**25.00145**	**5.128961**	**4.998011**	**4.911283**	**4.935433**	**4.780501**	**5.198457**
Stddev	.16118	.010418	.014675	.019284	.011052	.027912	.019629
%RSD	.6446985	.2031184	.2936183	.3926490	.2239306	.5838788	.3775887
#1	24.81632	5.140688	4.995347	4.911489	4.947923	4.758063	5.216505
#2	25.07737	5.125418	5.013835	4.930464	4.931458	4.771683	5.201307
#3	25.11065	5.120777	4.984850	4.891897	4.926918	4.811758	5.177559

Reviewed By:
On:
Inst Id :P4
LB :LB137573

Sample Name: CCV05 Acquired: 10/16/2025 16:31:04 Type: Unk
Method: 6010-200.7 NEW(v286) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCV05 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	**5.288670**	**4.906678**	**4.988478**
Stddev	.036648	.017796	.037737
%RSD	.6929589	.3626947	.7564889
#1	5.314473	4.923841	5.031155
#2	5.304816	4.907882	4.959516
#3	5.246721	4.888310	4.974762

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5248.259**	**85648.98**	**6598.559**	**4144.946**	**6099.103**
Stddev	8.518	107.33	43.479	24.775	5.358
%RSD	.1623057	.1253126	.6589179	.5977040	.0878568
#1	5257.610	85532.10	6550.331	4119.060	6105.255
#2	5240.941	85743.11	6610.592	4168.434	6096.596
#3	5246.225	85671.73	6634.756	4147.343	6095.457

Reviewed By:
On:
Inst Id :P4
LB :LB137573

Sample Name: CCB05 Acquired: 10/16/2025 16:35:06 Type: Unk
Method: 6010-200.7 NEW(v286) 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	**.0002852**	**.0141093**	**-.000880**	**.0001469**	**-.002772**	**.0134879**
Stddev	.0020854	.0001452	.000432	.0008739	.001815	.0118488
%RSD	731.3008	1.029411	49.12835	594.9729	65.47965	87.84725
#1	.0024017	.0140670	-.000528	-.000683	-.000692	.0142211
#2	.0002214	.0139900	-.000749	.000064	-.004035	.0249531
#3	-.001768	.0142711	-.001362	.001059	-.003589	.0012896

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.002263**	**.0000469**	**.0000405**	**.0162255**	**.0000056**	**.0000550**
Stddev	.000883	.0000320	.0000299	.0062043	.0001544	.0001525
%RSD	39.00066	68.34652	73.85372	38.23762	2768.560	277.3099
#1	-.003175	.0000553	.0000750	.0228943	.0001783	.0002183
#2	-.001412	.0000115	.0000220	.0151580	-.000042	-.000084
#3	-.002203	.0000739	.0000245	.0106243	-.000119	.000030

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0003482**	**.0024216**	**.0001040**	**-.024228**	**.0001950**	**-.000387**
Stddev	.0002798	.0082113	.0003411	.030017	.0001237	.000327
%RSD	80.34763	339.0799	327.8428	123.8935	63.42908	84.64423
#1	.0005503	.0035969	-.000232	.005862	.0000559	-.000191
#2	.0004655	.0099820	.000450	-.054171	.0002928	-.000204
#3	.0000289	-.006314	.000094	-.024376	.0002364	-.000764

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2780823**	**-.002031**	**.0001361**	**.5694704**	**.0040235**	**.0001959**
Stddev	.0183886	.001251	.0000908	.0511561	.0006280	.0000988
%RSD	6.612641	61.62427	66.75234	8.983098	15.60931	50.44944
#1	.2945982	-.002563	.0000551	.5444791	.0047410	.0001160
#2	.2813811	-.002928	.0002343	.6283182	.0037563	.0003064
#3	.2582676	-.000601	.0001188	.5356140	.0035732	.0001653

Reviewed By:
On:
Inst Id :P4
LB :LB137573

Sample Name: CCB05 Acquired: 10/16/2025 16:35:06 Type: Unk
Method: 6010-200.7 NEW(v286) 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	.0018859	-.000722	-.005423	.0010085	F .0969967	.0075101
Stddev	.0004661	.003202	.008267	.0006279	.0042009	.0003726
%RSD	24.71537	443.5285	152.4463	62.26023	4.330975	4.961079
#1	.0014578	-.004391	-.007061	.0016582	.1014549	.0079059
#2	.0023824	.001509	.003540	.0009622	.0931120	.0071662
#3	.0018176	.000716	-.012748	.0004050	.0964233	.0074582

Elem	Sr4077
Units	ppm
Avg	.0000376
Stddev	.0000650
%RSD	173.1517
#1	-.000031
#2	.000098
#3	.000046

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5548.484	89945.25	6866.200	4248.643	7228.138
Stddev	28.499	67.55	11.241	8.536	35.031
%RSD	.5136361	.0751061	.1637183	.2009217	.4846482
#1	5517.770	89881.18	6862.826	4252.809	7188.897
#2	5553.611	89938.76	6878.743	4238.823	7239.255
#3	5574.072	90015.82	6857.033	4254.296	7256.261

Reviewed By:
On:
Inst Id :P4
LB :LB137573

Sample Name: Q3356-01 Acquired: 10/16/2025 16:44:36 Type: Unk
Method: 6010-200.7 NEW(v286) 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	.3160874	-.023469	2.991595	.0273523	-.027573	356.2109
Stddev	.0025155	.003761	.002289	.0022781	.005354	1.7543
%RSD	.7958322	16.02721	.0765144	8.328896	19.41863	.4924923
#1	.3188307	-.027451	2.992880	.0253627	-.022555	358.1924
#2	.3155424	-.019976	2.988952	.0268566	-.033210	354.8557
#3	.3138890	-.022981	2.992953	.0298374	-.026953	355.5846

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.780710	.0252907	.0354011	366.2530	1.005035	.2082281
Stddev	.009816	.0001187	.0001399	1.1920	.000839	.0004085
%RSD	.3529934	.4693845	.3953073	.3254632	.0835082	.1961596
#1	2.790383	.0254122	.0352398	367.0792	1.005485	.2085607
#2	2.770758	.0251750	.0354904	364.8865	1.004067	.2077722
#3	2.780990	.0252850	.0354730	366.7932	1.005554	.2083515

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7254431	549.4346	3.535268	71.48967	.4593227	-.082094
Stddev	.0008743	.5287	.011692	.24267	.0021031	.000451
%RSD	.1205131	.0962186	.3307142	.3394431	.4578725	.5494091
#1	.7260004	549.5751	3.542202	71.74352	.4615477	-.081646
#2	.7244355	548.8498	3.521770	71.25999	.4573675	-.082548
#3	.7258935	549.8787	3.541834	71.46551	.4590529	-.082088

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	109.2138	1.239919	2.786709	71.41149	.6116489	.0117313
Stddev	.2703	.004034	.003260	.14092	.0096434	.0001964
%RSD	.2474518	.3253455	.1169838	.1973408	1.576618	1.674186
#1	109.4738	1.237658	2.783705	71.56968	.6173095	.0117147
#2	108.9343	1.237522	2.786245	71.29936	.6171229	.0119356
#3	109.2332	1.244576	2.790175	71.36544	.6005142	.0115438

Reviewed By:
On:
Inst Id :P4
LB :LB137573

Sample Name: Q3356-01 Acquired: 10/16/2025 16:44:36 Type: Unk
Method: 6010-200.7 NEW(v286) 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	.0291044	2.749219	F 143.7989	F 26.52285	F 69.20881	.2972314
Stddev	.0011762	.023090	.3213	.03112	.28175	.0021366
%RSD	4.041322	.8398859	.2234399	.1173429	.4070989	.7188237
#1	.0277824	2.775757	143.6864	26.49469	68.99665	.2967676
#2	.0300351	2.733723	143.5490	26.55626	69.10129	.2953648
#3	.0294956	2.738177	144.1614	26.51758	69.52848	.2995617

Elem	Sr4077
Units	ppm
Avg	1.670381
Stddev	.023180
%RSD	1.387714
#1	1.645239
#2	1.690903
#3	1.675001

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6834.616	111678.1	9395.851	5456.283	4936.571
Stddev	11.597	358.4	46.877	11.171	11.959
%RSD	.1696813	.3209633	.4989138	.2047386	.2422550
#1	6821.293	111272.4	9346.149	5451.443	4922.969
#2	6842.446	111952.0	9439.270	5448.348	4945.432
#3	6840.110	111809.9	9402.135	5469.058	4941.313

Reviewed By:
On:
Inst Id :P4
LB :LB137573

Sample Name: Q3356-01DUP Acquired: 10/16/2025 16:48:51 Type: Unk
Method: 6010-200.7 NEW(v286) 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	**.3092309**	**-.022002**	**2.880873**	**.0290664**	**-.029352**	**350.9021**
Stddev	.0015301	.006269	.004371	.0014672	.002686	3.9822
%RSD	.4947923	28.49430	.1517189	5.047817	9.150446	1.134853
#1	.3075028	-.014968	2.883204	.0288977	-.031545	355.4653
#2	.3097764	-.024035	2.883584	.0306107	-.030155	348.1295
#3	.3104134	-.027002	2.875830	.0276908	-.026356	349.1115

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.657361**	**.0240897**	**.0329298**	**356.8439**	**.9735560**	**.1988569**
Stddev	.016606	.0000647	.0006499	.8338	.0035837	.0002611
%RSD	.6249171	.2685269	1.973624	.2336669	.3681054	.1312802
#1	2.670875	.0241442	.0329898	356.8000	.9776941	.1989325
#2	2.662385	.0240182	.0322520	357.6988	.9714889	.1990719
#3	2.638822	.0241067	.0335477	356.0329	.9714850	.1985664

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.7105023**	**529.8784**	**3.399884**	**70.18223**	**.4395267**	**-.078790**
Stddev	.0013236	3.2046	.022321	.06042	.0015388	.001078
%RSD	.1862923	.6047831	.6565112	.0860954	.3500978	1.367979
#1	.7091640	530.8562	3.404892	70.13828	.4399144	-.078494
#2	.7105323	532.4802	3.419275	70.25114	.4408346	-.077891
#3	.7118107	526.2988	3.375485	70.15728	.4378312	-.079985

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**106.7661**	**1.208057**	**2.689791**	**68.51304**	**.6113373**	**.0113613**
Stddev	.7811	.005545	.001444	.26657	.0092314	.0002351
%RSD	.7316265	.4589622	.0536900	.3890807	1.510037	2.069572
#1	107.2890	1.206031	2.691275	68.69698	.6206076	.0115674
#2	107.1411	1.214330	2.688390	68.63482	.6112591	.0111052
#3	105.8682	1.203811	2.689709	68.20733	.6021453	.0114114

Reviewed By:
On:
Inst Id :P4
LB :LB137573

Sample Name: Q3356-01DUP Acquired: 10/16/2025 16:48:51 Type: Unk
Method: 6010-200.7 NEW(v286) 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	.0271346	2.501573	F 136.5427	F 25.22923	F 64.92468	.2824444
Stddev	.0002852	.012571	.1792	.17392	.24365	.0011947
%RSD	1.050922	.5025210	.1312132	.6893634	.3752848	.4229828
#1	.0268053	2.508295	136.4697	25.04094	64.75292	.2828374
#2	.0273010	2.509354	136.7468	25.38386	64.81758	.2833931
#3	.0272975	2.487071	136.4115	25.26290	65.20354	.2811027

Elem	Sr4077
Units	ppm
Avg	1.626866
Stddev	.020338
%RSD	1.250139
#1	1.613874
#2	1.616421
#3	1.650305

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6977.007	115342.9	9764.440	5603.406	5129.672
Stddev	12.298	424.5	37.500	13.441	7.024
%RSD	.1762670	.3680347	.3840429	.2398710	.1369301
#1	6988.811	114967.2	9725.157	5589.208	5130.909
#2	6964.268	115258.2	9768.308	5605.076	5122.112
#3	6977.941	115803.4	9799.856	5615.934	5135.996

Reviewed By:
On:
Inst Id :P4
LB :LB137573

Sample Name: Q3348-08A Acquired: 10/16/2025 16:53:05 Type: Unk
Method: 6010-200.7 NEW(v286) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7732524	2.052930	.8858121	1.926926	.8063628	1.943459	.1830917
Stddev	.0015419	.041558	.0023099	.000724	.0021045	.015264	.0022187
%RSD	.1994023	2.024322	.2607663	.0375710	.2609851	.7853815	1.211802
#1	.7747110	2.082084	.8883148	1.927762	.8087354	1.940613	.1837179
#2	.7716389	2.005344	.8837621	1.926481	.8056310	1.959946	.1849301
#3	.7734074	2.071362	.8853593	1.926536	.8047218	1.929819	.1806272

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1900891	.1746988	.9947162	.4004590	.1853916	.3037114	2.907996
Stddev	.0017803	.0001434	.0033178	.0036799	.0001492	.0005883	.003713
%RSD	.9365793	.0820787	.3335403	.9189087	.0804746	.1936964	.1276837
#1	.1920054	.1748382	.9915050	.4024512	.1854459	.3036755	2.904553
#2	.1897753	.1745517	.9945123	.4027132	.1852229	.3043167	2.911930
#3	.1884865	.1747066	.9981312	.3962126	.1855061	.3031418	2.907505

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1974077	1.918156	.4597651	.0720986	2.591275	.2960570	.2025962
Stddev	.0013665	.020636	.0009791	.0004901	.014543	.0032051	.0020122
%RSD	.6922191	1.075842	.2129486	.6796958	.5612259	1.082602	.9931857
#1	.1987694	1.917902	.4590590	.0719117	2.575528	.2935863	.2045957
#2	.1974172	1.938918	.4608828	.0726546	2.604200	.2996786	.2026212
#3	.1960365	1.897648	.4593535	.0717294	2.594097	.2949060	.2005716

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	8.951574	.2642915	.4374415	.6341357	.1896454	.8659453	5.086504
Stddev	.031502	.0022257	.0001722	.0012223	.0015361	.0027040	.014449
%RSD	.3519117	.8421466	.0393602	.1927495	.8099980	.3122588	.2840710
#1	8.919305	.2668378	.4374515	.6328992	.1886916	.8645283	5.103128
#2	8.982248	.2633206	.4376085	.6341646	.1914174	.8690633	5.076955
#3	8.953168	.2627163	.4372646	.6353433	.1888272	.8642444	5.079430

Reviewed By:
On:
Inst Id :P4
LB :LB137573

Sample Name: Q3348-08A Acquired: 10/16/2025 16:53:05 Type: Unk
Method: 6010-200.7 NEW(v286) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0149596	.1799878	.1885089
Stddev	.0028756	.0016624	.0005776
%RSD	19.22231	.9236430	.3064237
#1	.0144919	.1785287	.1891608
#2	.0180404	.1796371	.1883051
#3	.0123465	.1817976	.1880608

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5495.528	91459.93	6860.779	4280.991	7017.797
Stddev	7.503	546.72	59.359	40.782	2.582
%RSD	.1365376	.5977740	.8651929	.9526408	.0367880
#1	5500.191	91205.70	6799.019	4254.941	7015.980
#2	5486.872	91086.60	6865.914	4260.041	7016.658
#3	5499.520	92087.47	6917.403	4327.990	7020.752

Reviewed By:
On:
Inst Id :P4
LB :LB137573

Sample Name: Q3356-01LX5 Acquired: 10/16/2025 16:57:06 Type: Unk
Method: 6010-200.7 NEW(v286) 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	.0763302	-.001811	.6070824	.0078472	-.010408	90.70769
Stddev	.0018781	.003828	.0014337	.0025974	.002320	.14106
%RSD	2.460478	211.3284	.2361570	33.09960	22.29262	.1555092
#1	.0751194	.001531	.6055872	.0076780	-.010944	90.65841
#2	.0753775	-.000977	.6084453	.0105251	-.007866	90.86677
#3	.0784937	-.005988	.6072148	.0053386	-.012413	90.59788

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6578848	.0066112	.0035084	95.91718	.2761693	.0394519
Stddev	.0042271	.0001257	.0000600	.17214	.0006208	.0002983
%RSD	.6425372	1.900655	1.709576	.1794701	.2247923	.7561163
#1	.6611366	.0064711	.0035029	95.93455	.2760709	.0393746
#2	.6594115	.0066488	.0034513	96.07998	.2768335	.0391999
#3	.6531064	.0067139	.0035709	95.73701	.2756036	.0397813

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2099655	139.1401	.9067445	19.02160	.0890678	-.022002
Stddev	.0003170	1.2286	.0022124	.05844	.0006146	.000258
%RSD	.1509769	.8830171	.2439953	.3072366	.6900808	1.171994
#1	.2098980	139.9148	.9077567	19.00964	.0884874	-.022002
#2	.2096876	139.7821	.9082697	18.97007	.0890044	-.022260
#3	.2103108	137.7235	.9042070	19.08510	.0897118	-.021744

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	24.94631	.3235490	.7163635	16.71778	.1721326	.0028679
Stddev	.36111	.0027223	.0021125	.13140	.0056666	.0000803
%RSD	1.447529	.8413893	.2948961	.7859832	3.292005	2.798386
#1	25.17179	.3205366	.7139409	16.79026	.1760949	.0028148
#2	25.13732	.3258332	.7178218	16.79699	.1746610	.0029603
#3	24.52982	.3242770	.7173279	16.56611	.1656420	.0028287

Reviewed By:
On:
Inst Id :P4
LB :LB137573

Sample Name: Q3356-01LX5 Acquired: 10/16/2025 16:57:06 Type: Unk
Method: 6010-200.7 NEW(v286) 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	.0125876	.6538773	F 34.59980	4.956535	F 13.04005	.0774846
Stddev	.0010238	.0049033	.30134	.017866	.09329	.0009983
%RSD	8.133362	.7498832	.8709195	.3604528	.7154424	1.288426
#1	.0125966	.6588680	34.67603	4.949444	13.06428	.0774287
#2	.0115593	.6536977	34.85570	4.943303	12.93703	.0785097
#3	.0136069	.6490663	34.26767	4.976858	13.11884	.0765154

Elem	Sr4077
Units	ppm
Avg	.4148064
Stddev	.0025565
%RSD	.6163197
#1	.4169961
#2	.4154261
#3	.4119970

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5979.227	96646.74	7877.715	4632.867	6224.055
Stddev	2.630	428.65	14.419	19.067	10.631
%RSD	.0439829	.4435228	.1830304	.4115584	.1708048
#1	5980.630	96525.26	7892.934	4651.606	6226.834
#2	5980.857	96291.94	7875.951	4613.488	6233.021
#3	5976.193	97123.02	7864.259	4633.506	6212.311

Reviewed By:
On:
Inst Id :P4
LB :LB137573

Sample Name: Q3356-01MS Acquired: 10/16/2025 17:01:08 Type: Unk
Method: 6010-200.7 NEW(v286) 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	**.8340731**	**1.962420**	**4.017405**	**1.252346**	**.0507467**	**390.4456**
Stddev	.0031988	.075323	.001752	.002858	.0027635	4.7573
%RSD	.3835142	3.838259	.0435986	.2282138	5.445694	1.218438
#1	.8334238	1.890320	4.015619	1.254271	.0518609	384.9633
#2	.8312488	1.956342	4.017477	1.253705	.0476000	393.4877
#3	.8375468	2.040597	4.019120	1.249062	.0527791	392.8857

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.989043**	**.1619600**	**.2348761**	**381.4814**	**1.291423**	**.4205531**
Stddev	.006402	.0010753	.0004564	5.2350	.003292	.0004970
%RSD	.2141744	.6639365	.1943305	1.372271	.2549362	.1181904
#1	2.982523	.1608901	.2344007	380.7328	1.294197	.4209539
#2	2.989284	.1630407	.2349166	387.0503	1.292287	.4199969
#3	2.995320	.1619492	.2353109	376.6610	1.287785	.4207085

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.9189985**	**563.3725**	**3.756108**	**76.56162**	**.9815869**	**-.027994**
Stddev	.0003540	1.7091	.008691	.19214	.0010700	.000462
%RSD	.0385150	.3033735	.2313908	.2509624	.1090083	1.649761
#1	.9188454	565.1185	3.749592	76.41326	.9818090	-.027495
#2	.9194032	561.7028	3.752758	76.77866	.9804233	-.028082
#3	.9187469	563.2963	3.765976	76.49294	.9825284	-.028406

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**117.3988**	**1.485981**	**2.989620**	**81.87346**	**^ *****	**.1881177**
Stddev	.5233	.008443	.006938	.43233	-----	.0005086
%RSD	.4457527	.5681890	.2320839	.5280420	-----	.2703625
#1	117.7601	1.483776	2.996684	82.26601	.8430458	.1878097
#2	116.7987	1.495308	2.982814	81.41010	^ -----	.1878386
#3	117.6375	1.478859	2.989362	81.94427	^ -----	.1887047

Reviewed By:
On:
Inst Id :P4
LB :LB137573

Sample Name: Q3356-01MS Acquired: 10/16/2025 17:01:08 Type: Unk
Method: 6010-200.7 NEW(v286) 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	.0817124	3.009260	F 172.0645	F 33.19249	F 70.76236	.4674650
Stddev	.0019087	.009749	.7096	.04873	.32939	.0019582
%RSD	2.335840	.3239732	.4124159	.1468118	.4654818	.4189020
#1	.0810499	3.011781	172.8809	33.22771	70.41133	.4664340
#2	.0802232	3.017502	171.7166	33.21289	70.81107	.4662376
#3	.0838640	2.998499	171.5959	33.13688	71.06468	.4697233

Elem	Sr4077
Units	ppm
Avg	1.871809
Stddev	.023519
%RSD	1.256506
#1	1.868327
#2	1.896876
#3	1.850225

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6891.417	112579.3	9564.801	5464.935	4898.847
Stddev	15.443	460.4	43.121	28.505	9.394
%RSD	.2240875	.4089606	.4508295	.5215958	.1917670
#1	6873.832	112117.4	9588.989	5433.192	4888.106
#2	6902.770	112582.4	9515.015	5473.269	4905.530
#3	6897.648	113038.2	9590.398	5488.344	4902.905

Reviewed By:
On:
Inst Id :P4
LB :LB137573

Sample Name: Q3356-01MSD Acquired: 10/16/2025 17:05:27 Type: Unk
Method: 6010-200.7 NEW(v286) 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	.7964507	1.821719	3.622861	1.196619	-.002641	359.5037
Stddev	.0012488	.015490	.006972	.003125	.001352	.8069
%RSD	.1567952	.8503033	.1924312	.2611647	51.21717	.2244353
#1	.7963620	1.828699	3.616509	1.199799	-.002766	359.0508
#2	.7977415	1.832492	3.621755	1.196505	-.001230	359.0251
#3	.7952487	1.803967	3.630319	1.193552	-.003926	360.4353

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.775284	.1540795	.2111114	352.5107	1.202930	.3798674
Stddev	.024297	.0007899	.0007147	.5204	.003807	.0005615
%RSD	.8754878	.5126544	.3385559	.1476228	.3164639	.1478090
#1	2.792166	.1532171	.2103047	352.7321	1.203290	.3792321
#2	2.786248	.1542536	.2116654	352.8838	1.198957	.3800729
#3	2.747436	.1547678	.2113643	351.9162	1.206545	.3802972

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8683217	520.6482	3.503858	70.34047	.8839573	-.025702
Stddev	.0045475	3.7789	.024453	.15946	.0018236	.000510
%RSD	.5237081	.7258030	.6978887	.2266981	.2063044	1.982963
#1	.8632367	524.6416	3.518684	70.16786	.8820524	-.025287
#2	.8697301	520.1744	3.517257	70.37127	.8841325	-.025548
#3	.8719984	517.1286	3.475634	70.48228	.8856870	-.026271

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	106.2118	1.390505	2.788697	75.37510	.7592889	.1842658
Stddev	1.3009	.002644	.005995	.59108	.0192233	.0006676
%RSD	1.224773	.1901305	.2149843	.7841798	2.531753	.3622787
#1	107.5512	1.387857	2.783071	76.03834	.7810792	.1834962
#2	106.1307	1.393145	2.795003	75.18296	.7520574	.1846890
#3	104.9533	1.390512	2.788017	74.90399	.7447300	.1846120

Reviewed By:
On:
Inst Id :P4
LB :LB137573

Sample Name: Q3356-01MSD Acquired: 10/16/2025 17:05:27 Type: Unk
Method: 6010-200.7 NEW(v286) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.737237	2.598135	F 128.3613	F 29.98342	F 63.42490	.4340526
Stddev	.011797	.012770	.4169	.12851	.13890	.0020455
%RSD	.2056276	.4914883	.3248204	.4286103	.2190050	.4712534
#1	5.725821	2.608321	128.8329	29.84253	63.55379	.4348972
#2	5.736508	2.602275	128.0417	30.01352	63.44312	.4355405
#3	5.749382	2.583809	128.2092	30.09422	63.27778	.4317201

Elem	Sr4077
Units	ppm
Avg	1.760913
Stddev	.032498
%RSD	1.845508
#1	1.758151
#2	1.794703
#3	1.729884

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	7129.790	117376.0	9764.520	5700.479	5288.975
Stddev	14.641	198.0	23.624	.733	12.191
%RSD	.2053428	.1686743	.2419342	.0128637	.2304973
#1	7141.686	117160.3	9789.463	5699.679	5302.940
#2	7113.439	117549.5	9742.485	5701.120	5280.455
#3	7134.244	117418.2	9761.612	5700.638	5283.531

Reviewed By:
On:
Inst Id :P4
LB :LB137573

Sample Name: PB170130BL Acquired: 10/16/2025 17:18:22 Type: Unk
Method: 6010-200.7 NEW(v286) 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	**-.002897**	**-.000198**	**-.000412**	**.0005477**	**-.001657**	**.0116218**
Stddev	.000445	.001318	.000811	.0022867	.000727	.0121468
%RSD	15.36182	664.0471	196.9637	417.4910	43.88967	104.5177
#1	-.002690	-.000802	-.001248	.0031448	-.002495	.0054412
#2	-.002593	-.001107	-.000361	-.000338	-.001273	.0038081
#3	-.003408	.001313	.000373	-.001163	-.001202	.0256160

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.009122**	**.0000295**	**.0000306**	**.0154046**	**.0001073**	**-.000019**
Stddev	.000422	.0000333	.0000311	.0138322	.0002189	.000076
%RSD	4.630944	112.9022	101.7581	89.79265	203.9811	409.4997
#1	-.009453	.0000556	.0000010	.0025895	.0003582	.000025
#2	-.008646	-.000008	.0000630	.0300681	-.000045	.000025
#3	-.009266	.000041	.0000277	.0135562	.000008	-.000106

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0001783**	**-.001034**	**-.000035**	**-.007968**	**.0001454**	**-.000784**
Stddev	.0005323	.005195	.000434	.015085	.0003104	.000254
%RSD	298.5889	502.3072	1227.979	189.3067	213.4643	32.44341
#1	-.000153	-.003295	-.000444	-.021477	.0004354	-.000567
#2	.000792	.004908	.000420	.008308	.0001829	-.000720
#3	-.000104	-.004717	-.000082	-.010736	-.000182	-.001064

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2145383**	**-.002151**	**.0004302**	**.3135282**	**-.002194**	**-.000187**
Stddev	.0122229	.001113	.0000282	.0225390	.000593	.000197
%RSD	5.697304	51.74176	6.543952	7.188833	27.02449	105.4597
#1	.2030651	-.001885	.0004127	.3201730	-.002781	-.000380
#2	.2131562	-.003373	.0004153	.2884138	-.002206	.000014
#3	.2273934	-.001195	.0004627	.3319978	-.001595	-.000194

Reviewed By:
On:
Inst Id :P4
LB :LB137573

Sample Name: PB170130BL Acquired: 10/16/2025 17:18:22 Type: Unk
Method: 6010-200.7 NEW(v286) 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	.0100999	.0003366	-.005625	.0012816	F .0494545	.0033167
Stddev	.0009162	.0015507	.015100	.0005724	.0022620	.0021297
%RSD	9.070844	460.6879	268.4371	44.65804	4.573817	64.21150
#1	.0109013	.0001994	-.017514	.0008697	.0516627	.0020205
#2	.0091012	-.001141	-.010725	.0010400	.0495583	.0057746
#3	.0102971	.001951	.011364	.0019352	.0471424	.0021550

Elem	Sr4077
Units	ppm
Avg	.0000328
Stddev	.0000777
%RSD	236.8118
#1	.0000328
#2	-.000045
#3	.000110

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5650.284	92301.09	6836.990	4417.031	7320.377
Stddev	10.999	297.06	63.989	14.327	13.200
%RSD	.1946573	.3218428	.9359231	.3243494	.1803214
#1	5657.517	92359.92	6808.893	4403.885	7332.577
#2	5637.627	91979.01	6910.220	4414.906	7306.364
#3	5655.707	92564.33	6791.856	4432.301	7322.190

Reviewed By:
On:
Inst Id :P4
LB :LB137573

Sample Name: PB170130BS Acquired: 10/16/2025 17:22:41 Type: Unk
Method: 6010-200.7 NEW(v286) 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	**.7462715**	**2.053487**	**.8798625**	**1.921817**	**.7724330**	**1.833544**
Stddev	.0019308	.056129	.0012889	.001988	.0017266	.005097
%RSD	.2587195	2.733335	.1464899	.1034296	.2235324	.2779593
#1	.7476744	1.989431	.8800988	1.920709	.7739506	1.827842
#2	.7470706	2.094063	.8810170	1.924112	.7705544	1.837655
#3	.7440695	2.076967	.8784719	1.920630	.7727939	1.835134

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1737772**	**.1933131**	**.1729474**	**.9487319**	**.3725980**	**.1791919**
Stddev	.0008945	.0010389	.0002589	.0195840	.0007196	.0003345
%RSD	.5147258	.5374242	.1496882	2.064233	.1931223	.1866412
#1	.1730678	.1921155	.1732427	.9353362	.3734213	.1788665
#2	.1747820	.1939728	.1728401	.9396516	.3722834	.1795347
#3	.1734817	.1938510	.1727594	.9712080	.3720893	.1791744

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2928968**	**2.771852**	**.1879142**	**1.849941**	**.4493288**	**.0719692**
Stddev	.0011230	.016675	.0008634	.028964	.0005356	.0001260
%RSD	.3834121	.6015875	.4594721	1.565690	.1191977	.1750980
#1	.2941314	2.791105	.1878830	1.852465	.4499222	.0718473
#2	.2926230	2.762007	.1887928	1.877560	.4491829	.0720990
#3	.2919360	2.762443	.1870668	1.819797	.4488812	.0719614

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.752893**	**.2745640**	**.1947187**	**8.889987**	**.2833686**	**.3800261**
Stddev	.005236	.0035777	.0003925	.013311	.0021066	.0004367
%RSD	.1902169	1.303045	.2015479	.1497316	.7434112	.1149017
#1	2.758776	.2750727	.1942901	8.878693	.2809485	.3804306
#2	2.751160	.2707591	.1948058	8.904663	.2847911	.3800847
#3	2.748742	.2778600	.1950604	8.886604	.2843661	.3795632

Reviewed By:
On:
Inst Id :P4
LB :LB137573

Sample Name: PB170130BS Acquired: 10/16/2025 17:22:41 Type: Unk
Method: 6010-200.7 NEW(v286) 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	.6223561	.1772629	.7894385	5.347598	F .0411370	.1847138
Stddev	.0004501	.0012565	.0103245	.009163	.0039837	.0015823
%RSD	.0723201	.7088648	1.307832	.1713549	9.683946	.8566172
#1	.6228691	.1776403	.7785828	5.337037	.0431387	.1831136
#2	.6220277	.1758609	.7991338	5.353440	.0437229	.1847500
#3	.6221714	.1782875	.7905990	5.352317	.0365494	.1862776

Elem	Sr4077
Units	ppm
Avg	.1798795
Stddev	.0005974
%RSD	.3321195
#1	.1799475
#2	.1804400
#3	.1792510

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5566.233	90949.42	6832.284	4405.956	6956.377
Stddev	13.960	163.70	37.935	2.951	16.915
%RSD	.2507892	.1799858	.5552339	.0669802	.2431608
#1	5553.080	90773.67	6875.008	4409.327	6940.266
#2	5564.740	90977.06	6802.553	4404.704	6954.869
#3	5580.879	91097.55	6819.289	4403.837	6973.996

Reviewed By:
On:
Inst Id :P4
LB :LB137573

Sample Name: Q3355-01 Acquired: 10/16/2025 17:26:42 Type: Unk
Method: 6010-200.7 NEW(v286) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0312688**	**-.003824**	**.2178789**	**.0022137**	**-.015536**	**76.02815**	**.3520891**
Stddev	.0008463	.002877	.0013714	.0011867	.001266	.17105	.0008772
%RSD	2.706447	75.21526	.6294260	53.60640	8.152040	.2249841	.2491353
#1	.0320566	-.007118	.2163197	.0012869	-.016973	75.86892	.3529307
#2	.0313755	-.001808	.2188982	.0018030	-.015049	76.20897	.3511802
#3	.0303742	-.002547	.2184186	.0035512	-.014585	76.00657	.3521564

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0086719**	**.0087843**	**29.48505**	**.1175573**	**.0908019**	**.2037847**	**186.7155**
Stddev	.0001069	.0000700	.05969	.0004848	.0001482	.0011742	.4738
%RSD	1.232815	.7970983	.2024268	.4124117	.1632528	.5762167	.2537434
#1	.0085627	.0087090	29.43774	.1171450	.0909206	.2027433	187.1899
#2	.0087764	.0087962	29.55211	.1174353	.0906357	.2035534	186.2424
#3	.0086766	.0088475	29.46529	.1180914	.0908492	.2050573	186.7142

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.116025**	**22.08022**	**.1289985**	**-.034008**	**5.095503**	**.2377395**	**.3249534**
Stddev	.009243	.06820	.0006533	.000396	.043976	.0028025	.0009941
%RSD	.4367889	.3088722	.5064429	1.163180	.8630366	1.178822	.3059304
#1	2.118853	22.00366	.1289470	-.033679	5.146209	.2346021	.3240694
#2	2.123523	22.13447	.1296760	-.033899	5.067782	.2399950	.3247612
#3	2.105699	22.10253	.1283725	-.034447	5.072519	.2386213	.3260296

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**6.515833**	**.1047155**	**.0077211**	**.0065858**	**3.494869**	**8.334303**	**6.399678**
Stddev	.041427	.0015718	.0001283	.0005288	.009515	.149638	.026925
%RSD	.6357971	1.500984	1.662063	8.029258	.2722430	1.795448	.4207221
#1	6.547035	.1058843	.0075735	.0070833	3.502552	8.494706	6.411742
#2	6.468831	.1053337	.0078059	.0066436	3.497830	8.198471	6.368830
#3	6.531633	.1029287	.0077840	.0060305	3.484226	8.309734	6.418461

Reviewed By:
On:
Inst Id :P4
LB :LB137573

Sample Name: Q3355-01 Acquired: 10/16/2025 17:26:42 Type: Unk
Method: 6010-200.7 NEW(v286) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	1.793081	.0724621	-.078502
Stddev	.008906	.0006766	.000616
%RSD	.4966890	.9336740	.7844300
#1	1.793279	.0732258	-.078228
#2	1.784078	.0722231	-.078072
#3	1.801886	.0719376	-.079208

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	7409.012	119893.9	9145.277	5799.432	6161.183
Stddev	9.472	200.2	36.294	6.349	7.537
%RSD	.1278487	.1669453	.3968597	.1094717	.1223306
#1	7408.410	120019.3	9175.469	5806.688	6153.594
#2	7418.771	119999.4	9105.010	5796.710	6168.667
#3	7399.855	119663.1	9155.352	5794.899	6161.288

Reviewed By:
On:
Inst Id :P4
LB :LB137573

Sample Name: Q3356-01A Acquired: 10/16/2025 17:30:44 Type: Unk
Method: 6010-200.7 NEW(v286) 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	**.8222243**	**1.786636**	**3.907679**	**1.244061**	**.0199051**	**384.3776**
Stddev	.0011381	.101024	.006635	.012547	.0050989	2.9914
%RSD	.1384219	5.654421	.1697925	1.008555	25.61601	.7782526
#1	.8222943	1.877450	3.915251	1.248111	.0193209	386.9179
#2	.8210527	1.677823	3.902884	1.229989	.0252709	381.0805
#3	.8233257	1.804636	3.904902	1.254083	.0151234	385.1345

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.823182**	**.1597734**	**.2290600**	**370.4203**	**1.306643**	**.4082292**
Stddev	.039471	.0012072	.0003042	3.7509	.001469	.0005558
%RSD	1.398118	.7555752	.1328220	1.012613	.1124513	.1361509
#1	2.868677	.1608945	.2293310	374.0104	1.306993	.4088709
#2	2.798060	.1599304	.2287309	370.7234	1.307905	.4079162
#3	2.802808	.1584954	.2291180	366.5270	1.305030	.4079004

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.9045841**	**551.4238**	**3.588410**	**75.59641**	**.9544636**	**-.030840**
Stddev	.0013629	3.5197	.048673	.47095	.0006875	.000411
%RSD	.1506670	.6382859	1.356397	.6229830	.0720298	1.333760
#1	.9030260	555.2342	3.644417	76.14021	.9552559	-.030516
#2	.9051714	548.2945	3.564467	75.32313	.9540232	-.031303
#3	.9055549	550.7426	3.556346	75.32588	.9541118	-.030702

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**112.3785**	**1.467264**	**2.971434**	**80.09759**	**^ *****	**.1905250**
Stddev	1.2161	.010455	.002709	.71664	-----	.0004581
%RSD	1.082154	.7125449	.0911668	.8947065	-----	.2404441
#1	113.6859	1.479331	2.974166	80.81127	^ -----	.1907263
#2	111.2810	1.461544	2.968749	79.37803	^ -----	.1900007
#3	112.1686	1.460917	2.971386	80.10346	^ -----	.1908479

Reviewed By:
On:
Inst Id :P4
LB :LB137573

Sample Name: Q3356-01A Acquired: 10/16/2025 17:30:44 Type: Unk
Method: 6010-200.7 NEW(v286) 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	2.880704	2.833547	F 159.1809	F 31.83997	F 67.07554	.4480818
Stddev	.010061	.032667	.5061	.10377	.60542	.0069036
%RSD	.3492591	1.152874	.3179391	.3259218	.9025950	1.540710
#1	2.886492	2.871215	159.4947	31.88003	67.28774	.4553168
#2	2.869086	2.812987	158.5971	31.72214	66.39258	.4415658
#3	2.886533	2.816439	159.4509	31.91774	67.54629	.4473629

Elem	Sr4077
Units	ppm
Avg	1.776165
Stddev	.030593
%RSD	1.722399
#1	1.811201
#2	1.762551
#3	1.754741

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6908.984	111989.1	9667.202	5251.596	5007.891
Stddev	10.014	282.3	80.466	5.011	10.001
%RSD	.1449362	.2520861	.8323633	.0954266	.1997014
#1	6898.882	111688.1	9588.148	5247.878	4996.412
#2	6909.164	112031.4	9664.449	5249.615	5012.541
#3	6918.907	112247.9	9749.010	5257.295	5014.720

Reviewed By:
On:
Inst Id :P4
LB :LB137573

Sample Name: CCV06 Acquired: 10/16/2025 17:49:09 Type: Unk
Method: 6010-200.7 NEW(v286) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCV06 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.808683**	**5.039339**	**4.654786**	**4.915989**	**4.911835**	**9.401030**	**9.325825**
Stddev	.021444	.065015	.019599	.027080	.027791	.014994	.023880
%RSD	.4459407	1.290140	.4210482	.5508540	.5657980	.1594932	.2560598
#1	4.815944	5.098416	4.647161	4.919748	4.912560	9.411541	9.352489
#2	4.784551	4.969684	4.640146	4.887225	4.883688	9.383860	9.306409
#3	4.825554	5.049917	4.677052	4.940992	4.939256	9.407689	9.318576

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2405995**	**2.299050**	**23.38451**	**.9317546**	**2.318657**	**1.190754**	**4.721121**
Stddev	.0018933	.008056	.07725	.0030664	.010150	.004945	.026831
%RSD	.7869004	.3504081	.3303472	.3290982	.4377740	.4152486	.5683215
#1	.2420294	2.296129	23.47109	.9293282	2.314584	1.190281	4.694872
#2	.2413166	2.292861	23.35980	.9307347	2.311175	1.186064	4.719992
#3	.2384524	2.308159	23.32264	.9352010	2.330211	1.195919	4.748499

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.357647**	**23.27653**	**2.313386**	**1.204338**	**22.79354**	**2.361148**	**2.400221**
Stddev	.002685	.11378	.009477	.002055	.26141	.008306	.006687
%RSD	.1138664	.4888216	.4096701	.1706271	1.146849	.3517634	.2785817
#1	2.360368	23.31006	2.311635	1.201965	22.70348	2.369418	2.392693
#2	2.355000	23.36978	2.304907	1.205536	22.58907	2.361218	2.402499
#3	2.357575	23.14976	2.323617	1.205513	23.08808	2.352807	2.405470

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**23.09211**	**4.886774**	**4.789131**	**4.662435**	**4.688587**	**4.689873**	**4.877969**
Stddev	.21248	.044791	.019883	.021994	.004261	.060510	.017922
%RSD	.9201301	.9165813	.4151797	.4717185	.0908815	1.290232	.3674108
#1	22.98719	4.915022	4.785227	4.674828	4.693507	4.642164	4.877561
#2	22.95251	4.910172	4.771489	4.637042	4.686052	4.669519	4.860254
#3	23.33664	4.835130	4.810677	4.675436	4.686203	4.757936	4.896091

Reviewed By:
On:
Inst Id :P4
LB :LB137573

Sample Name: CCV06 Acquired: 10/16/2025 17:49:09 Type: Unk
Method: 6010-200.7 NEW(v286) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCV06 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	**4.814216**	**4.589427**	**4.776183**
Stddev	.009040	.015122	.089603
%RSD	.1877685	.3295025	1.876035
#1	4.823446	4.605866	4.809408
#2	4.805379	4.576109	4.674713
#3	4.813822	4.586307	4.844427

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5689.698**	**92947.73**	**7118.117**	**4427.382**	**6633.042**
Stddev	21.073	302.34	56.375	26.919	18.203
%RSD	.3703786	.3252845	.7919995	.6080043	.2744241
#1	5685.231	93155.16	7080.751	4444.863	6628.759
#2	5712.647	93087.21	7090.637	4440.899	6653.004
#3	5671.216	92600.82	7182.963	4396.383	6617.363

Reviewed By:
On:
Inst Id :P4
LB :LB137573

Sample Name: CCB06 Acquired: 10/16/2025 17:53:11 Type: Unk
Method: 6010-200.7 NEW(v286) 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	**-.001262**	**.0015782**	**-.001419**	**-.001395**	**-.002868**	**.0146913**
Stddev	.001550	.0014455	.001011	.001984	.001333	.0110242
%RSD	122.7616	91.59090	71.22995	142.2325	46.47878	75.03870
#1	-.002032	.0000189	-.002048	.000582	-.001608	.0272631
#2	.000521	.0018424	-.001958	-.001381	-.004264	.0101360
#3	-.002276	.0028734	-.000253	-.003386	-.002733	.0066748

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.006207**	**-.000002**	**.0000182**	**.0167965**	**.0000778**	**.0000399**
Stddev	.000653	.000061	.0000261	.0063530	.0001409	.0000844
%RSD	10.52597	2752.342	143.8448	37.82362	180.9992	211.2424
#1	-.006954	-.000026	-.000010	.0109373	.0002115	.0001364
#2	-.005925	-.000047	.000041	.0159033	-.000069	.0000036
#3	-.005743	.000067	.000024	.0235488	.000091	-.000020

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000139**	**.0286707**	**-.000253**	**.0036966**	**.0001159**	**-.000223**
Stddev	.000059	.0057098	.000198	.0104100	.0000608	.000099
%RSD	42.39683	19.91524	78.36316	281.6108	52.41326	44.41134
#1	-.000198	.0343107	-.000053	.0071856	.0000765	-.000145
#2	-.000139	.0228935	-.000449	-.008010	.0000854	-.000334
#3	-.000080	.0288078	-.000256	.011914	.0001859	-.000189

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0668147**	**-.000135**	**.0002189**	**.1494268**	**.0093694**	**.0002332**
Stddev	.0071110	.001941	.0001633	.0471119	.0002526	.0000713
%RSD	10.64290	1432.842	74.61804	31.52838	2.695580	30.58596
#1	.0619649	.000433	.0002401	.1220651	.0092817	.0001722
#2	.0635015	.001457	.0003706	.1223888	.0096541	.0002159
#3	.0749777	-.002297	.0000460	.2038266	.0091723	.0003117

Reviewed By:
On:
Inst Id :P4
LB :LB137573

Sample Name: CCB06 Acquired: 10/16/2025 17:53:11 Type: Unk
Method: 6010-200.7 NEW(v286) 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	.0011067	-.000626	.0059457	.0025518	F .0214378	-.000455
Stddev	.0003203	.000798	.0098785	.0005484	.0013834	.001685
%RSD	28.94158	127.4563	166.1453	21.49123	6.453101	370.2864
#1	.0008460	.000096	.0173489	.0030539	.0226631	-.002399
#2	.0010099	-.000490	-.000003	.0019666	.0217127	.000449
#3	.0014642	-.001482	.000491	.0026349	.0199376	.000585

Elem	Sr4077
Units	ppm
Avg	-.000030
Stddev	.000097
%RSD	321.9441
#1	-.000117
#2	-.000047
#3	.000074

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5772.460	93709.93	7218.570	4406.855	7449.014
Stddev	13.976	255.88	17.502	9.704	24.688
%RSD	.2421129	.2730559	.2424548	.2201969	.3314243
#1	5758.969	93995.18	7203.193	4417.170	7430.836
#2	5771.537	93633.98	7214.901	4397.908	7439.085
#3	5786.875	93500.62	7237.615	4405.488	7477.120

Reviewed By:
On:
Inst Id :P4
LB :LB137573

Sample Name: PB170129BL Acquired: 10/16/2025 17:57:30 Type: Unk
Method: 6010-200.7 NEW(v286) 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	**-.001280**	**.0005690**	**-.000436**	**.0015221**	**-.002621**	**-.000932**
Stddev	.000347	.0008862	.000197	.0011770	.001402	.004780
%RSD	27.11448	155.7342	45.20952	77.32628	53.50430	512.9521
#1	-.001052	-.000421	-.000325	.0025773	-.001319	-.005557
#2	-.001679	.000839	-.000320	.0017364	-.004105	-.001228
#3	-.001108	.001289	-.000664	.0002527	-.002439	.003989

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.009036**	**.0000898**	**.0000230**	**.0089878**	**.0001321**	**-.000105**
Stddev	.000607	.0000475	.0000352	.0024627	.0000846	.000181
%RSD	6.711962	52.86918	152.9624	27.40012	64.04441	171.6372
#1	-.009337	.0000380	-.000004	.0118232	.0001926	-.000069
#2	-.008338	.0001002	.000010	.0073824	.0000354	-.000301
#3	-.009434	.0001312	.000063	.0077578	.0001684	.000054

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000052**	**.0021651**	**.0002187**	**-.015194**	**-.000020**	**.0000219**
Stddev	.000130	.0053073	.0002424	.006794	.000476	.0004322
%RSD	247.6764	245.1325	110.8045	44.71272	2334.505	1969.606
#1	-.000201	-.001244	.0004930	-.022990	.000049	.0000165
#2	.000039	-.000540	.0000334	-.010536	.000417	.0004569
#3	.000004	.008280	.0001297	-.012057	-.000527	-.000408

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0423130**	**-.002840**	**.0001600**	**.1025405**	**.0041016**	**.0000013**
Stddev	.0120267	.002005	.0001456	.0271175	.0015811	.0000908
%RSD	28.42303	70.61761	90.97282	26.44562	38.54895	7113.200
#1	.0559127	-.000704	.0002707	.0731911	.0059273	.0001012
#2	.0379477	-.004681	.0002142	.1077644	.0031960	-.000021
#3	.0330787	-.003134	-.000005	.1266659	.0031815	-.000076

Reviewed By:
On:
Inst Id :P4
LB :LB137573

Sample Name: PB170129BL Acquired: 10/16/2025 17:57:30 Type: Unk
Method: 6010-200.7 NEW(v286) 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	-.001085	.0006803	-.003819	.0020140	F .0231315	-.003163
Stddev	.000254	.0012580	.003875	.0004037	.0016977	.001144
%RSD	23.40909	184.9126	101.4460	20.04341	7.339487	36.18145
#1	-.001232	.0013137	-.000212	.0024514	.0248286	-.001979
#2	-.001232	.0014958	-.007915	.0016557	.0214331	-.004263
#3	-.000792	-.000768	-.003331	.0019349	.0231329	-.003246

Elem	Sr4077
Units	ppm
Avg	-.000010
Stddev	.000035
%RSD	342.3228
#1	.000019
#2	-.000050
#3	-.000000

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5885.696	96581.68	7467.305	4607.806	7616.110
Stddev	7.124	120.19	189.177	13.418	4.033
%RSD	.1210444	.1244427	2.533402	.2912052	.0529473
#1	5893.917	96443.49	7372.159	4609.119	7620.766
#2	5881.333	96661.88	7685.167	4593.780	7613.803
#3	5881.836	96639.66	7344.589	4620.520	7613.761

Reviewed By:
On:
Inst Id :P4
LB :LB137573

Sample Name: Q3348-01 Acquired: 10/16/2025 18:05:51 Type: Unk
Method: 6010-200.7 NEW(v286) 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	.0461294	.0017020	.1305164	.0025163	-.015145	133.8419
Stddev	.0011625	.0035811	.0009358	.0010588	.003136	.3577
%RSD	2.520054	210.3999	.7169806	42.07511	20.70827	.2672524
#1	.0461304	-.000202	.1310096	.0027735	-.018172	133.4767
#2	.0472913	-.000524	.1311024	.0013527	-.015353	133.8575
#3	.0449664	.005833	.1294372	.0034228	-.011910	134.1916

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5052434	.0108475	.0065752	9.721429	.1451298	.0875218
Stddev	.0039255	.0000380	.0002245	.006806	.0006863	.0000774
%RSD	.7769537	.3503985	3.415022	.0700080	.4728618	.0884464
#1	.5096554	.0108078	.0063160	9.727813	.1454569	.0875371
#2	.5039377	.0108511	.0067005	9.714268	.1443411	.0874379
#3	.5021372	.0108835	.0067091	9.722205	.1455912	.0875904

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3243798	199.8026	4.028423	29.84422	.1849793	-.037740
Stddev	.0016656	1.9586	.022330	.14937	.0005434	.000403
%RSD	.5134747	.9802721	.5543013	.5004942	.2937842	1.067010
#1	.3225578	202.0564	4.054157	29.68600	.1844387	-.037377
#2	.3258241	198.8377	4.014161	29.86386	.1855255	-.038173
#3	.3247576	198.5136	4.016952	29.98279	.1849736	-.037670

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.810564	.2331564	.4404160	10.40835	.0248818	.0016440
Stddev	.067094	.0023582	.0014720	.11340	.0104644	.0001504
%RSD	1.394722	1.011430	.3342248	1.089479	42.05641	9.149951
#1	4.888037	.2341956	.4397450	10.51582	.0367945	.0016403
#2	4.771651	.2304570	.4421039	10.41941	.0206774	.0014955
#3	4.772004	.2348165	.4393990	10.28983	.0171735	.0017963

Reviewed By:
On:
Inst Id :P4
LB :LB137573

Sample Name: Q3348-01 Acquired: 10/16/2025 18:05:51 Type: Unk
Method: 6010-200.7 NEW(v286) 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	**.0044683**	**2.234798**	F **13.66777**	**4.622840**	**.3530601**	**.1618593**
Stddev	.0010054	.011017	.13160	.020002	.0000964	.0007043
%RSD	22.50097	.4929906	.9628390	.4326827	.0272930	.4351301
#1	.0043899	2.246727	13.81330	4.600935	.3529967	.1626272
#2	.0035044	2.232660	13.63287	4.627453	.3531710	.1612434
#3	.0055106	2.225006	13.55714	4.640133	.3530126	.1617073

Elem	Sr4077
Units	ppm
Avg	**-.105707**
Stddev	.000822
%RSD	.7779034
#1	-.106655
#2	-.105272
#3	-.105194

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**6259.426**	**101773.5**	**7294.727**	**5001.351**	**6202.625**
Stddev	8.989	379.2	43.155	.890	3.557
%RSD	.1436077	.3725508	.5915979	.0177904	.0573416
#1	6264.107	101434.4	7331.861	5000.908	6198.518
#2	6249.062	102182.9	7304.939	5002.375	6204.662
#3	6265.108	101703.4	7247.382	5000.770	6204.695

Reviewed By:
On:
Inst Id :P4
LB :LB137573

Sample Name: Q3348-01DUP Acquired: 10/16/2025 18:09:54 Type: Unk
Method: 6010-200.7 NEW(v286) 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	.0490462	-.002027	.1380095	.0048874	-.015902	141.3645
Stddev	.0016765	.004258	.0023268	.0005724	.001274	.0881
%RSD	3.418214	210.0673	1.685942	11.71182	8.012627	.0623146
#1	.0473829	-.000425	.1358277	.0046589	-.016902	141.4242
#2	.0507356	-.006853	.1404582	.0055387	-.014467	141.4060
#3	.0490200	.001198	.1377425	.0044645	-.016336	141.2633

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5480130	.0102342	.0039306	10.12925	.1522272	.0919581
Stddev	.0006095	.0001894	.0000327	.02681	.0001115	.0001766
%RSD	.1112247	1.850239	.8326811	.2646744	.0732684	.1920713
#1	.5486653	.0100385	.0039085	10.09830	.1521004	.0917834
#2	.5474579	.0104165	.0039682	10.14533	.1522708	.0919545
#3	.5479159	.0102475	.0039150	10.14412	.1523103	.0921366

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3327156	224.4700	4.037801	31.70153	.1960726	-.036268
Stddev	.0002510	1.1610	.010849	.12942	.0011364	.000456
%RSD	.0754458	.5172087	.2686967	.4082553	.5795848	1.256951
#1	.3324428	225.3209	4.025619	31.58967	.1953617	-.035992
#2	.3327673	224.9418	4.041361	31.84329	.1973833	-.036019
#3	.3329368	223.1474	4.046424	31.67164	.1954730	-.036794

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.678274	.2430886	.4539581	11.91868	.1161265	.0016046
Stddev	.073156	.0018217	.0014649	.12321	.0114839	.0001240
%RSD	1.288349	.7493809	.3226895	1.033760	9.889154	7.726549
#1	5.760493	.2446132	.4534086	12.06069	.1283150	.0016338
#2	5.653953	.2410713	.4556182	11.84016	.1145558	.0014686
#3	5.620377	.2435814	.4528473	11.85520	.1055088	.0017113

Reviewed By:
On:
Inst Id :P4
LB :LB137573

Sample Name: Q3348-01DUP Acquired: 10/16/2025 18:09:54 Type: Unk
Method: 6010-200.7 NEW(v286) 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	.0049530	2.343175	F 15.33326	4.675197	.3580571	.1754071
Stddev	.0009895	.018713	.15563	.025334	.0012688	.0013807
%RSD	19.97772	.7986221	1.014976	.5418733	.3543493	.7871519
#1	.0052118	2.358508	15.50706	4.674548	.3581674	.1768566
#2	.0057874	2.322323	15.28594	4.700849	.3592672	.1741074
#3	.0038598	2.348694	15.20678	4.650194	.3567368	.1752573

Elem	Sr4077
Units	ppm
Avg	-.120835
Stddev	.001162
%RSD	.9617917
#1	-.121858
#2	-.121075
#3	-.119571

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6368.735	101589.4	8051.585	4959.268	6269.023
Stddev	14.886	459.6	33.180	11.630	13.330
%RSD	.2337416	.4523706	.4120919	.2345031	.2126355
#1	6351.615	101091.0	8082.414	4945.916	6254.925
#2	6375.961	101680.7	8055.871	4964.695	6270.720
#3	6378.630	101996.5	8016.471	4967.191	6281.423

Reviewed By:
On:
Inst Id :P4
LB :LB137573

Sample Name: Q3348-01LX5 Acquired: 10/16/2025 18:13:56 Type: Unk
Method: 6010-200.7 NEW(v286) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0083140**	**.0021981**	**.0266301**	**.0015309**	**-.004491**	**31.53118**	**.1118154**
Stddev	.0017422	.0044967	.0003979	.0018774	.000678	.13374	.0005056
%RSD	20.95482	204.5725	1.494023	122.6293	15.08528	.4241463	.4521503
#1	.0063120	-.002843	.0266771	.0023660	-.004155	31.50424	.1115819
#2	.0094862	.005795	.0270024	.0028459	-.005271	31.67634	.1123956
#3	.0091439	.003643	.0262108	-.000619	-.004048	31.41296	.1114689

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0023512**	**.0001543**	**2.203987**	**.0344880**	**.0173564**	**.0758041**	**48.02634**
Stddev	.0000377	.0000432	.005395	.0001022	.0000033	.0004876	.42799
%RSD	1.602593	28.00849	.2447666	.2963149	.0192537	.6432949	.8911563
#1	.0023534	.0001591	2.209958	.0344049	.0173578	.0763535	48.50926
#2	.0023877	.0001088	2.199464	.0344571	.0173526	.0756363	47.87579
#3	.0023125	.0001948	2.202539	.0346021	.0173589	.0754225	47.69396

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.9132640**	**7.004184**	**.0369619**	**-.008324**	**1.191794**	**.0536167**	**.1020698**
Stddev	.0048934	.050322	.0003265	.000272	.014190	.0011114	.0001657
%RSD	.5358095	.7184598	.8833959	3.266265	1.190617	2.072905	.1623319
#1	.9116089	6.979039	.0372645	-.008598	1.205576	.0536383	.1019611
#2	.9187702	7.062123	.0370055	-.008054	1.177229	.0524947	.1019878
#3	.9094128	6.971390	.0366158	-.008321	1.192578	.0547172	.1022605

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.743296**	**.0219633**	**-.000007**	**.0079095**	**.5621405**	**5.999253**	**.8721467**
Stddev	.028277	.0022844	.000052	.0004733	.0068411	.096631	.0118375
%RSD	1.030758	10.40102	749.1964	5.984322	1.216965	1.610725	1.357283
#1	2.773437	.0241535	.000042	.0083185	.5698578	6.107268	.8834621
#2	2.717352	.0195951	-.000001	.0073910	.5568215	5.969477	.8731295
#3	2.739098	.0221415	-.000062	.0080190	.5597422	5.921014	.8598484

Reviewed By:
On:
Inst Id :P4
LB :LB137573

Sample Name: Q3348-01LX5 Acquired: 10/16/2025 18:13:56 Type: Unk
Method: 6010-200.7 NEW(v286) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0783381	.0329696	-.026132
Stddev	.0004245	.0019493	.000212
%RSD	.5418349	5.912368	.8109869
#1	.0778650	.0329315	-.026376
#2	.0784640	.0310396	-.026026
#3	.0786854	.0349376	-.025994

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6034.609	96972.63	7443.945	4632.756	7128.637
Stddev	23.794	450.40	71.451	22.922	21.592
%RSD	.3942971	.4644588	.9598538	.4947850	.3028918
#1	6025.342	96689.14	7496.588	4645.485	7115.858
#2	6016.841	96736.78	7362.608	4606.294	7116.487
#3	6061.642	97491.98	7472.640	4646.488	7153.567

Reviewed By:
On:
Inst Id :P4
LB :LB137573

Sample Name: Q3348-01MS Acquired: 10/16/2025 18:18:05 Type: Unk
Method: 6010-200.7 NEW(v286) 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	**.6743000**	**1.839410**	**1.030173**	**1.535993**	**.3205056**	**158.5807**
Stddev	.0021603	.060973	.002751	.008612	.0025142	.4468
%RSD	.3203722	3.314803	.2670703	.5606505	.7844355	.2817334
#1	.6741581	1.770747	1.033345	1.530729	.3202464	158.3466
#2	.6765277	1.887221	1.028433	1.545931	.3181311	158.2996
#3	.6722141	1.860261	1.028741	1.531319	.3231394	159.0959

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.7206855**	**.1698454**	**.1842649**	**12.34288**	**.4873942**	**.2920563**
Stddev	.0030866	.0011192	.0001247	.06536	.0007242	.0006138
%RSD	.4282908	.6589489	.0676743	.5295738	.1485755	.2101792
#1	.7238508	.1699947	.1843773	12.31695	.4879985	.2924791
#2	.7176840	.1686591	.1842866	12.29445	.4865916	.2923376
#3	.7205218	.1708825	.1841308	12.41723	.4875926	.2913522

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5797507**	**233.4632**	**4.551614**	**35.21564**	**.6687175**	**.0251190**
Stddev	.0005906	.1811	.018005	.10938	.0009055	.0004708
%RSD	.1018694	.0775630	.3955836	.3105941	.1354028	1.874367
#1	.5804317	233.6378	4.563499	35.21488	.6697620	.0248844
#2	.5794398	233.4755	4.530898	35.10664	.6682373	.0256610
#3	.5793804	233.2763	4.560445	35.32539	.6681534	.0248115

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**8.047904**	**.4901566**	**.6386038**	**21.66729**	**.3379506**	**.3122175**
Stddev	.033954	.0013151	.0018027	.10269	.0073220	.0008396
%RSD	.4218958	.2683034	.2822826	.4739367	2.166590	.2689031
#1	8.083737	.4916654	.6368503	21.71975	.3389113	.3125631
#2	8.043766	.4892534	.6404519	21.73315	.3447448	.3128292
#3	8.016208	.4895509	.6385091	21.54897	.3301957	.3112604

Reviewed By:
On:
Inst Id :P4
LB :LB137573

Sample Name: Q3348-01MS Acquired: 10/16/2025 18:18:05 Type: Unk
Method: 6010-200.7 NEW(v286) 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	.6096218	2.666411	F 16.93643	F 10.51329	.4157593	.3455110
Stddev	.0010618	.013500	.07057	.03528	.0027625	.0013185
%RSD	.1741651	.5063147	.4166817	.3355493	.6644556	.3816230
#1	.6084755	2.681377	16.88495	10.48086	.4134138	.3440115
#2	.6105715	2.662708	17.01688	10.55085	.4150597	.3460327
#3	.6098184	2.655149	16.90747	10.50817	.4188044	.3464889

Elem	Sr4077
Units	ppm
Avg	.0293701
Stddev	.0007250
%RSD	2.468432
#1	.0302066
#2	.0289248
#3	.0289788

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6417.598	103144.0	8258.865	5056.976	6208.537
Stddev	10.725	481.1	74.449	29.595	9.277
%RSD	.1671219	.4664000	.9014487	.5852258	.1494194
#1	6405.384	103058.7	8242.993	5071.230	6197.891
#2	6425.477	103662.0	8339.971	5022.951	6214.886
#3	6421.934	102711.3	8193.632	5076.746	6212.834

Reviewed By:
On:
Inst Id :P4
LB :LB137573

Sample Name: Q3348-01MSD Acquired: 10/16/2025 18:22:01 Type: Unk
Method: 6010-200.7 NEW(v286) 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	**.6423231**	**1.737684**	**.9766579**	**1.438237**	**.3048783**	**154.9311**
Stddev	.0013499	.055335	.0025137	.001806	.0021418	5.7108
%RSD	.2101588	3.184382	.2573747	.1255447	.7025104	3.686041
#1	.6408093	1.684337	.9774431	1.436265	.3046330	148.8260
#2	.6434017	1.733905	.9738454	1.438635	.3028697	160.1421
#3	.6427584	1.794812	.9786852	1.439810	.3071321	155.8253

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.7494399**	**.1639383**	**.1743334**	**11.05480**	**.4621630**	**.2731039**
Stddev	.0260536	.0038884	.0007743	.40061	.0017989	.0008628
%RSD	3.476414	2.371849	.4441389	3.623883	.3892430	.3159091
#1	.7219684	.1599642	.1744172	10.63451	.4636868	.2732753
#2	.7737953	.1677349	.1735206	11.43230	.4601785	.2721683
#3	.7525561	.1641157	.1750623	11.09761	.4626238	.2738681

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5549160**	**222.7220**	**4.446828**	**33.97397**	**.6325516**	**.0229547**
Stddev	.0017250	1.9201	.147317	1.15187	.0019139	.0014317
%RSD	.3108545	.8621032	3.312863	3.390462	.3025750	6.236859
#1	.5552776	220.5854	4.293999	32.74644	.6325253	.0214959
#2	.5530389	224.3032	4.587933	35.03123	.6306509	.0243575
#3	.5564316	223.2773	4.458552	34.14425	.6344785	.0230106

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**7.634338**	**.4738342**	**.6171370**	**20.22965**	**.3007158**	**.3022671**
Stddev	.029906	.0203831	.0018621	.12250	.0049059	.0006970
%RSD	.3917327	4.301744	.3017331	.6055233	1.631398	.2305943
#1	7.614184	.4513377	.6174456	20.09005	.3060911	.3017657
#2	7.668700	.4910745	.6151399	20.31916	.2964798	.3019727
#3	7.620131	.4790903	.6188256	20.27975	.2995766	.3030631

Reviewed By:
On:
Inst Id :P4
LB :LB137573

Sample Name: Q3348-01MSD Acquired: 10/16/2025 18:22:01 Type: Unk
Method: 6010-200.7 NEW(v286) 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	.5804370	2.574067	F 16.97581	9.973078	.4081463	.3254008
Stddev	.0029617	.093032	.23994	.076991	.0067036	.0093821
%RSD	.5102459	3.614199	1.413430	.7719913	1.642446	2.883245
#1	.5776766	2.479877	16.71029	9.907418	.4009134	.3151037
#2	.5800690	2.665896	17.17711	9.954003	.4141507	.3334650
#3	.5835655	2.576427	17.04001	10.05781	.4093747	.3276337

Elem	Sr4077
Units	ppm
Avg	.0264229
Stddev	.0065741
%RSD	24.88045
#1	.0196473
#2	.0327752
#3	.0268461

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6679.802	106438.1	8421.899	5215.759	6496.269
Stddev	14.180	166.7	214.038	25.314	19.973
%RSD	.2122871	.1566436	2.541447	.4853347	.3074528
#1	6687.403	106478.8	8645.194	5232.093	6506.966
#2	6688.561	106580.7	8218.508	5228.584	6508.615
#3	6663.442	106254.8	8401.993	5186.599	6473.226

Reviewed By:
On:
Inst Id :P4
LB :LB137573

Sample Name: Q3348-01A Acquired: 10/16/2025 18:25:58 Type: Unk
Method: 6010-200.7 NEW(v286) 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	**.6823420**	**1.801934**	**1.007054**	**1.574253**	**.6418738**	**134.3536**
Stddev	.0006383	.101240	.002567	.003280	.0011871	.5733
%RSD	.0935433	5.618398	.2549395	.2083287	.1849448	.4267016
#1	.6820406	1.687659	1.009880	1.571175	.6432302	133.6945
#2	.6819103	1.880412	1.006417	1.573882	.6413667	134.7372
#3	.6830752	1.837730	1.004866	1.577703	.6410244	134.6290

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.6598518**	**.1751894**	**.1820390**	**10.17051**	**.4662018**	**.2703165**
Stddev	.0062038	.0016794	.0002348	.08649	.0032891	.0002157
%RSD	.9401786	.9586432	.1290037	.8504211	.7054996	.0797982
#1	.6527236	.1732625	.1822395	10.07102	.4645537	.2705294
#2	.6640310	.1763420	.1820969	10.22783	.4640627	.2703220
#3	.6628008	.1759637	.1817806	10.21267	.4699891	.2700981

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5430988**	**213.5801**	**4.057204**	**31.27888**	**.6378841**	**.0299814**
Stddev	.0013667	1.7296	.046029	.19757	.0009785	.0005619
%RSD	.2516495	.8098016	1.134489	.6316470	.1534048	1.874202
#1	.5427417	212.6001	4.004860	31.05825	.6390140	.0293335
#2	.5446086	212.5631	4.075393	31.33892	.6373082	.0303351
#3	.5419461	215.5772	4.091359	31.43946	.6373302	.0302756

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**7.804415**	**.4694190**	**.5989344**	**19.70228**	**.3303315**	**.3350148**
Stddev	.054498	.0053553	.0011336	.02818	.0083548	.0002002
%RSD	.6982991	1.140829	.1892680	.1430240	2.529223	.0597598
#1	7.761213	.4637199	.6001146	19.71282	.3374917	.3351223
#2	7.786390	.4701903	.5978540	19.67035	.3211522	.3351384
#3	7.865642	.4743468	.5988347	19.72367	.3323507	.3347839

Reviewed By:
On:
Inst Id :P4
LB :LB137573

Sample Name: Q3348-01A Acquired: 10/16/2025 18:25:58 Type: Unk
Method: 6010-200.7 NEW(v286) 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	**.6495796**	**2.389489**	F **18.67966**	**9.982390**	**.3182220**	**.3207325**
Stddev	.0021959	.012803	.20663	.076963	.0036433	.0053965
%RSD	.3380525	.5358205	1.106174	.7709859	1.144903	1.682568
#1	.6501250	2.374722	18.90265	9.968983	.3161915	.3145598
#2	.6514513	2.396256	18.49466	10.06518	.3224281	.3230806
#3	.6471623	2.397489	18.64167	9.91301	.3160464	.3245573

Elem	Sr4077
Units	ppm
Avg	**.0409930**
Stddev	.0021778
%RSD	5.312584
#1	.0393548
#2	.0434644
#3	.0401599

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**6338.892**	**100408.6**	**7977.916**	**4895.437**	**6308.773**
Stddev	5.862	533.7	66.438	39.069	12.606
%RSD	.0924746	.5315661	.8327728	.7980638	.1998132
#1	6338.244	100643.3	8054.546	4892.224	6294.695
#2	6345.052	100784.8	7936.446	4936.013	6319.015
#3	6333.382	99797.8	7942.757	4858.074	6312.608

Reviewed By:
On:
Inst Id :P4
LB :LB137573

Sample Name: Q3348-05 Acquired: 10/16/2025 18:29:55 Type: Unk
Method: 6010-200.7 NEW(v286) 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	.0735758	.0085354	.7581701	.0140578	-.013942	192.8890
Stddev	.0018856	.0015395	.0013699	.0010310	.000957	.5109
%RSD	2.562852	18.03715	.1806843	7.333647	6.864629	.2648850
#1	.0723449	.0072168	.7577894	.0152432	-.012882	193.2417
#2	.0757466	.0102272	.7570308	.0133710	-.014743	192.3031
#3	.0726359	.0081621	.7596901	.0135590	-.014201	193.1223

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9211931	.0123081	.0088504	15.53128	.1892216	.1126089
Stddev	.0072642	.0000549	.0002988	.07843	.0005212	.0002154
%RSD	.7885690	.4462235	3.375980	.5049554	.2754526	.1912631
#1	.9281951	.0122532	.0086343	15.60331	.1890641	.1125052
#2	.9136924	.0123630	.0087255	15.44773	.1898034	.1124649
#3	.9216918	.0123080	.0091913	15.54279	.1887973	.1128565

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2417115	212.4141	3.851307	29.97274	.2212343	-.034320
Stddev	.0008094	1.6116	.030437	.12437	.0005064	.000768
%RSD	.3348630	.7586889	.7903153	.4149382	.2289098	2.237513
#1	.2408089	214.2749	3.880187	30.04826	.2209477	-.033450
#2	.2423729	211.4713	3.819520	29.82920	.2209362	-.034606
#3	.2419527	211.4961	3.854215	30.04077	.2218190	-.034903

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.985453	.3093476	.6747329	9.529386	.1138041	.0056334
Stddev	.089865	.0010389	.0013583	.052278	.0039042	.0002005
%RSD	.8999545	.3358376	.2013026	.5485930	3.430642	3.559326
#1	10.08796	.3105413	.6761708	9.587712	.1181117	.0058061
#2	9.92022	.3086475	.6734716	9.513691	.1128019	.0054135
#3	9.94818	.3088541	.6745563	9.486753	.1104987	.0056806

Reviewed By:
On:
Inst Id :P4
LB :LB137573

Sample Name: Q3348-05 Acquired: 10/16/2025 18:29:55 Type: Unk
Method: 6010-200.7 NEW(v286) 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	.0225999	2.382454	F 19.90564	F 10.77444	3.452590	.1775097
Stddev	.0007908	.010507	.13309	.00805	.014479	.0007374
%RSD	3.498907	.4410291	.6686120	.0746961	.4193617	.4154148
#1	.0231224	2.387033	19.98879	10.77233	3.439090	.1783425
#2	.0229872	2.370434	19.97601	10.76765	3.450800	.1772472
#3	.0216902	2.389895	19.75214	10.78333	3.467881	.1769395

Elem	Sr4077
Units	ppm
Avg	-.073517
Stddev	.001109
%RSD	1.508619
#1	-.074766
#2	-.073140
#3	-.072647

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	7305.168	115164.5	9319.735	5632.197	6241.551
Stddev	11.556	564.0	29.148	15.104	7.017
%RSD	.1581871	.4897380	.3127529	.2681660	.1124220
#1	7293.190	114618.1	9298.236	5621.176	6233.452
#2	7306.063	115130.7	9352.911	5626.003	6245.812
#3	7316.250	115744.6	9308.058	5649.413	6245.389

Reviewed By:
On:
Inst Id :P4
LB :LB137573

Sample Name: PB170129BS Acquired: 10/16/2025 18:34:30 Type: Unk
Method: 6010-200.7 NEW(v286) 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	**.7170017**	**1.924069**	**.8530320**	**1.834140**	**.7521560**	**1.760244**
Stddev	.0010325	.059859	.0004130	.001267	.0036608	.010084
%RSD	.1440039	3.111061	.0484109	.0691037	.4867093	.5728490
#1	.7158192	1.992729	.8533218	1.835590	.7479290	1.749652
#2	.7174615	1.896632	.8532151	1.833243	.7542447	1.761353
#3	.7177244	1.882847	.8525592	1.833587	.7542944	1.769728

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1637942**	**.1845632**	**.1691368**	**.9044778**	**.3661241**	**.1739135**
Stddev	.0010732	.0004628	.0002022	.0050056	.0009625	.0004014
%RSD	.6552387	.2507289	.1195614	.5534265	.2628986	.2307754
#1	.1627943	.1847071	.1689595	.9004782	.3651020	.1734501
#2	.1636600	.1849368	.1693571	.9028638	.3662571	.1741391
#3	.1649281	.1840455	.1690938	.9100913	.3670132	.1741512

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2835836**	**2.701317**	**.1783187**	**1.749526**	**.4370210**	**.0697072**
Stddev	.0009503	.014361	.0001892	.014835	.0012046	.0004483
%RSD	.3350853	.5316335	.1060940	.8479525	.2756354	.6430525
#1	.2825230	2.697628	.1781426	1.759213	.4358989	.0701809
#2	.2843574	2.717162	.1782947	1.732447	.4382938	.0692896
#3	.2838704	2.689160	.1785187	1.756919	.4368702	.0696512

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.755848**	**.2653659**	**.1898646**	**8.444304**	**.2693391**	**.3777695**
Stddev	.018332	.0035349	.0004524	.010723	.0011110	.0003709
%RSD	.6652021	1.332095	.2382703	.1269839	.4125005	.0981889
#1	2.753423	.2686843	.1893754	8.449868	.2705858	.3780885
#2	2.775272	.2657651	.1899503	8.431943	.2689780	.3773625
#3	2.738850	.2616484	.1902679	8.451101	.2684536	.3778576

Reviewed By:
On:
Inst Id :P4
LB :LB137573

Sample Name: PB170129BS Acquired: 10/16/2025 18:34:30 Type: Unk
Method: 6010-200.7 NEW(v286) 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	.6138588	.1731503	.7819410	5.049565	F .0257404	.1690690
Stddev	.0008550	.0017438	.0055476	.007220	.0028372	.0005998
%RSD	.1392908	1.007127	.7094669	.1429841	11.02244	.3547948
#1	.6148457	.1746017	.7767601	5.055358	.0284373	.1687780
#2	.6133416	.1712159	.7812690	5.051861	.0260028	.1686702
#3	.6133890	.1736334	.7877941	5.041476	.0227811	.1697589

Elem	Sr4077
Units	ppm
Avg	.1703268
Stddev	.0005179
%RSD	.3040734
#1	.1700220
#2	.1700335
#3	.1709248

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5798.459	93348.69	7179.273	4462.886	7228.824
Stddev	5.108	129.35	11.044	9.281	5.578
%RSD	.0880845	.1385651	.1538260	.2079607	.0771624
#1	5804.168	93481.66	7177.241	4466.984	7231.865
#2	5796.886	93223.30	7169.386	4469.413	7222.387
#3	5794.322	93341.11	7191.191	4452.262	7232.221

Reviewed By:
On:
Inst Id :P4
LB :LB137573

Sample Name: Q3346-01DLX5 Acquired: 10/16/2025 18:38:32 Type: Unk
Method: 6010-200.7 NEW(v286) 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	**.0267193**	**-.039690**	**.0292240**	**.0062472**	**-.041347**	**.6086382**
Stddev	.0016827	.002398	.0002034	.0023939	.001857	.0019920
%RSD	6.297643	6.040772	.6960494	38.32021	4.490762	.3272805
#1	.0277850	-.042426	.0290736	.0041420	-.042673	.6105471
#2	.0275934	-.038689	.0291430	.0057482	-.039225	.6087951
#3	.0247794	-.037955	.0294554	.0088513	-.042142	.6065724

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.004362**	**.0092062**	**-.003454**	**2.841781**	**.3558625**	**.0852505**
Stddev	.000740	.0001220	.000617	.019100	.0028691	.0012578
%RSD	16.95782	1.324968	17.87806	.6721017	.8062242	1.475379
#1	-.003784	.0093429	-.002906	2.847695	.3591691	.0863658
#2	-.005196	.0091672	-.003332	2.857224	.3543870	.0854984
#3	-.004108	.0091084	-.004123	2.820424	.3540316	.0838872

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4423809**	**522.8825**	**1.802068**	**.2350874**	**.2881392**	**-.085823**
Stddev	.0117017	3.1433	.007168	.0161792	.0050610	.000734
%RSD	2.645155	.6011537	.3977910	6.882190	1.756435	.8555460
#1	.4538797	525.4807	1.797858	.2520278	.2932465	-.085338
#2	.4427767	523.7783	1.810345	.2334387	.2880452	-.086668
#3	.4304864	519.3885	1.798002	.2197957	.2831259	-.085462

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**67.85835**	**.0411481**	**.3837471**	**.0324671**	**.1592392**	**-.001019**
Stddev	.48062	.0017777	.0020438	.0046508	.0218532	.000075
%RSD	.7082756	4.320349	.5325792	14.32454	13.72350	7.327535
#1	68.12308	.0390980	.3856547	.0363380	.1829748	-.001040
#2	68.14840	.0420825	.3839966	.0337553	.1399534	-.001080
#3	67.30356	.0422638	.3815901	.0273080	.1547893	-.000936

Reviewed By:
On:
Inst Id :P4
LB :LB137573

Sample Name: Q3346-01DLX5 Acquired: 10/16/2025 18:38:32 Type: Unk
Method: 6010-200.7 NEW(v286) 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	**.0131608**	**.0710983**	**.1713969**	**.1037776**	F **555.8589**	**.0470451**
Stddev	.0011140	.0006520	.0067070	.0023286	13.5700	.0027576
%RSD	8.464527	.9170437	3.913115	2.243884	2.441260	5.861656
#1	.0118888	.0716375	.1713351	.1056567	566.0770	.0444911
#2	.0139625	.0703736	.1781346	.1045037	561.0376	.0466753
#3	.0136312	.0712836	.1647211	.1011725	540.4622	.0499690

Elem	Sr4077
Units	ppm
Avg	**-.499574**
Stddev	.003001
%RSD	.6007148
#1	-.502136
#2	-.500314
#3	-.496273

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5529.103**	**88577.95**	**7010.696**	**4277.115**	**6459.336**
Stddev	10.567	134.20	31.624	13.695	15.311
%RSD	.1911162	.1515088	.4510765	.3201924	.2370418
#1	5517.225	88478.58	7044.753	4262.551	6445.554
#2	5532.624	88524.65	6982.260	4279.061	6456.636
#3	5537.460	88730.62	7005.075	4289.732	6475.817

Reviewed By:
On:
Inst Id :P4
LB :LB137573

Sample Name: CCV07 Acquired: 10/16/2025 18:42:39 Type: Unk
Method: 6010-200.7 NEW(v286) 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	**4.897731**	**5.169608**	**4.760886**	**4.946115**	**4.949502**	**9.545334**	**9.658728**
Stddev	.021025	.129027	.017351	.022884	.003987	.006291	.036332
%RSD	.4292719	2.495875	.3644407	.4626588	.0805524	.0659112	.3761521
#1	4.897634	5.183757	4.764578	4.943135	4.951709	9.538075	9.654755
#2	4.918804	5.290978	4.776094	4.970342	4.951898	9.548707	9.696883
#3	4.876755	5.034090	4.741987	4.924867	4.944900	9.549219	9.624546

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2453255**	**2.352877**	**23.95047**	**.9561621**	**2.369500**	**1.214041**	**4.845539**
Stddev	.0025887	.011685	.10051	.0027451	.011225	.004947	.033860
%RSD	1.055215	.4966416	.4196634	.2870904	.4737195	.4074569	.6987817
#1	.2434234	2.357388	23.85427	.9578932	2.372726	1.216695	4.880195
#2	.2482735	2.361634	24.05480	.9529970	2.378759	1.217093	4.812536
#3	.2442797	2.339608	23.94234	.9575960	2.357016	1.208333	4.843885

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.439061**	**23.86793**	**2.367519**	**1.220173**	**23.23972**	**2.409773**	**2.445522**
Stddev	.012473	.15949	.010386	.003595	.17948	.010621	.005444
%RSD	.5113946	.6682155	.4386995	.2945964	.7723116	.4407527	.2225968
#1	2.430467	23.72346	2.372174	1.220531	23.38002	2.397784	2.451041
#2	2.453368	24.03907	2.374764	1.216413	23.03746	2.418005	2.445368
#3	2.433349	23.84124	2.355620	1.223576	23.30167	2.413530	2.440156

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**23.40904**	**4.975459**	**4.861236**	**4.814400**	**4.805849**	**4.686329**	**5.040413**
Stddev	.20151	.056315	.018776	.027074	.013452	.031236	.031113
%RSD	.8608148	1.131851	.3862384	.5623507	.2799055	.6665431	.6172672
#1	23.51231	4.924131	4.859283	4.818931	4.795953	4.701047	5.049518
#2	23.17683	5.035698	4.880913	4.838923	4.821166	4.650453	5.065958
#3	23.53798	4.966547	4.843513	4.785347	4.800430	4.707488	5.005764

Reviewed By:
On:
Inst Id :P4
LB :LB137573

Sample Name: CCV07 Acquired: 10/16/2025 18:42:39 Type: Unk
Method: 6010-200.7 NEW(v286) 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	**4.911385**	**4.687340**	**4.874635**
Stddev	.042742	.017491	.080841
%RSD	.8702613	.3731471	1.658411
#1	4.909605	4.679066	4.913065
#2	4.954990	4.707433	4.929092
#3	4.869562	4.675521	4.781747

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5450.637**	**88177.39**	**6700.925**	**4332.440**	**6315.451**
Stddev	28.306	330.47	52.139	31.472	37.400
%RSD	.5193073	.3747783	.7780873	.7264241	.5922054
#1	5453.338	87875.65	6732.572	4296.472	6311.783
#2	5421.078	88530.56	6640.747	4345.926	6280.019
#3	5477.496	88125.98	6729.455	4354.921	6354.550

Reviewed By:
On:
Inst Id :P4
LB :LB137573

Sample Name: CCB07 Acquired: 10/16/2025 18:46:42 Type: Unk
Method: 6010-200.7 NEW(v286) 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	**-.000913**	**.0038722**	**-.000620**	**.0000263**	**-.002554**	**.0024756**
Stddev	.000923	.0003990	.000969	.0020079	.000641	.0092999
%RSD	101.0361	10.30490	156.4017	7649.317	25.11153	375.6620
#1	-.000019	.0039058	.000276	-.002115	-.003286	.0078589
#2	-.001863	.0034575	-.000486	.001866	-.002093	.0078310
#3	-.000858	.0042534	-.001649	.000328	-.002282	-.008263

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.006576**	**-.000021**	**.0000008**	**.0153074**	**.0002048**	**-.000107**
Stddev	.001421	.000040	.0000946	.0059677	.0000829	.000077
%RSD	21.61057	192.0229	12564.03	38.98594	40.50527	71.95017
#1	-.006158	.000022	.0000199	.0199135	.0001340	-.000057
#2	-.005410	-.000027	-.000102	.0085657	.0001843	-.000068
#3	-.008159	-.000058	.000084	.0174430	.0002961	-.000195

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000823**	**-.004123**	**.0000661**	**-.023790**	**.0002303**	**.0001354**
Stddev	.0003207	.004137	.0009050	.015870	.0003172	.0000175
%RSD	389.7240	100.3456	1368.627	66.71176	137.7186	12.92258
#1	-.000039	-.001547	.0004943	-.030843	.0005955	.0001270
#2	.000446	-.001927	-.000973	-.005615	.0000231	.0001237
#3	-.000160	-.008895	.000678	-.034911	.0000724	.0001555

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.007774**	**-.002834**	**.0002724**	**.0192076**	**.0043165**	**-.000093**
Stddev	.007766	.002197	.0000534	.0188054	.0008521	.000059
%RSD	99.90086	77.52216	19.60318	97.90627	19.74036	63.62442
#1	-.012676	-.000344	.0003185	.0134814	.0038999	-.000069
#2	-.011826	-.003659	.0002848	.0039308	.0052968	-.000160
#3	.001180	-.004500	.0002139	.0402104	.0037530	-.000050

Reviewed By:
On:
Inst Id :P4
LB :LB137573

Sample Name: CCB07 Acquired: 10/16/2025 18:46:42 Type: Unk
Method: 6010-200.7 NEW(v286) 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	.0101110	.0008640	.0048364	.0007343	F .0259785	-.004691
Stddev	.0005235	.0010287	.0136258	.0008555	.0023408	.002345
%RSD	5.177482	119.0679	281.7329	116.5056	9.010495	50.00036
#1	.0095074	.0010474	.0055089	.0006023	.0259452	-.003974
#2	.0104415	.0017887	.0181135	-.000048	.0283358	-.002787
#3	.0103841	-.000244	-.009113	.001648	.0236546	-.007310

Elem	Sr4077
Units	ppm
Avg	.0000287
Stddev	.0000839
%RSD	292.6254
#1	-.000067
#2	.000064
#3	.000089

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5641.846	91700.23	6859.958	4424.638	7298.308
Stddev	3.498	180.69	5.979	9.221	13.852
%RSD	.0620026	.1970493	.0871588	.2083992	.1898008
#1	5645.107	91516.14	6862.109	4416.673	7314.029
#2	5642.281	91707.22	6853.201	4434.739	7287.892
#3	5638.151	91877.32	6864.563	4422.501	7293.003

Reviewed By:
On:
Inst Id :P4
LB :LB137573

Sample Name: Q3354-01 Acquired: 10/16/2025 18:51:00 Type: Unk
Method: 6010-200.7 NEW(v286) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0259205	-.001306	.4645712	.0029877	-.004021	53.36358	.5232598
Stddev	.0038869	.002738	.0009123	.0030896	.002098	.19721	.0015820
%RSD	14.99538	209.5798	.1963833	103.4097	52.16621	.3695658	.3023315
#1	.0247030	-.000127	.4635183	.0017181	-.001938	53.16539	.5227950
#2	.0227881	-.004436	.4651287	.0007352	-.006133	53.55980	.5219624
#3	.0302704	.000644	.4650665	.0065099	-.003993	53.36555	.5250222

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0039746	.0027388	37.36988	.1313779	.0433410	.3741272	86.78964
Stddev	.0000684	.0000904	.14361	.0004278	.0001624	.0009929	.48658
%RSD	1.720366	3.302126	.3842891	.3255840	.3747874	.2653912	.5606394
#1	.0040223	.0028158	37.25373	.1311814	.0432416	.3751572	87.12548
#2	.0040053	.0026392	37.53045	.1318686	.0435284	.3731761	87.01181
#3	.0038963	.0027613	37.32546	.1310838	.0432529	.3740482	86.23164

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.611561	28.68113	.1214738	-.013510	125.9153	.1512386	.5577924
Stddev	.002279	.20862	.0001139	.000055	.8396	.0016909	.0041506
%RSD	.1413876	.7273653	.0937773	.4067173	.6668263	1.118047	.7441154
#1	1.610610	28.45132	.1215965	-.013562	126.6403	.1492861	.5597904
#2	1.609912	28.85859	.1214534	-.013517	126.1103	.1522070	.5605662
#3	1.614161	28.73346	.1213714	-.013452	124.9953	.1522226	.5530207

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.800863	.1560774	.0058340	.0294032	1.479887	7.854211	3.195903
Stddev	.056970	.0008251	.0001783	.0006211	.005634	.115031	.008905
%RSD	.9820903	.5286588	3.055784	2.112393	.3806827	1.464573	.2786314
#1	5.827519	.1564948	.0057649	.0299908	1.485622	7.929226	3.205010
#2	5.839618	.1551270	.0057006	.0294653	1.479676	7.911634	3.187215
#3	5.735452	.1566104	.0060364	.0287533	1.474361	7.721774	3.195483

Reviewed By:
On:
Inst Id :P4
LB :LB137573

Sample Name: Q3354-01 Acquired: 10/16/2025 18:51:00 Type: Unk
Method: 6010-200.7 NEW(v286) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	**1.458349**	**.0554024**	**.2102814**
Stddev	.000266	.0025976	.0004871
%RSD	.0182545	4.688598	.2316528
#1	1.458656	.0527404	.2106194
#2	1.458213	.0579305	.2097230
#3	1.458178	.0555364	.2105018

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5780.350**	**94246.91**	**7613.876**	**4440.300**	**6247.889**
Stddev	2.980	386.49	39.653	6.847	9.630
%RSD	.0515515	.4100795	.5207959	.1542007	.1541323
#1	5783.608	94367.32	7659.275	4434.217	6249.910
#2	5777.763	93814.55	7596.327	4438.967	6237.409
#3	5779.680	94558.85	7586.026	4447.716	6256.349

Reviewed By:
On:
Inst Id :P4
LB :LB137573

Sample Name: Q3352-01 Acquired: 10/16/2025 18:55:03 Type: Unk
Method: 6010-200.7 NEW(v286) 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	**.0356798**	**-.005359**	**.1682047**	**.0027014**	**-.017511**	**141.6105**
Stddev	.0003692	.003189	.0003763	.0015703	.000592	.3943
%RSD	1.034757	59.51153	.2237121	58.12798	3.379397	.2784062
#1	.0353361	-.007033	.1677813	.0014612	-.017064	141.1660
#2	.0356333	-.007363	.1685010	.0044670	-.017288	141.7480
#3	.0360701	-.001681	.1683320	.0021761	-.018182	141.9176

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.6958488**	**.0116359**	**.0087032**	**9.144314**	**.1836250**	**.1246185**
Stddev	.0051062	.0000962	.0000982	.048016	.0009006	.0004025
%RSD	.7338101	.8269640	1.128308	.5250956	.4904447	.3229420
#1	.6899854	.0116079	.0085972	9.089577	.1846605	.1241556
#2	.6982439	.0117430	.0087911	9.164032	.1831901	.1248851
#3	.6993172	.0115567	.0087212	9.179332	.1830243	.1248148

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2923622**	**248.4716**	**4.920314**	**43.78351**	**.2598275**	**-.041823**
Stddev	.0005503	.6734	.032002	.11998	.0003733	.000417
%RSD	.1882180	.2710151	.6504101	.2740197	.1436746	.9969393
#1	.2925318	247.7106	4.886010	43.65609	.2596616	-.042248
#2	.2928077	248.7141	4.949364	43.89430	.2602550	-.041414
#3	.2917471	248.9902	4.925570	43.80014	.2595660	-.041806

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.807194**	**.2581043**	**.5376684**	**18.32709**	**.1473808**	**.0015903**
Stddev	.027632	.0034993	.0011836	.11343	.0083690	.0002129
%RSD	.5747988	1.355769	.2201387	.6188998	5.678453	13.38651
#1	4.777938	.2616073	.5388438	18.21389	.1469856	.0016640
#2	4.832848	.2580967	.5364767	18.32663	.1392165	.0013504
#3	4.810795	.2546087	.5376847	18.44074	.1559404	.0017566

Reviewed By:
On:
Inst Id :P4
LB :LB137573

Sample Name: Q3352-01 Acquired: 10/16/2025 18:55:03 Type: Unk
Method: 6010-200.7 NEW(v286) 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	.0052344	3.108355	F 16.06605	4.418287	.4242120	.2404006
Stddev	.0006511	.008764	.05958	.017411	.0015362	.0016260
%RSD	12.43997	.2819652	.3708315	.3940570	.3621230	.6763544
#1	.0059566	3.100608	16.02593	4.436754	.4241594	.2385379
#2	.0050544	3.106588	16.03770	4.415935	.4257737	.2415357
#3	.0046922	3.117868	16.13450	4.402172	.4227027	.2411282

Elem	Sr4077
Units	ppm
Avg	-.159130
Stddev	.000162
%RSD	.1019316
#1	-.158944
#2	-.159201
#3	-.159245

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6916.915	110693.7	8898.888	5292.399	6273.732
Stddev	8.214	358.5	23.480	25.008	11.054
%RSD	.1187453	.3238752	.2638508	.4725196	.1762015
#1	6909.900	110296.0	8903.804	5271.650	6270.171
#2	6914.894	110793.0	8873.340	5320.166	6264.896
#3	6925.950	110992.1	8919.521	5285.382	6286.127

Reviewed By:
On:
Inst Id :P4
LB :LB137573

Sample Name: PB170132BL Acquired: 10/16/2025 18:59:06 Type: Unk
Method: 6010-200.7 NEW(v286) 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	**-.002158**	**.0009152**	**-.001235**	**-.001225**	**-.000849**	**.0063098**
Stddev	.001307	.0032866	.000825	.001667	.000564	.0098938
%RSD	60.57053	359.1167	66.77854	136.0855	66.46278	156.8020
#1	-.002969	.0043656	-.001241	-.000535	-.000465	-.000134
#2	-.002855	-.002178	-.000407	-.003125	-.000585	.017701
#3	-.000650	.000558	-.002057	-.000014	-.001496	.001362

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.005395**	**.0000370**	**-.000030**	**.0032678**	**.0003897**	**-.000090**
Stddev	.000659	.0000328	.000042	.0010516	.0002780	.000013
%RSD	12.21101	88.78169	140.3625	32.18167	71.32722	14.69625
#1	-.005672	.0000437	.000012	.0033417	.0000870	-.000082
#2	-.005870	.0000660	-.000029	.0042805	.0004487	-.000105
#3	-.004643	.0000013	-.000073	.0021811	.0006334	-.000082

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000339**	**-.002293**	**.0000234**	**-.006207**	**.0001360**	**-.000374**
Stddev	.0000496	.011624	.0000730	.021062	.0001967	.000350
%RSD	146.4444	506.8841	311.6461	339.3283	144.5750	93.64491
#1	.0000009	-.009039	.0001049	.016602	.0001191	-.000754
#2	.0000910	.011129	-.000036	-.024920	.0003406	-.000065
#3	.0000098	-.008970	.000002	-.010303	-.000052	-.000303

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000643**	**.0012906**	**.0001053**	**-.013288**	**-.001331**	**-.000330**
Stddev	.017821	.0036152	.0000538	.038647	.000671	.000128
%RSD	2773.315	280.1243	51.09747	290.8488	50.36815	38.80153
#1	.001108	-.000770	.0000643	-.050430	-.001659	-.000185
#2	-.019274	.005465	.0000853	.026706	-.001775	-.000429
#3	.016238	-.000824	.0001662	-.016139	-.000560	-.000377

Reviewed By:
On:
Inst Id :P4
LB :LB137573

Sample Name: PB170132BL Acquired: 10/16/2025 18:59:06 Type: Unk
Method: 6010-200.7 NEW(v286) 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	.0109261	-.000843	-.003980	.0007335	F .0197883	-.002863
Stddev	.0000430	.000935	.004678	.0013809	.0014733	.003490
%RSD	.3932877	110.9426	117.5406	188.2526	7.445290	121.8921
#1	.0108976	.000126	.001038	.0013283	.0197544	-.003962
#2	.0109755	-.000914	-.008221	-.000845	.0183323	.001044
#3	.0109052	-.001741	-.004757	.001717	.0212783	-.005671

Elem	Sr4077
Units	ppm
Avg	-.000022
Stddev	.000067
%RSD	307.8596
#1	-.000025
#2	.000046
#3	-.000087

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5607.431	90627.70	6895.778	4352.058	7264.301
Stddev	11.205	352.07	35.228	10.981	17.130
%RSD	.1998278	.3884795	.5108639	.2523082	.2358085
#1	5604.549	90995.69	6932.967	4363.996	7247.453
#2	5597.949	90593.33	6862.910	4342.389	7263.750
#3	5619.796	90294.07	6891.455	4349.791	7281.699

Reviewed By:
On:
Inst Id :P4
LB :LB137573

Sample Name: PB170132BS Acquired: 10/16/2025 19:03:25 Type: Unk
Method: 6010-200.7 NEW(v286) 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	.7163601	1.928813	.8478716	1.832238	.7375899	1.756110
Stddev	.0027401	.057957	.0022678	.005320	.0013014	.017877
%RSD	.3825004	3.004779	.2674736	.2903401	.1764429	1.018007
#1	.7192809	1.951939	.8496615	1.836491	.7382853	1.738263
#2	.7159533	1.862864	.8453213	1.826273	.7360885	1.756050
#3	.7138462	1.971636	.8486320	1.833950	.7383958	1.774018

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1673037	.1912099	.1670608	.9071383	.3617803	.1726020
Stddev	.0011506	.0007286	.0001966	.0178566	.0020480	.0004509
%RSD	.6877272	.3810672	.1176835	1.968454	.5660816	.2612363
#1	.1668797	.1908191	.1670372	.9018852	.3597565	.1723945
#2	.1664253	.1907600	.1668771	.8924974	.3638516	.1722922
#3	.1686061	.1920505	.1672682	.9270322	.3617329	.1731193

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2820123	2.654339	.1828696	1.761150	.4338656	.0693158
Stddev	.0004325	.010007	.0014808	.027425	.0006979	.0003153
%RSD	.1533504	.3769943	.8097850	1.557228	.1608589	.4549083
#1	.2818261	2.663590	.1830884	1.792466	.4335131	.0689572
#2	.2817042	2.655710	.1812916	1.749570	.4334142	.0695496
#3	.2825067	2.643718	.1842289	1.741414	.4346694	.0694408

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.432535	.2648502	.1913344	8.275985	.2809894	.3649001
Stddev	.001926	.0032083	.0006185	.035337	.0002683	.0008336
%RSD	.0791782	1.211378	.3232548	.4269780	.0954789	.2284512
#1	2.433131	.2684938	.1919926	8.316667	.2808321	.3658074
#2	2.430381	.2624484	.1912454	8.258367	.2808369	.3647248
#3	2.434093	.2636082	.1907653	8.252921	.2812992	.3641680

Reviewed By:
On:
Inst Id :P4
LB :LB137573

Sample Name: PB170132BS Acquired: 10/16/2025 19:03:25 Type: Unk
Method: 6010-200.7 NEW(v286) 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	.6098594	.1710783	F .7274139	5.186732	F .0141782	.1727972
Stddev	.0032153	.0016708	.0038579	.031157	.0007858	.0005981
%RSD	.5272258	.9766387	.5303612	.6007142	5.542579	.3461587
#1	.6104302	.1724766	.7268892	5.155725	.0139944	.1734542
#2	.6063969	.1715304	.7315074	5.186433	.0135005	.1722841
#3	.6127512	.1692280	.7238452	5.218038	.0150396	.1726534

Elem	Sr4077
Units	ppm
Avg	.1742739
Stddev	.0009653
%RSD	.5538945
#1	.1747358
#2	.1731645
#3	.1749215

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5735.205	92827.59	6857.218	4518.422	7154.684
Stddev	13.200	98.48	21.145	28.182	9.699
%RSD	.2301489	.1060913	.3083597	.6237062	.1355596
#1	5722.447	92938.37	6870.584	4549.063	7143.855
#2	5734.362	92749.95	6868.231	4512.592	7162.572
#3	5748.806	92794.46	6832.840	4493.611	7157.626

Reviewed By:
On:
Inst Id :P4
LB :LB137573

Sample Name: Q3349-01 Acquired: 10/16/2025 19:07:26 Type: Unk
Method: 6010-200.7 NEW(v286) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0003858**	**-.004268**	**-.001231**	**-.008429**	**-.006458**	**.0118969**	**-.029536**
Stddev	.0006183	.000757	.000434	.000176	.000301	.0032260	.000530
%RSD	160.2715	17.74773	35.23235	2.088215	4.657587	27.11636	1.794874
#1	-.000091	-.003480	-.001081	-.008612	-.006460	.0151901	-.029680
#2	.001084	-.004990	-.000893	-.008261	-.006156	.0087426	-.029980
#3	.000164	-.004334	-.001720	-.008413	-.006758	.0117580	-.028949

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0001764**	**.0001166**	**.0001044**	**-.000157**	**.0000520**	**-.000391**	**-.005485**
Stddev	.0000148	.0000162	.0069052	.000108	.0000535	.000063	.001438
%RSD	8.401486	13.87271	6616.002	69.11630	103.0168	16.12759	26.22534
#1	.0001752	.0000980	-.002709	-.000039	.0001034	-.000344	-.004890
#2	.0001622	.0001240	-.004950	-.000180	.0000559	-.000366	-.007126
#3	.0001918	.0001277	.007972	-.000251	-.000003	-.000462	-.004440

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0002343**	**-.000200**	**.0009624**	**-.000450**	**-.143504**	**-.000520**	**-.000645**
Stddev	.0001657	.010345	.0000731	.000310	.002389	.001341	.000167
%RSD	70.70831	5159.988	7.597555	68.83743	1.664623	257.7963	25.96538
#1	.0000669	.003577	.0010318	-.000743	-.146065	.000966	-.000705
#2	.0003982	-.011903	.0008861	-.000126	-.143111	-.001640	-.000773
#3	.0002379	.007724	.0009692	-.000482	-.141336	-.000885	-.000455

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.020336**	**-.005508**	**-.000483**	**-.020330**	**-.001435**	**-.019601**	**-.003687**
Stddev	.008824	.000266	.000049	.000011	.000134	.005783	.000328
%RSD	43.39066	4.838321	10.09772	.0540376	9.352786	29.50241	8.901706
#1	-.025818	-.005200	-.000427	-.020327	-.001585	-.019673	-.003339
#2	-.010157	-.005667	-.000507	-.020342	-.001396	-.013783	-.003731
#3	-.025033	-.005656	-.000515	-.020321	-.001325	-.025347	-.003992

Reviewed By:
On:
Inst Id :P4
LB :LB137573

Sample Name: Q3349-01 Acquired: 10/16/2025 19:07:26 Type: Unk
Method: 6010-200.7 NEW(v286) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	-.033200	-.012029	-.000074
Stddev	.001088	.000538	.000049
%RSD	3.277014	4.472863	66.58536
#1	-.034001	-.011813	-.000131
#2	-.033637	-.012642	-.000053
#3	-.031961	-.011633	-.000039

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	18495.76	287801.1	17414.02	15357.82	24633.21
Stddev	560.04	25406.5	416.93	837.84	723.62
%RSD	3.027943	8.827799	2.394242	5.455458	2.937561
#1	18020.08	277143.1	17364.43	15734.96	24031.45
#2	18354.20	316800.6	17853.54	15940.81	24432.06
#3	19113.00	269459.5	17024.11	14397.70	25436.12

Reviewed By:
On:
Inst Id :P4
LB :LB137573

Sample Name: Q3352-04 Acquired: 10/16/2025 19:11:53 Type: Unk
Method: 6010-200.7 NEW(v286) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.004866	-.004078	.0012893	.0075341	.0032117	.1006221	.1955121
Stddev	.001019	.004498	.0005638	.0010036	.0005870	.0060506	.0041737
%RSD	20.95209	110.3075	43.72747	13.32065	18.27750	6.013172	2.134729
#1	-.004734	-.009270	.0017562	.0076168	.0030368	.1075845	.1974941
#2	-.005944	-.001593	.0014486	.0084937	.0027320	.0966382	.1983254
#3	-.003918	-.001371	.0006630	.0064916	.0038663	.0976435	.1907167

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000069	.0000157	3.418233	.0034155	.0016309	.0079916	1.831852
Stddev	.0000429	.0000595	.008290	.0003028	.0000759	.0002777	.005638
%RSD	623.4272	379.5624	.2425181	8.865615	4.654913	3.474785	.3077743
#1	-.000010	.0000440	3.427589	.0032053	.0016825	.0077028	1.836341
#2	.000056	-.000053	3.411802	.0037626	.0015438	.0082567	1.833691
#3	-.000025	.000056	3.415307	.0032787	.0016665	.0080155	1.825525

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.055654	.6164377	.0023750	-.000734	294.4211	-.001778	.0427215
Stddev	.016422	.0221408	.0000842	.000567	2.4236	.002814	.0005527
%RSD	.7988492	3.591741	3.545005	77.17214	.8231749	158.2660	1.293849
#1	2.074345	.6310371	.0024703	-.000094	292.3921	-.000848	.0430998
#2	2.049076	.5909622	.0023107	-.001173	297.1048	-.004939	.0420871
#3	2.043541	.6273138	.0023440	-.000936	293.7663	.000453	.0429775

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2232902	.0128462	.0006293	-.017237	.0008169	.3143879	.0145061
Stddev	.0516095	.0004473	.0001202	.000304	.0011172	.0157729	.0017090
%RSD	23.11322	3.482259	19.09758	1.763874	136.7572	5.017020	11.78091
#1	.2013668	.0123363	.0007680	-.016990	.0007463	.2961756	.0135131
#2	.2822422	.0131725	.0005572	-.017146	-.000263	.3236307	.0135259
#3	.1862616	.0130299	.0005626	-.017577	.001968	.3233575	.0164795

Reviewed By:
On:
Inst Id :P4
LB :LB137573

Sample Name: Q3352-04 Acquired: 10/16/2025 19:11:53 Type: Unk
Method: 6010-200.7 NEW(v286) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.2196641	-.011908	.0199571
Stddev	.0058943	.002036	.0002817
%RSD	2.683302	17.09504	1.411485
#1	.2264134	-.011530	.0202238
#2	.2170491	-.010088	.0199849
#3	.2155298	-.014107	.0196625

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5063.472	82283.98	6678.744	3957.398	5941.581
Stddev	20.527	204.22	29.415	25.613	33.780
%RSD	.4053885	.2481890	.4404267	.6472112	.5685415
#1	5040.697	82138.91	6648.090	3952.425	5907.034
#2	5069.173	82195.51	6706.739	3934.637	5943.170
#3	5080.545	82517.51	6681.403	3985.133	5974.539

Reviewed By:
On:
Inst Id :P4
LB :LB137573

Sample Name: Q3354-02 Acquired: 10/16/2025 19:16:17 Type: Unk
Method: 6010-200.7 NEW(v286) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0001462**	**-.001410**	**.0789848**	**.0056650**	**.0054095**	**2.024869**	**.3813068**
Stddev	.0023278	.000581	.0006674	.0013551	.0016714	.003875	.0004050
%RSD	1592.657	41.16984	.8450178	23.92057	30.89849	.1913811	.1062187
#1	-.000516	-.001672	.0786873	.0072100	.0072367	2.023329	.3816288
#2	.002733	-.001814	.0797493	.0046779	.0039576	2.022000	.3808521
#3	-.001778	-.000745	.0785179	.0051072	.0050341	2.029277	.3814396

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000437**	**.0002367**	**15.16799**	**.0041430**	**.0019359**	**.0613792**	**2.816525**
Stddev	.0000266	.0000249	.02295	.0004244	.0000884	.0002436	.019537
%RSD	60.74364	10.51192	.1512740	10.24386	4.566743	.3969324	.6936397
#1	.0000132	.0002084	15.18836	.0039330	.0018575	.0612628	2.812510
#2	.0000562	.0002468	15.14313	.0038645	.0020317	.0612156	2.799308
#3	.0000617	.0002550	15.17248	.0046314	.0019185	.0616592	2.837757

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4024021**	**3.305736**	**.0037584**	**-.001095**	**449.2539**	**.0011499**	**.2846790**
Stddev	.0005317	.039672	.0002395	.000270	4.9727	.0003416	.0010555
%RSD	.1321410	1.200083	6.373265	24.65619	1.106884	29.71209	.3707821
#1	.4029755	3.303669	.0037350	-.001345	454.8574	.0008081	.2834700
#2	.4023056	3.346401	.0035314	-.001132	445.3666	.0011500	.2851501
#3	.4019253	3.267139	.0040088	-.000809	447.5378	.0014914	.2854171

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.587733**	**.0889281**	**.0008117**	**-.016316**	**.0569022**	**4.842008**	**.9629943**
Stddev	.036186	.0002982	.0002009	.000535	.0021236	.029512	.0055920
%RSD	2.279101	.3353064	24.74840	3.276790	3.732074	.6094976	.5806842
#1	1.625872	.0889370	.0007941	-.016853	.0575861	4.827952	.9639115
#2	1.583446	.0892218	.0006202	-.015784	.0545209	4.822152	.9570005
#3	1.553882	.0886256	.0010208	-.016311	.0585996	4.875921	.9680710

Reviewed By:
On:
Inst Id :P4
LB :LB137573

Sample Name: Q3354-02 Acquired: 10/16/2025 19:16:17 Type: Unk
Method: 6010-200.7 NEW(v286) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	**2.034020**	**-.009920**	**.1442718**
Stddev	.025086	.001131	.0002050
%RSD	1.233330	11.40380	.1421011
#1	2.033900	-.008651	.1444915
#2	2.008994	-.010287	.1440856
#3	2.059166	-.010823	.1442383

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4982.121**	**79633.88**	**6715.684**	**3843.661**	**5696.622**
Stddev	12.139	631.91	15.006	22.642	17.842
%RSD	.2436443	.7935132	.2234437	.5890687	.3131979
#1	4995.993	80279.67	6720.994	3867.135	5716.043
#2	4973.448	79605.13	6698.745	3841.892	5680.957
#3	4976.922	79016.84	6727.312	3821.955	5692.865

Reviewed By:
On:
Inst Id :P4
LB :LB137573

Sample Name: Q3357-02 Acquired: 10/16/2025 19:20:38 Type: Unk
Method: 6010-200.7 NEW(v286) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0031375**	**-.012452**	**.0071499**	**.0066682**	**-.012242**	**.2771556**	**.1364442**
Stddev	.0022927	.003196	.0013022	.0007427	.001306	.0089019	.0016595
%RSD	73.07516	25.66688	18.21280	11.13759	10.67007	3.211863	1.216280
#1	.0042412	-.011204	.0066337	.0060115	-.011935	.2812421	.1378562
#2	.0046695	-.016084	.0086311	.0065189	-.013675	.2669442	.1368602
#3	.0005016	-.010068	.0061849	.0074741	-.011118	.2832804	.1346162

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0023940**	**.0001656**	**13.47069**	**.0208356**	**.0080693**	**.0261364**	**156.6156**
Stddev	.0000778	.0001263	.03604	.0002214	.0001320	.0005825	.5398
%RSD	3.252057	76.25402	.2675128	1.062377	1.635172	2.228688	.3446452
#1	.0023384	.0002217	13.51157	.0205917	.0081693	.0254722	156.3028
#2	.0023606	.0002542	13.45699	.0210236	.0081189	.0265602	156.3052
#3	.0024830	.0000210	13.44353	.0208916	.0079198	.0263770	157.2389

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**3.043613**	**1.257026**	**.0052782**	**-.023175**	**287.0458**	**.0010368**	**.4779576**
Stddev	.009596	.012687	.0003560	.000787	3.1485	.0007381	.0018099
%RSD	.3152983	1.009308	6.744553	3.397152	1.096864	71.18806	.3786742
#1	3.046050	1.271659	.0053831	-.024062	285.4162	.0012264	.4793370
#2	3.033033	1.249095	.0055699	-.022906	285.0462	.0002225	.4786276
#3	3.051756	1.250325	.0048815	-.022558	290.6751	.0016617	.4759082

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5671797**	**.2056790**	**.0281810**	**-.019054**	**-.000548**	**1.208056**	**.0107841**
Stddev	.0298606	.0029076	.0001356	.000533	.000360	.014258	.0004232
%RSD	5.264745	1.413649	.4810784	2.795995	65.75102	1.180263	3.924637
#1	.5689593	.2027348	.0280886	-.018742	-.000140	1.203861	.0103063
#2	.5364691	.2057535	.0283366	-.018751	-.000821	1.196366	.0111119
#3	.5961106	.2085486	.0281178	-.019670	-.000683	1.223942	.0109342

Reviewed By:
On:
Inst Id :P4
LB :LB137573

Sample Name: Q3357-02 Acquired: 10/16/2025 19:20:38 Type: Unk
Method: 6010-200.7 NEW(v286) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	**1.641700**	**.1345686**	**.1091744**
Stddev	.009275	.0023107	.0005843
%RSD	.5649523	1.717151	.5351525
#1	1.645749	.1319004	.1098448
#2	1.648261	.1359176	.1087744
#3	1.631088	.1358878	.1089039

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5458.786**	**88997.02**	**7328.921**	**4276.303**	**6259.576**
Stddev	7.050	311.29	14.489	20.989	14.777
%RSD	.1291551	.3497775	.1976935	.4908171	.2360658
#1	5463.615	89354.02	7334.455	4293.332	6272.955
#2	5462.046	88782.27	7312.480	4252.854	6262.057
#3	5450.695	88854.76	7339.826	4282.724	6243.715

Reviewed By:
On:
Inst Id :P4
LB :LB137573

Sample Name: Q3357-03 Acquired: 10/16/2025 19:24:56 Type: Unk
Method: 6010-200.7 NEW(v286) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0012415**	**-.011266**	**.0075942**	**.0039597**	**-.012933**	**.0482590**	**.1211133**
Stddev	.0018208	.001875	.0010492	.0017100	.001687	.0055196	.0012915
%RSD	146.6672	16.64303	13.81570	43.18589	13.04054	11.43746	1.066367
#1	-.000608	-.010688	.0079069	.0026285	-.011660	.0452802	.1211679
#2	.001300	-.013362	.0084514	.0033622	-.012294	.0448687	.1197953
#3	.003032	-.009748	.0064242	.0058883	-.014846	.0546280	.1223766

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0022441**	**-.000359**	**16.91004**	**-.006745**	**.0065762**	**.0261937**	**166.3505**
Stddev	.0000979	.000177	.03215	.000219	.0001094	.0004098	.9271
%RSD	4.363125	49.34844	.1901254	3.250885	1.663776	1.564411	.5572953
#1	.0023108	-.000430	16.93063	-.006590	.0065398	.0266662	166.3793
#2	.0021317	-.000490	16.87300	-.006650	.0066992	.0259343	167.2628
#3	.0022899	-.000158	16.92650	-.006996	.0064897	.0259808	165.4094

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**3.573729**	**1.599742**	**.0049800**	**-.023604**	**292.7501**	**.0015747**	**.3893095**
Stddev	.017404	.006688	.0005188	.000532	1.3066	.0015553	.0017015
%RSD	.4870094	.4180749	10.41727	2.255355	.4463154	98.76530	.4370459
#1	3.592696	1.596427	.0049677	-.024195	294.1428	-.000000	.3908317
#2	3.558492	1.607440	.0044675	-.023160	292.5562	.003110	.3874727
#3	3.569998	1.595359	.0055049	-.023458	291.5513	.001615	.3896242

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.7047119**	**.2282058**	**.0405206**	**-.006241**	**-.000147**	**1.024373**	**.0111986**
Stddev	.0208586	.0056059	.0002147	.000128	.001502	.014220	.0016418
%RSD	2.959873	2.456495	.5299463	2.043106	1020.447	1.388189	14.66081
#1	.7277452	.2273401	.0405822	-.006317	.001180	1.022801	.0118571
#2	.6870976	.2341942	.0406979	-.006093	-.001778	1.039314	.0093297
#3	.6992930	.2230832	.0402818	-.006311	.000156	1.011004	.0124088

Reviewed By:
On:
Inst Id :P4
LB :LB137573

Sample Name: Q3357-03 Acquired: 10/16/2025 19:24:56 Type: Unk
Method: 6010-200.7 NEW(v286) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	**2.032413**	**.1499747**	**.1513192**
Stddev	.010239	.0020994	.0015209
%RSD	.5037866	1.399856	1.005109
#1	2.027306	.1508889	.1524160
#2	2.025732	.1475732	.1495829
#3	2.044201	.1514621	.1519586

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5510.197**	**89481.44**	**7320.783**	**4343.802**	**6401.922**
Stddev	4.736	153.15	76.457	8.778	12.525
%RSD	.0859516	.1711493	1.044380	.2020900	.1956508
#1	5513.782	89307.57	7279.664	4333.699	6416.016
#2	5504.828	89540.40	7409.000	4349.559	6397.688
#3	5511.981	89596.34	7273.685	4348.149	6392.063

Reviewed By:
On:
Inst Id :P4
LB :LB137573

Sample Name: Q3357-04 Acquired: 10/16/2025 19:29:14 Type: Unk
Method: 6010-200.7 NEW(v286) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000753**	**-.009107**	**.0038019**	**.0053523**	**-.005249**	**.6711937**	**.1750373**
Stddev	.001641	.001644	.0017055	.0024622	.000922	.0141750	.0014311
%RSD	217.7782	18.04893	44.85916	46.00376	17.56428	2.111906	.8175995
#1	.000722	-.007210	.0019589	.0074791	-.004190	.6548899	.1766750
#2	-.000461	-.010117	.0053245	.0059228	-.005684	.6805982	.1744098
#3	-.002520	-.009994	.0041224	.0026548	-.005872	.6780931	.1740272

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0024654**	**-.000070**	**7.172829**	**.0752438**	**.0211612**	**.0129098**	**85.00812**
Stddev	.0000630	.000067	.001774	.0005142	.0001795	.0003857	.09866
%RSD	2.556803	96.14259	.0247328	.6834075	.8480076	2.987501	.1160641
#1	.0025159	-.000134	7.172824	.0754233	.0210299	.0126133	84.95357
#2	.0023948	.000000	7.174605	.0746639	.0210879	.0133458	85.12201
#3	.0024855	-.000077	7.171057	.0756443	.0213657	.0127702	84.94877

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.878820**	**.5458997**	**.0188579**	**-.012194**	**272.5109**	**.0022187**	**1.455414**
Stddev	.002361	.0193507	.0001272	.000092	1.4700	.0042513	.002297
%RSD	.1256404	3.544726	.6746861	.7554304	.5394333	191.6131	.1577928
#1	1.876829	.5579082	.0189878	-.012122	273.5312	-.002514	1.452947
#2	1.881428	.5562141	.0188525	-.012163	270.8260	.005715	1.455805
#3	1.878202	.5235770	.0187335	-.012298	273.1756	.003455	1.457490

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4977764**	**.1198111**	**.0554299**	**-.017957**	**.0005343**	**1.138220**	**.0138369**
Stddev	.0496483	.0010579	.0005515	.000552	.0010733	.010868	.0008264
%RSD	9.974023	.8829722	.9949852	3.076143	200.8896	.9548383	5.972812
#1	.5512081	.1204512	.0553452	-.017374	.0011417	1.146929	.0143469
#2	.4890535	.1203920	.0549256	-.018473	.0011661	1.141691	.0128833
#3	.4530675	.1185900	.0560188	-.018025	-.000705	1.126041	.0142804

Reviewed By:
On:
Inst Id :P4
LB :LB137573

Sample Name: Q3357-04 Acquired: 10/16/2025 19:29:14 Type: Unk
Method: 6010-200.7 NEW(v286) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.7726830	.0854089	.0542874
Stddev	.0049055	.0015963	.0005201
%RSD	.6348668	1.868992	.9580903
#1	.7687180	.0838446	.0545115
#2	.7711622	.0870353	.0546579
#3	.7781688	.0853467	.0536928

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5613.305	90559.53	7406.571	4382.158	6440.106
Stddev	17.061	195.94	20.081	17.839	13.773
%RSD	.3039338	.2163647	.2711274	.4070844	.2138585
#1	5597.130	90783.94	7429.370	4402.476	6426.185
#2	5611.653	90422.37	7398.834	4374.931	6440.409
#3	5631.131	90472.28	7391.510	4369.065	6453.726

Reviewed By:
On:
Inst Id :P4
LB :LB137573

Sample Name: CCV08 Acquired: 10/16/2025 19:33:33 Type: Unk
Method: 6010-200.7 NEW(v286) 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	**4.971916**	**4.991006**	**4.795557**	**5.123528**	**5.077919**	**9.417083**	**9.354760**
Stddev	.030075	.035419	.029003	.042525	.032888	.056714	.048345
%RSD	.6048891	.7096596	.6047898	.8299961	.6476742	.6022441	.5167934
#1	4.937724	5.022092	4.763435	5.074443	5.040485	9.352363	9.368379
#2	4.983752	4.952446	4.803410	5.149241	5.102176	9.458098	9.301067
#3	4.994272	4.998478	4.819824	5.146901	5.091094	9.440789	9.394835

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2469550**	**2.366258**	**23.63877**	**.9705769**	**2.383588**	**1.221722**	**4.789274**
Stddev	.0009059	.015868	.14782	.0007883	.015841	.008063	.018789
%RSD	.3668152	.6705775	.6253438	.0812239	.6645893	.6600038	.3923174
#1	.2461047	2.349941	23.46811	.9711880	2.366122	1.212974	4.809434
#2	.2468525	2.367200	23.72121	.9696871	2.387617	1.223334	4.772250
#3	.2479078	2.381634	23.72699	.9708556	2.397026	1.228857	4.786138

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.373831**	**23.52135**	**2.382344**	**1.232689**	**22.86145**	**2.388466**	**2.474054**
Stddev	.002899	.16075	.014481	.001179	.23781	.013884	.005838
%RSD	.1221362	.6834277	.6078337	.0956631	1.040215	.5812794	.2359868
#1	2.370722	23.33651	2.366755	1.233833	23.13492	2.373484	2.476685
#2	2.374311	23.62850	2.384903	1.231478	22.70316	2.400898	2.467363
#3	2.376461	23.59903	2.395375	1.232757	22.74628	2.391015	2.478113

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**23.84122**	**4.967241**	**4.900235**	**4.801704**	**4.728148**	**4.652537**	**5.005624**
Stddev	.08680	.027231	.034021	.027983	.013265	.027646	.049474
%RSD	.3640696	.5482177	.6942800	.5827722	.2805469	.5942037	.9883682
#1	23.92517	4.936578	4.861787	4.769604	4.716794	4.681628	4.952209
#2	23.75183	4.988603	4.912475	4.814550	4.724920	4.626609	5.014785
#3	23.84667	4.976542	4.926443	4.820957	4.742728	4.649374	5.049876

Reviewed By:
On:
Inst Id :P4
LB :LB137573

Sample Name: CCV08 Acquired: 10/16/2025 19:33:33 Type: Unk
Method: 6010-200.7 NEW(v286) 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	**4.975123**	**4.576163**	**4.725072**
Stddev	.027575	.008809	.020449
%RSD	.5542515	.1925012	.4327767
#1	4.943426	4.569733	4.743437
#2	4.988363	4.572552	4.703036
#3	4.993582	4.586204	4.728741

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5490.134**	**89502.93**	**6889.080**	**4263.551**	**6384.057**
Stddev	31.191	146.05	49.869	34.495	33.664
%RSD	.5681349	.1631787	.7238831	.8090709	.5273131
#1	5523.993	89661.97	6946.660	4275.522	6418.120
#2	5483.838	89472.00	6859.717	4290.466	6383.243
#3	5462.570	89374.83	6860.863	4224.665	6350.807

Reviewed By:
On:
Inst Id :P4
LB :LB137573

Sample Name: CCB08 Acquired: 10/16/2025 19:37:38 Type: Unk
Method: 6010-200.7 NEW(v286) 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	**-.001655**	**.0009161**	**-.001163**	**-.000882**	**-.002174**	**.0066558**
Stddev	.001444	.0017944	.000787	.001206	.001476	.0061103
%RSD	87.25225	195.8707	67.65145	136.6895	67.87961	91.80432
#1	-.003310	-.000769	-.001108	-.002273	-.000799	.0027068
#2	-.001012	.000715	-.001976	-.000119	-.001991	.0035667
#3	-.000644	.002803	-.000405	-.000255	-.003733	.0136939

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.009745**	**.0000043**	**.0000487**	**.0093511**	**.0002045**	**.0000123**
Stddev	.001970	.0000358	.0000509	.0016389	.0003687	.0000726
%RSD	20.21935	825.3596	104.5297	17.52644	180.2649	589.5051
#1	-.007490	-.000022	.0000197	.0110460	-.000186	-.000045
#2	-.010610	-.000010	.0001074	.0092326	.000546	.000094
#3	-.011134	.000045	.0000189	.0077746	.000253	-.000012

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000947**	**.0020646**	**.0002117**	**.0083111**	**.0003812**	**-.000064**
Stddev	.0001243	.0043944	.0002618	.0263520	.0001067	.000014
%RSD	131.2076	212.8528	123.6906	317.0678	27.98732	22.56028
#1	-.000000	-.002888	.0002522	.0035465	.0003820	-.000057
#2	.000235	.005497	.0004509	-.015333	.0002742	-.000081
#3	.000049	.003585	-.000068	.036720	.0004875	-.000054

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2522987**	**-.000879**	**.0003684**	**.3760660**	**.0028754**	**.0001690**
Stddev	.0089661	.000673	.0003493	.0462345	.0002414	.0001682
%RSD	3.553764	76.52663	94.82166	12.29424	8.393459	99.52595
#1	.2471362	-.001619	.0001689	.3518073	.0029095	.0001166
#2	.2626519	-.000716	.0007717	.3470097	.0026189	.0003572
#3	.2471081	-.000303	.0001645	.4293811	.0030980	.0000332

Reviewed By:
On:
Inst Id :P4
LB :LB137573

Sample Name: CCB08 Acquired: 10/16/2025 19:37:38 Type: Unk
Method: 6010-200.7 NEW(v286) 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	.0079357	-.000744	-.004229	.0002525	F .0142250	.0065703
Stddev	.0003271	.001777	.005874	.0019668	.0017483	.0014751
%RSD	4.122049	238.9864	138.8917	778.7878	12.29033	22.45107
#1	.0079823	.001219	-.010956	.0017071	.0146504	.0070250
#2	.0075877	-.001204	-.001608	-.001985	.0157213	.0049213
#3	.0082370	-.002245	-.000122	.001036	.0123033	.0077645

Elem	Sr4077
Units	ppm
Avg	-.000073
Stddev	.000070
%RSD	95.82037
#1	-.000079
#2	-.000000
#3	-.000140

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6038.824	99157.82	7651.411	4650.568	7946.741
Stddev	4.780	110.62	142.491	13.259	3.404
%RSD	.0791478	.1115566	1.862287	.2850954	.0428413
#1	6042.654	99030.37	7503.184	4641.412	7942.997
#2	6040.350	99228.84	7787.374	4665.772	7949.650
#3	6033.468	99214.25	7663.675	4644.519	7947.577

Reviewed By:
On:
Inst Id :P4
LB :LB137573

Sample Name: Q3357-04DUP Acquired: 10/16/2025 19:41:57 Type: Unk
Method: 6010-200.7 NEW(v286) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000486**	**-.007436**	**.0048288**	**.0059547**	**-.005080**	**.8675569**	**.1795733**
Stddev	.000688	.004456	.0000773	.0027019	.000744	.0125069	.0016354
%RSD	141.5826	59.92148	1.601097	45.37313	14.65381	1.441619	.9107150
#1	.000122	-.002334	.0047510	.0050471	-.005172	.8809856	.1805576
#2	-.000347	-.009415	.0048298	.0038236	-.005773	.8562409	.1776854
#3	-.001232	-.010560	.0049056	.0089935	-.004293	.8654442	.1804767

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0032837**	**.0006756**	**7.228445**	**.0500201**	**.0086903**	**.0133329**	**72.31766**
Stddev	.0000559	.0000445	.038288	.0000986	.0003461	.0001639	.53905
%RSD	1.703010	6.579210	.5296892	.1970524	3.982636	1.229128	.7453980
#1	.0033429	.0006478	7.270549	.0499308	.0089534	.0133812	72.93998
#2	.0032319	.0006520	7.195712	.0501259	.0082982	.0134673	72.01725
#3	.0032763	.0007268	7.219074	.0500036	.0088194	.0131504	71.99574

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.562805**	**.5506872**	**.0121765**	**-.012181**	**303.6352**	**-.001357**	**.6576399**
Stddev	.012739	.0268521	.0003337	.000397	5.4784	.002281	.0020010
%RSD	.8151307	4.876114	2.740337	3.258334	1.804263	168.1019	.3042689
#1	1.573497	.5483087	.0120173	-.011851	306.2788	-.003748	.6595646
#2	1.548710	.5251035	.0125599	-.012622	307.2904	.000796	.6555704
#3	1.566208	.5786495	.0119521	-.012071	297.3363	-.001119	.6577848

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5002740**	**.1170068**	**.1104943**	**-.018664**	**.0021633**	**1.164767**	**.0124094**
Stddev	.0158044	.0019349	.0007080	.000693	.0008564	.011852	.0013330
%RSD	3.159142	1.653673	.6407266	3.713541	39.58630	1.017502	10.74192
#1	.4923780	.1192166	.1111180	-.019391	.0029045	1.177620	.0115205
#2	.4899736	.1161870	.1097248	-.018591	.0012258	1.162409	.0139422
#3	.5184705	.1156167	.1106401	-.018010	.0023594	1.154271	.0117657

Reviewed By:
On:
Inst Id :P4
LB :LB137573

Sample Name: Q3357-04DUP Acquired: 10/16/2025 19:41:57 Type: Unk
Method: 6010-200.7 NEW(v286) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.6321940	.1024524	.0590495
Stddev	.0026234	.0015666	.0007708
%RSD	.4149704	1.529144	1.305336
#1	.6350430	.1042566	.0590324
#2	.6298781	.1016644	.0582874
#3	.6316609	.1014362	.0598287

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5509.286	87864.12	6931.985	4238.781	6192.524
Stddev	32.513	270.60	20.180	25.944	26.977
%RSD	.5901420	.3079718	.2911170	.6120742	.4356460
#1	5471.889	87684.33	6931.515	4209.285	6161.394
#2	5525.131	87732.71	6952.396	4248.989	6209.063
#3	5530.838	88175.33	6912.044	4258.069	6207.117

Reviewed By:
On:
Inst Id :P4
LB :LB137573

Sample Name: Q3357-04LX5 Acquired: 10/16/2025 19:46:16 Type: Unk
Method: 6010-200.7 NEW(v286) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.001994**	**-.007680**	**.0045450**	**.0073173**	**-.004174**	**.8127305**	**.1715149**
Stddev	.000794	.001432	.0010044	.0029724	.001749	.0023718	.0014250
%RSD	39.82072	18.65024	22.09976	40.62132	41.90710	.2918318	.8308207
#1	-.002399	-.006872	.0052464	.0044136	-.002693	.8131162	.1712754
#2	-.002503	-.006835	.0033944	.0071844	-.006104	.8148858	.1702248
#3	-.001079	-.009334	.0049943	.0103539	-.003725	.8101895	.1730444

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0029746**	**.0007505**	**6.717708**	**.0500144**	**.0092248**	**.0144749**	**75.14131**
Stddev	.0000540	.0004241	.015269	.0030297	.0000425	.0024336	3.22176
%RSD	1.815787	56.51356	.2272974	6.057600	.4610832	16.81255	4.287607
#1	.0030248	.0012108	6.735330	.0465291	.0092678	.0170805	71.44037
#2	.0029815	.0006653	6.708405	.0514952	.0092238	.0140835	76.66462
#3	.0029174	.0003754	6.709388	.0520188	.0091827	.0122607	77.31894

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.482774**	**.5496650**	**.0127562**	**-.011416**	**331.9439**	**-.000481**	**.6514700**
Stddev	.010563	.0179742	.0005109	.000870	17.4510	.001012	.0385847
%RSD	.7123842	3.270032	4.005269	7.623675	5.257205	210.4928	5.922717
#1	1.494455	.5704144	.0130672	-.010464	312.0006	-.000380	.6070604
#2	1.473894	.5397026	.0130350	-.012171	339.4186	-.001540	.6705723
#3	1.479972	.5388780	.0121666	-.011615	344.4126	.000477	.6767772

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4296151**	**.1333461**	**.1174409**	**-.018117**	**.0010498**	**1.226662**	**.0150887**
Stddev	.0495869	.0086341	.0022898	.000125	.0009744	.057953	.0015664
%RSD	11.54217	6.474973	1.949771	.6913571	92.81575	4.724475	10.38116
#1	.3803588	.1233872	.1188214	-.018174	.0007020	1.159750	.0168710
#2	.4289603	.1379219	.1187036	-.017973	.0021503	1.259322	.0144643
#3	.4795261	.1387292	.1147977	-.018203	.0002970	1.260914	.0139308

Reviewed By:
On:
Inst Id :P4
LB :LB137573

Sample Name: Q3357-04LX5 Acquired: 10/16/2025 19:46:16 Type: Unk
Method: 6010-200.7 NEW(v286) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.6721076	.0970615	.0505988
Stddev	.0195860	.0009482	.0034925
%RSD	2.914117	.9768922	6.902411
#1	.6834100	.0959693	.0546289
#2	.6834211	.0975419	.0487131
#3	.6494916	.0976733	.0484545

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5245.563	86830.06	7606.532	4247.305	5895.575
Stddev	90.351	3930.00	24.420	198.414	100.274
%RSD	1.722427	4.526085	.3210441	4.671537	1.700837
#1	5172.932	91366.44	7591.256	4476.414	5816.987
#2	5217.018	84666.15	7593.644	4132.398	5861.228
#3	5346.739	84457.59	7634.697	4133.103	6008.509

Reviewed By:
On:
Inst Id :P4
LB :LB137573

Sample Name: Q3357-04MS Acquired: 10/16/2025 19:50:34 Type: Unk
Method: 6010-200.7 NEW(v286) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.001149**	**-.002254**	**-.000395**	**.0000008**	**-.002106**	**.1850718**	**.0314970**
Stddev	.000525	.002478	.001871	.0036962	.000733	.0048725	.0008178
%RSD	45.65153	109.9650	473.4548	466281.7	34.81015	2.632762	2.596265
#1	-.001013	.000456	-.002520	-.004128	-.001572	.1795478	.0308640
#2	-.000707	-.002810	.000333	.001129	-.002942	.1869086	.0312068
#3	-.001729	-.004406	.001002	.003001	-.001805	.1887589	.0324203

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0006894**	**-.000084**	**1.491747**	**.0098841**	**.0016556**	**.0024680**	**14.83597**
Stddev	.0000366	.000016	.021252	.0002680	.0001047	.0001490	.21463
%RSD	5.305799	18.65252	1.424613	2.711662	6.323611	6.038526	1.446708
#1	.0006940	-.000077	1.505085	.0098399	.0016077	.0023056	14.97035
#2	.0007235	-.000074	1.502917	.0096409	.0015835	.0024999	14.94911
#3	.0006508	-.000102	1.467240	.0101714	.0017757	.0025986	14.58843

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3303789**	**.1078343**	**.0024798**	**-.002299**	**68.83877**	**.0003456**	**.1289738**
Stddev	.0045284	.0137608	.0000742	.000326	1.03461	.0014372	.0005543
%RSD	1.370682	12.76110	2.992140	14.16276	1.502944	415.8922	.4298113
#1	.3338099	.0996116	.0025638	-.002004	69.57435	.0017183	.1296007
#2	.3320806	.1001706	.0024526	-.002245	69.28620	.0004668	.1287723
#3	.3252461	.1237207	.0024231	-.002649	67.65574	-.001148	.1285484

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.6638996**	**.0218991**	**.0211575**	**.0040535**	**.0017157**	**.2311895**	**.0026041**
Stddev	.0302590	.0001621	.0002280	.0002419	.0010251	.0056438	.0005552
%RSD	4.557759	.7402335	1.077644	5.966431	59.74484	2.441216	21.32059
#1	.6387285	.0220082	.0213387	.0041245	.0016174	.2376605	.0025782
#2	.6554992	.0219764	.0212324	.0037841	.0027865	.2286229	.0031717
#3	.6974713	.0217129	.0209015	.0042519	.0007434	.2272851	.0020622

Reviewed By:
On:
Inst Id :P4
LB :LB137573

Sample Name: Q3357-04MS Acquired: 10/16/2025 19:50:34 Type: Unk
Method: 6010-200.7 NEW(v286) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.1290760	.0415314	.0132979
Stddev	.0013522	.0021680	.0000628
%RSD	1.047632	5.220103	.4720520
#1	.1303218	.0426596	.0133668
#2	.1292684	.0429025	.0132440
#3	.1276379	.0390319	.0132829

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5827.172	94160.34	7284.130	4554.782	6988.329
Stddev	11.158	402.18	19.014	10.238	17.875
%RSD	.1914764	.4271256	.2610266	.2247833	.2557775
#1	5834.555	94348.72	7297.113	4555.902	6991.385
#2	5814.337	93698.54	7262.306	4544.030	6969.123
#3	5832.625	94433.77	7292.971	4564.415	7004.478

Reviewed By:
On:
Inst Id :P4
LB :LB137573

Sample Name: Q3357-04MSD Acquired: 10/16/2025 19:54:49 Type: Unk
Method: 6010-200.7 NEW(v286) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7928601	1.836758	.9059510	1.989399	.7684825	2.817803	.3722994
Stddev	.0018821	.066384	.0016321	.002601	.0029739	.002760	.0001170
%RSD	.2373790	3.614212	.1801500	.1307601	.3869773	.0979346	.0314353
#1	.7947174	1.829560	.9066287	1.990346	.7667215	2.816339	.3723326
#2	.7929087	1.906448	.9071350	1.991393	.7668100	2.816084	.3721694
#3	.7909541	1.774266	.9040892	1.986456	.7719160	2.820986	.3723963

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1876620	.1902163	8.348555	.4622967	.2029485	.2904892	81.66226
Stddev	.0018063	.0001502	.019110	.0035877	.0003335	.0011679	1.07913
%RSD	.9625052	.0789410	.2288978	.7760498	.1643090	.4020591	1.321455
#1	.1859800	.1900499	8.327631	.4614187	.2028533	.2893408	82.02735
#2	.1874349	.1903419	8.365085	.4662418	.2026730	.2904509	82.51149
#3	.1895710	.1902570	8.352948	.4592295	.2033192	.2916758	80.44795

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.794631	2.392954	.4946358	.0644221	352.3695	.2850772	.8885673
Stddev	.005038	.012766	.0006541	.0002742	3.0249	.0011878	.0059136
%RSD	.2806998	.5334678	.1322320	.4256219	.8584374	.4166529	.6655251
#1	1.788884	2.378276	.4945636	.0641065	355.4627	.2839174	.8860784
#2	1.796728	2.399126	.4940209	.0645580	349.4180	.2862911	.8953186
#3	1.798282	2.401461	.4953230	.0646019	352.2277	.2850231	.8843049

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	10.84264	.3813724	.5094873	.6458510	.1817321	2.140784	5.839412
Stddev	.18029	.0019352	.0001054	.0009933	.0014107	.037456	.023898
%RSD	1.662797	.5074241	.0206787	.1537940	.7762247	1.749641	.4092455
#1	10.88319	.3798681	.5093785	.6469824	.1806200	2.163479	5.866964
#2	10.99920	.3835556	.5094947	.6454481	.1812574	2.161321	5.824322
#3	10.64552	.3806937	.5095888	.6451224	.1833188	2.097551	5.826948

Reviewed By:
On:
Inst Id :P4
LB :LB137573

Sample Name: Q3357-04MSD Acquired: 10/16/2025 19:54:49 Type: Unk
Method: 6010-200.7 NEW(v286) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.6308175	.2879837	.2382020
Stddev	.0023619	.0014949	.0013056
%RSD	.3744190	.5190990	.5480883
#1	.6314947	.2862962	.2376903
#2	.6327668	.2891421	.2372297
#3	.6281910	.2885127	.2396858

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5439.012	85638.65	7208.190	4074.657	6111.419
Stddev	8.169	776.89	43.480	38.409	5.009
%RSD	.1501925	.9071697	.6032085	.9426225	.0819595
#1	5448.116	85388.94	7246.313	4091.822	6116.980
#2	5436.599	85017.32	7217.422	4030.660	6107.261
#3	5432.321	86509.69	7160.835	4101.491	6110.016

Reviewed By:
On:
Inst Id :P4
LB :LB137573

Sample Name: Q3357-04A Acquired: 10/16/2025 19:58:57 Type: Unk
Method: 6010-200.7 NEW(v286) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.7599283**	**1.776301**	**.8745310**	**1.910182**	**.7476015**	**2.664747**	**.3632323**
Stddev	.0007450	.012973	.0012532	.010240	.0027884	.010079	.0010272
%RSD	.0980390	.7303414	.1432936	.5360818	.3729839	.3782228	.2827976
#1	.7607878	1.762107	.8731531	1.900591	.7493130	2.675788	.3643884
#2	.7595300	1.787546	.8756026	1.920967	.7491076	2.656041	.3628841
#3	.7594672	1.779249	.8748371	1.908990	.7443839	2.662413	.3624245

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1760160**	**.1833353**	**8.294959**	**.4218204**	**.1946644**	**.2802397**	**79.89092**
Stddev	.0010169	.0003040	.020016	.0025326	.0002922	.0008637	.62929
%RSD	.5777325	.1658073	.2412982	.6004079	.1501085	.3081888	.7876826
#1	.1759609	.1829870	8.317112	.4224529	.1943757	.2792986	80.59560
#2	.1770593	.1835469	8.289587	.4239768	.1946574	.2804245	79.69211
#3	.1750278	.1834720	8.278178	.4190314	.1949600	.2809961	79.38505

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.781626**	**2.312091**	**.4752315**	**.0591936**	**349.5945**	**.2705265**	**.8533418**
Stddev	.007755	.038971	.0013558	.0004686	7.3059	.0043545	.0081427
%RSD	.4352909	1.685526	.2852951	.7916158	2.089809	1.609620	.9542116
#1	1.790081	2.353385	.4739896	.0596826	353.8330	.2755492	.8564626
#2	1.779952	2.275958	.4750270	.0591498	353.7920	.2682162	.8594625
#3	1.774844	2.306928	.4766780	.0587485	341.1584	.2678140	.8441004

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**10.23744**	**.3652656**	**.5033611**	**.6338891**	**.1778049**	**2.107756**	**5.596140**
Stddev	.03059	.0005755	.0006311	.0021052	.0018182	.003817	.023094
%RSD	.2987766	.1575598	.1253713	.3321004	1.022567	.1810914	.4126742
#1	10.27257	.3657170	.5033764	.6314675	.1757072	2.110755	5.570168
#2	10.22302	.3654623	.5027225	.6349168	.1789267	2.109053	5.603892
#3	10.21673	.3646175	.5039844	.6352830	.1787810	2.103459	5.614362

Reviewed By:
On:
Inst Id :P4
LB :LB137573

Sample Name: Q3357-04A Acquired: 10/16/2025 19:58:57 Type: Unk
Method: 6010-200.7 NEW(v286) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.6294298	.2800163	.2303353
Stddev	.0012875	.0011696	.0013454
%RSD	.2045498	.4176978	.5841180
#1	.6309045	.2792668	.2318823
#2	.6285296	.2794181	.2294384
#3	.6288553	.2813640	.2296852

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5588.170	89696.78	7461.729	4305.202	6268.278
Stddev	2.265	377.03	24.103	37.948	1.758
%RSD	.0405272	.4203432	.3230222	.8814506	.0280409
#1	5586.195	89600.16	7468.113	4308.787	6267.213
#2	5590.642	89377.46	7435.077	4265.587	6270.306
#3	5587.673	90112.73	7481.998	4341.229	6267.313

Reviewed By:
On:
Inst Id :P4
LB :LB137573

Sample Name: PB170116TB Acquired: 10/16/2025 20:03:05 Type: Unk
Method: 6010-200.7 NEW(v286) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6682778	1.566461	.7849756	1.672221	.7578703	1.370458	.2402656
Stddev	.1183447	.305338	.1371973	.297930	.1360359	.164704	.0142577
%RSD	17.70890	19.49223	17.47790	17.81644	17.94976	12.01820	5.934118
#1	.5433010	1.286184	.6405002	1.363960	.6101673	1.209631	.2251188
#2	.6829013	1.521356	.8009261	1.694087	.7854223	1.362958	.2422525
#3	.7786311	1.891842	.9135004	1.958616	.8780213	1.538784	.2534257

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0959444	.1665801	7.702179	.2528258	.1769887	.2558268	78.37554
Stddev	.0148320	.0293533	.140829	.0316989	.0301401	.0429609	.14031
%RSD	15.45896	17.62116	1.828433	12.53785	17.02942	16.79295	.1790199
#1	.0807280	.1355780	7.540294	.2214091	.1450968	.2109018	78.22593
#2	.0967458	.1702162	7.769786	.2522686	.1808677	.2600701	78.50418
#3	.1103595	.1939459	7.796457	.2847996	.2050015	.2965086	78.39650

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.670299	1.077920	.4318710	.0250323	329.0938	.0790305	.7723522
Stddev	.029910	.157668	.0748872	.0049516	13.7423	.0214828	.0160520
%RSD	1.790727	14.62709	17.34018	19.78073	4.175792	27.18296	2.078324
#1	1.635763	.918016	.3526132	.0201473	313.2392	.0575786	.7561796
#2	1.687327	1.082492	.4415542	.0249018	336.4506	.0789687	.7725961
#3	1.687807	1.233253	.5014457	.0300479	337.5914	.1005442	.7882808

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.524181	.2565003	.5113619	.6481440	.0531301	1.543632	4.965977
Stddev	.595358	.0179565	.0723344	.1248904	.0157663	.065209	.886996
%RSD	16.89351	7.000578	14.14544	19.26893	29.67489	4.224412	17.86146
#1	2.944212	.2377846	.4327613	.5121066	.0369580	1.472842	4.040367
#2	3.494514	.2581300	.5261933	.6747141	.0539757	1.556804	5.049050
#3	4.133818	.2735865	.5751310	.7576114	.0684566	1.601249	5.808514

Reviewed By:
On:
Inst Id :P4
LB :LB137573

Sample Name: PB170116TB Acquired: 10/16/2025 20:03:05 Type: Unk
Method: 6010-200.7 NEW(v286) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.6439855	.1549867	.1078518
Stddev	.0078439	.0117151	.0145320
%RSD	1.218031	7.558807	13.47406
#1	.6446977	.1437611	.0928269
#2	.6358097	.1540624	.1088936
#3	.6514490	.1671366	.1218348

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5279.854	85008.23	7043.091	4077.148	5939.819
Stddev	10.990	209.58	72.412	6.905	19.164
%RSD	.2081541	.2465460	1.028134	.1693707	.3226286
#1	5286.139	84793.45	7124.627	4082.688	5950.506
#2	5286.259	85212.20	6986.279	4069.411	5951.256
#3	5267.163	85019.04	7018.365	4079.344	5917.695

Reviewed By:
On:
Inst Id :P4
LB :LB137573

Sample Name: CCV09 Acquired: 10/16/2025 20:07:15 Type: Unk
Method: 6010-200.7 NEW(v286) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCV09 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.738285**	**5.106025**	**4.599187**	**4.803718**	**4.778328**	F **8.991630**
Stddev	.030135	.225681	.028676	.031486	.018264	.040609
%RSD	.6359967	4.419896	.6235100	.6554600	.3822231	.4516272
#1	4.712960	4.887501	4.566605	4.771641	4.759832	9.038270
#2	4.771614	5.338240	4.610370	4.834579	4.778800	8.964117
#3	4.730281	5.092334	4.620588	4.804934	4.796351	8.972502

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **8.957810**	**.2338389**	**2.284051**	**22.58571**	**.9386774**	**2.290684**
Stddev	.042896	.0005391	.016465	.08235	.0213589	.014787
%RSD	.4788667	.2305219	.7208866	.3646333	2.275428	.6455061
#1	8.954345	.2344145	2.265039	22.67098	.9166607	2.273615
#2	9.002334	.2333459	2.293619	22.57951	.9593114	2.298868
#3	8.916752	.2337564	2.293496	22.50662	.9400602	2.299569

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.172037**	**4.655930**	**2.269733**	F **22.37818**	**2.290956**	**1.190507**
Stddev	.007020	.104535	.007630	.06163	.014840	.023626
%RSD	.5989544	2.245205	.3361831	.2754079	.6477532	1.984503
#1	1.164114	4.555239	2.267330	22.43648	2.273874	1.168120
#2	1.174515	4.763927	2.278275	22.38437	2.298318	1.215202
#3	1.177481	4.648623	2.263593	22.31369	2.300675	1.188200

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **22.40706**	**2.282271**	**2.397002**	**23.24619**	**4.707867**	**4.727773**
Stddev	.54684	.006277	.055718	.57817	.009650	.026830
%RSD	2.440472	.2750348	2.324488	2.487151	.2049703	.5674880
#1	21.94395	2.287790	2.341004	22.72334	4.718997	4.698337
#2	23.01034	2.283581	2.452436	23.86713	4.701835	4.750855
#3	22.26690	2.275442	2.397567	23.14810	4.702770	4.734127

Reviewed By:
On:
Inst Id :P4
LB :LB137573

Sample Name: CCV09 Acquired: 10/16/2025 20:07:15 Type: Unk
Method: 6010-200.7 NEW(v286) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCV09 Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.650409**	**4.515362**	**4.508112**	**4.776764**	**4.714434**	F **4.367053**
Stddev	.035570	.013042	.114378	.024587	.059477	.010595
%RSD	.7648695	.2888457	2.537161	.5147272	1.261603	.2426058
#1	4.610841	4.516842	4.410210	4.750536	4.650709	4.363736
#2	4.679730	4.527602	4.633834	4.799291	4.768475	4.378910
#3	4.660656	4.501643	4.480291	4.780465	4.724119	4.358515

Elem	Sr4077
Units	ppm
Avg	F **4.494210**
Stddev	.030282
%RSD	.6738096
#1	4.520041
#2	4.501705
#3	4.460883

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5688.557**	**91284.71**	**7137.435**	**4422.248**	**6591.914**
Stddev	22.665	1793.83	28.235	82.530	37.499
%RSD	.3984347	1.965090	.3955960	1.866241	.5688703
#1	5714.327	93133.21	7119.868	4510.016	6635.190
#2	5671.720	89551.08	7170.005	4346.213	6569.031
#3	5679.623	91169.83	7122.432	4410.514	6571.520

Reviewed By:
On:
Inst Id :P4
LB :LB137573

Sample Name: CCB09 Acquired: 10/16/2025 20:11:18 Type: Unk
Method: 6010-200.7 NEW(v286) 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	**.0000717**	**-.001002**	**-.000079**	**.0006430**	**-.002297**	**.0103672**
Stddev	.0008440	.001463	.000476	.0015643	.001301	.0104981
%RSD	1176.757	145.9939	605.7603	243.2781	56.65422	101.2634
#1	-.000862	-.002668	.000322	-.001160	-.001144	.0068303
#2	.000298	-.000412	-.000605	.001450	-.002038	.0020942
#3	.000780	.000073	.000047	.001639	-.003708	.0221770

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.011544**	**-.000058**	**.0000274**	**.0186943**	**.0003159**	**-.000028**
Stddev	.001034	.000047	.0000476	.0012911	.0000795	.000163
%RSD	8.961116	80.56938	173.4037	6.906584	25.16154	577.1685
#1	-.011080	-.000110	.0000824	.0183246	.0002259	-.000191
#2	-.010824	-.000048	-.000001	.0176283	.0003451	.000135
#3	-.012730	-.000018	.000000	.0201299	.0003766	-.000029

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000319**	**.0014916**	**-.000082**	**-.015460**	**.0001137**	**-.000103**
Stddev	.0004622	.0076825	.000492	.036294	.0002124	.000174
%RSD	1446.848	515.0603	598.3739	234.7684	186.7997	169.0371
#1	-.000498	.0059842	.000265	.021585	.0003468	.000097
#2	.000349	.0058697	.000134	-.050953	.0000633	-.000218
#3	.000245	-.007379	-.000646	-.017011	-.000069	-.000187

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3673602**	**-.001447**	**.0002055**	**.5582540**	**.0037528**	**.0001099**
Stddev	.0171222	.002424	.0000275	.0390715	.0006869	.0001204
%RSD	4.660885	167.5946	13.39385	6.998882	18.30323	109.4963
#1	.3850427	-.003492	.0001777	.5392981	.0045450	.0001783
#2	.3508594	-.002079	.0002060	.5322765	.0033218	.0001805
#3	.3661786	.001231	.0002328	.6031874	.0033917	-.000029

Reviewed By:
On:
Inst Id :P4
LB :LB137573

Sample Name: CCB09 Acquired: 10/16/2025 20:11:18 Type: Unk
Method: 6010-200.7 NEW(v286) 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	.0087203	-.001082	-.011043	.0008210	F .0108519	.0093719
Stddev	.0006323	.001432	.001805	.0002559	.0015646	.0008160
%RSD	7.251043	132.3915	16.34852	31.16552	14.41762	8.707245
#1	.0081777	-.001747	-.010057	.0006747	.0101098	.0097999
#2	.0094147	-.002060	-.013127	.0006718	.0097964	.0084309
#3	.0085685	.000562	-.009946	.0011164	.0126494	.0098850

Elem	Sr4077
Units	ppm
Avg	.0000389
Stddev	.0000500
%RSD	128.3706
#1	.0000236
#2	-.000002
#3	.000095

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5941.350	93773.97	7295.023	4538.019	7688.931
Stddev	114.527	517.01	36.871	7.786	141.493
%RSD	1.927618	.5513323	.5054331	.1715807	1.840219
#1	6054.093	93283.92	7284.383	4529.065	7830.293
#2	5825.120	94314.27	7264.641	4543.204	7547.307
#3	5944.836	93723.74	7336.044	4541.787	7689.192

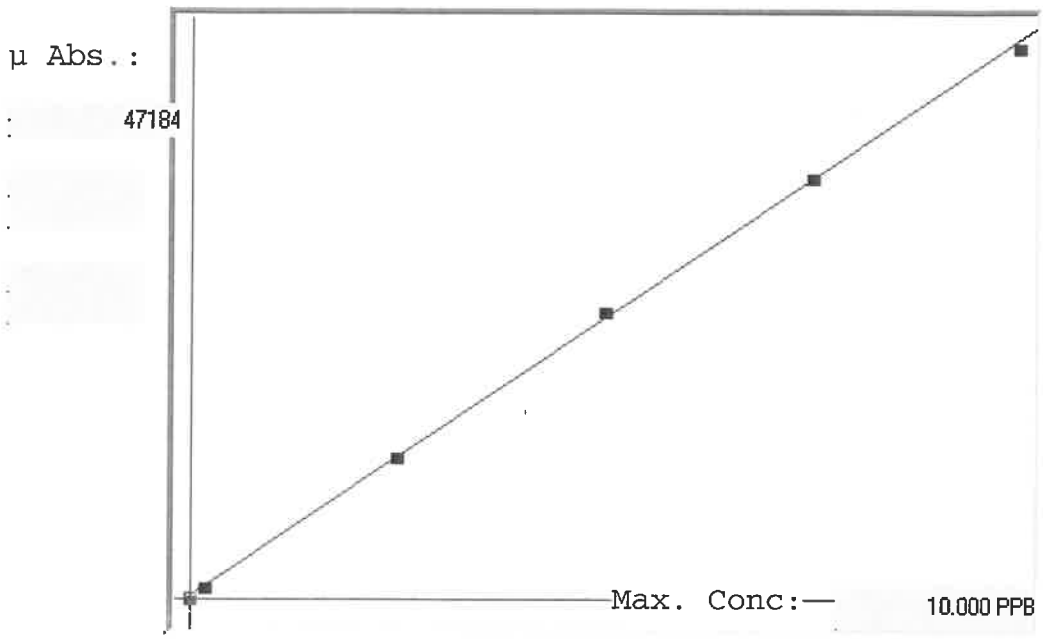
Reviewed By:jaswal
On:10/16/2025
11:28:01 PM
Inst Id :CV1
LB :LB137528

LB137528

7471B

INSTRUMENT ID: CV1

Linear



A= 0.0000e+000

B= 2.1065e-004

C= -5.0133e-002

Rho= 0.9997653

Accept=Accepted

Std ID	Conc.	Calc.	Dev.	Mean	SD or %RSD	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5
0.0	0.000	-0.051	-0.051	-3	0.000	-3				
0.2	0.200	0.163	-0.037	1013	0.0 %	1013				
2.5	2.500	2.511	0.011	12160	0.0 %	12160				
5.0	5.000	5.141	0.141	24645	0.0 %	24645				
7.5	7.500	7.545	0.045	36056	0.0 %	36056				
10.0	10.000	9.889	-0.111	47184	0.0 %	47184				

Reviewed By:jaswal
On:10/16/2025
11:28:01 PM
Inst Id :CV1
LB :LB137528

LB137528 INSTRUMENTID : CV1

Method: 7471B Operator: Admin Date of Analysis: 15 Oct 2025 08:34:30

Type	Sample ID	Extended ID	Conc.	µ Abs.	Units	Type	Stnd Conc	Method	Date
S	0.0 - 1	S0	-	-3	PPB	Std	0.00000	7471B	15 Oct 2025 08:47:14
S	0.2 - 1	S0.2	-	1013	PPB	Std	0.20000	7471B	15 Oct 2025 08:49:32
S	2.5 - 1	S2.5	-	12160	PPB	Std	2.50000	7471B	15 Oct 2025 08:51:49
S	5.0 - 1	S5	-	24645	PPB	Std	5.00000	7471B	15 Oct 2025 08:54:14
S	7.5 - 1	S7.5	-	36056	PPB	Std	7.50000	7471B	15 Oct 2025 08:56:41
S	10.0 - 1	S10	-	47184	PPB	Std	10.00000	7471B	15 Oct 2025 08:59:21
U	ICV71 - 1	ICV71	3.8931	18719	PPB	SMPL		7471B	15 Oct 2025 09:02:56
U	ICB71 - 1	ICB71	-0.0345	74	PPB	SMPL		7471B	15 Oct 2025 09:08:30
U	CCV29 - 1	CCV29	5.1690	24776	PPB	SMPL		7471B	15 Oct 2025 09:10:44
U	CCB29 - 1	CCB29	-0.0723	-105	PPB	SMPL		7471B	15 Oct 2025 09:12:59
U	HighStd - 1	HighStd	10.1213	48285	PPB	SMPL		7471B	15 Oct 2025 09:17:54
U	ChkStd - 1	ChkStd	6.8181	32604	PPB	SMPL		7471B	15 Oct 2025 09:20:09
U	PB170097BL - 1	PBS	-0.0788	-136	PPB	SMPL		7471B	15 Oct 2025 09:22:55
U	PB170097BS - 1	LCSS	3.8602	18563	PPB	SMPL		7471B	15 Oct 2025 09:28:19
U	Q3337-01 - 1	LAYDOWN-YARD-1	0.1428	916	PPB	SMPL		7471B	15 Oct 2025 09:30:39
U	Q3337-03 - 1	LAYDOWN-YARD-2	0.2825	1579	PPB	SMPL		7471B	15 Oct 2025 09:33:17
U	Q3341-01 - 1	C-1	0.2840	1586	PPB	SMPL		7471B	15 Oct 2025 09:35:34
U	Q3341-02 - 1	C-2	0.2669	1505	PPB	SMPL		7471B	15 Oct 2025 09:37:58
U	Q3341-03 - 1	C-3	0.0537	493	PPB	SMPL		7471B	15 Oct 2025 09:40:14
U	CCV30 - 1	CCV30	5.0959	24429	PPB	SMPL		7471B	15 Oct 2025 09:42:29
U	CCB30 - 1	CCB30	-0.0624	-58	PPB	SMPL		7471B	15 Oct 2025 09:44:45
U	Q3342-01 - 1	CONC-ROLLOFF-WC-1	3.2386	15612	PPB	SMPL		7471B	15 Oct 2025 09:47:25
U	Q3343-01 - 1	SOIL-ROLLOFF-WC-1	3.1655	15265	PPB	SMPL		7471B	15 Oct 2025 09:49:40
U	Q3343-01DUP - 1	SOIL-ROLLOFF-WC-1DUP	3.8166	18356	PPB	SMPL		7471B	15 Oct 2025 09:52:16
U	Q3343-01MS - 1	SOIL-ROLLOFF-WC-1MS	6.9032	33008	PPB	SMPL		7471B	15 Oct 2025 09:54:51
U	Q3343-01MSD - 1	SOIL-ROLLOFF-WC-1MSD	7.0110	33520	PPB	SMPL		7471B	15 Oct 2025 10:03:10
U	Q3345-01 - 1	TANK-FARM-SOIL	3.1023	14965	PPB	SMPL		7471B	15 Oct 2025 10:05:35
U	Q3345-03 - 1	2ND-STREET-SOIL	0.2779	1557	PPB	SMPL		7471B	15 Oct 2025 10:08:20
U	Q3345-05 - 1	M-R-SOIL	6.0003	28722	PPB	SMPL		7471B	15 Oct 2025 10:10:46
U	Q3343-01LX5 - 1		0.6406	3279	PPB	SMPL		7471B	15 Oct 2025 10:13:03
U	Q3343-01A - 1		7.3948	35342	PPB	SMPL		7471B	15 Oct 2025 10:15:44
U	CCV31 - 1	CCV31	5.0997	24447	PPB	SMPL		7471B	15 Oct 2025 10:18:01
U	CCB31 - 1	CCB31	-0.0276	107	PPB	SMPL		7471B	15 Oct 2025 10:23:41
U	CRA - 1	CRA	0.1685	1038	PPB	SMPL		7471B	15 Oct 2025 10:27:49
U	CCV32 - 1	CCV32	5.1992	24919	PPB	SMPL		7471B	15 Oct 2025 10:30:37
U	CCB32 - 1	CCB32	0.0598	522	PPB	SMPL		7471B	15 Oct 2025 10:32:52

Alliance TECHNICAL GROUP

Soil/Sludge Metals Preparation Sheet

PB170107

SOP ID : M3050B-Digestion-20

SDG No : N/A

Matrix : SOIL

Pippete ID: ICP A

Balance ID : M SC-2

Filter paper ID : N/A

pH Strip ID : N/A

Hood ID : #3

Block ID: 1. HOT BLOCK #2 2. N/A

Start Digest Date: 10/15/2025 **Time :** 10:45 **Temp :** 96 °C

End Digest Date: 10/15/2025 **Time :** 12:45 **Temp :** 96 °C

Digestion tube ID: M6054

Block thermometer ID: MET-DIG. #2

Dig Technician Signature: SLS.

Supervisor Signature: SD

Temp : 1. 96°C 2. N/A

Standared Name	MLS USED	STD REF. # FROM LOG
LFS-1	1.00	M6209
LFS-2	1.00	M6201
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
Conc. HNO3	5.00	M6158
1:1 HNO3	10.00	MP86978
30% H2O2	3.00	M6170
Conc. HCL	10.00	M6151
PTFE Boiling Stones	N/A	M5581
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

HOT BLOCK#2 CELL#35 96C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
10/15/25 13:45	SLS metals	SD (Metals Lab)
	Preparation Group	Analysis Group

Alliance TECHNICAL GROUP

Soil/Sludge Metals Preparation Sheet

PB170107

Lab Sample ID	Client Sample ID	pH	Initial Weight (g)	Final Vol (ml)	Color Before	Color After	Texture	Artifact	Comment	Prep Pos
PB170107BL	PBS107	N/A	2.00	100	Brown	Yellow	Medium	No	N/A	1
PB170107BS	LCS107	N/A	2.00	100	Brown	Yellow	Medium	No	M6209,M6201	2
Q3150-06	MER RD CON ED	N/A	2.16	100	Brown	Yellow	Medium	No	N/A	3
Q3150-07	MID SITE GRID 5-7	N/A	2.16	100	Brown	Yellow	Medium	No	N/A	4
Q3340-01	CONCRETE-1	N/A	2.40	100	Brown	Yellow	Medium	No	N/A	5
Q3340-02	CONCRETE-2	N/A	2.20	100	Brown	Yellow	Medium	No	N/A	6
Q3340-03	CONCRETE-3	N/A	2.24	100	Brown	Yellow	Medium	No	N/A	7
Q3341-01	C-1	N/A	2.40	100	Brown	Yellow	Medium	No	N/A	8
Q3341-02	C-2	N/A	2.36	100	Brown	Yellow	Medium	No	N/A	9
Q3341-03	C-3	N/A	2.30	100	Brown	Yellow	Medium	No	N/A	10
Q3342-01	CONC-ROLLOFF-WC-1	N/A	2.30	100	Brown	Yellow	Medium	No	N/A	11
Q3343-01	SOIL-ROLLOFF-WC-1	N/A	2.28	100	Brown	Yellow	Medium	No	N/A	12
Q3345-01	TANK-FARM-SOIL	N/A	2.22	100	Brown	Yellow	Medium	No	N/A	13
Q3345-03	2ND-STREET-SOIL	N/A	2.32	100	Brown	Yellow	Medium	No	N/A	14
Q3345-03MS	2ND-STREET-SOILMS	N/A	2.14	100	Brown	Yellow	Medium	No	M6209,M6201	16
Q3345-03MSD	2ND-STREET-SOILMSD	N/A	2.27	100	Brown	Yellow	Medium	No	M6209,M6201	17
Q3345-03DUP	2ND-STREET-SOILDUP	N/A	2.28	100	Brown	Yellow	Medium	No	N/A	15
Q3345-05	M-R-SOIL	N/A	2.34	100	Brown	Yellow	Medium	No	N/A	18

WORKLIST(Hardcopy Internal Chain)

WorkList Name : PB170107 **WorkList ID :** 192474 **Department :** Digestion **Date :** 10-15-2025 09:52:56

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q3150-06	MER Rd Con Ed	Solid	Metals ICP-RCRA	Cool 4 deg C	SCAL01		09/18/2025	6010D
Q3150-07	Mid Site Grid 5-7	Solid	Metals ICP-RCRA	Cool 4 deg C	SCAL01		09/18/2025	6010D
Q3340-01	CONCRETE-1	Solid	Metals Group3	Cool 4 deg C	PSEG03	D21	10/14/2025	6010D
Q3340-02	CONCRETE-2	Solid	Metals Group3	Cool 4 deg C	PSEG03	D21	10/14/2025	6010D
Q3340-03	CONCRETE-3	Solid	Metals Group3	Cool 4 deg C	PSEG03	D21	10/14/2025	6010D
Q3341-01	C-1	Solid	Metals ICP-Group1	Cool 4 deg C	POWE02	J12	10/13/2025	6010D
Q3341-02	C-2	Solid	Metals ICP-Group1	Cool 4 deg C	POWE02	J12	10/13/2025	6010D
Q3341-03	C-3	Solid	Metals ICP-Group1	Cool 4 deg C	POWE02	J12	10/13/2025	6010D
Q3342-01	CONC-ROLLOFF-WC-1	Solid	Metals ICP-TAL	Cool 4 deg C	PSEG03	D31	10/14/2025	6010D
Q3343-01	SOIL-ROLLOFF-WC-1	Solid	Metals ICP-TAL	Cool 4 deg C	PSEG03	D31	10/14/2025	6010D
Q3345-01	TANK-FARM-SOIL	Solid	Metals ICP-TAL	Cool 4 deg C	PSEG03	D31	10/14/2025	6010D
Q3345-03	2ND-STREET-SOIL	Solid	Metals ICP-TAL	Cool 4 deg C	PSEG03	D31	10/14/2025	6010D
Q3345-05	M-R-SOIL	Solid	Metals ICP-TAL	Cool 4 deg C	PSEG03	D31	10/14/2025	6010D

Date/Time 10/15/25 10:15
Raw Sample Received by: SPS metdio
Raw Sample Relinquished by: CAPCSmg

Date/Time 10/15/25 11:15
Raw Sample Received by: CAPCSmg
Raw Sample Relinquished by: SPS metdio

Alliance TECHNICAL GROUP

Soil/Sludge Mercury Preparation Sheet

PB170097

SOP ID : M7471B-Mercury-19

SDG No : N/A

Matrix : SOIL

Pippete ID: HG A

Balance ID : M SC-3

Filter paper ID : N/A

pH Strip ID : N/A

Hood ID : #1

Block ID: 1. HG HOT BLOCK#3 2. N/A

Start Digest Date: 10/14/2025 **Time :** 16:20 **Temp :** 95 °C

End Digest Date: 10/14/2025 **Time :** 16:50 **Temp :** 95 °C

Digestion tube ID: M5595

Block thermometer ID: HG-DIG#3

Dig Technician Signature: MR

Supervisor Signature: JZ

Temp : 1. 95°C 2. N/A

Standared Name	MLS USED	STD REF. # FROM LOG
ICV	30mL	MP87569
CCV	30mL	MP87572
CRA	30mL	MP87574
Blank Spike	0.48mL	MP87561
Matrix Spike	0.48mL	MP87561

Chemical Used	ML/SAMPLE USED	Lot Number
AQUA REGIA	1.5Ml	MP87577
KMnO4 (5%)	4.5mL	MP87072
Hydroxylamine HCL (12%)	2.4mL	MP87149
PTFE Boiling Stones	N/A	M5582
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

LAB SAMPLE ID	CLIENT SAMPLE ID	Wt(g)/Vol(ml)	Comment
0.0 ppb	S0	30Ml	MP87562
0.05 ppb	S0.05	N/A	N/A
0.2 ppb	S0.2	30Ml	MP87563
2.5 ppb	S2.5	30Ml	MP87564
5.0 ppb	S5.0	30Ml	MP87565
7.5 ppb	S7.5	30mL	MP87567
10.0 ppb	S10.0	30mL	MP87568
ICV	ICV	30Ml	MP87569
ICB	ICB	30Ml	MP87571
CCV	CCV	30Ml	MP87572
CCB	CCB	30Ml	MP87573
CRI	CRI	30Ml	MP87574
CHK STD	CHK STD	30Ml	MP87577

Extraction Conformance/Non-Conformance Comments:

N/A

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
10/14/25 17:40	[illegible]	[illegible]
	Preparation Group	**Analysis Group**

Alliance TECHNICAL GROUP

Soil/Sludge Mercury Preparation Sheet

PB170097

Lab Sample ID	Client Sample ID	Initial Weight (g)	Final Vol (ml)	pH	Comment	Prep Pos
PB170097BL	PBS097	0.50	35	N/A	N/A	3-1
PB170097BS	LCS097	0.50	35	N/A	MP87561	2
Q3337-01	LAYDOWN-YARD-1	0.52	35	N/A	N/A	3
Q3337-03	LAYDOWN-YARD-2	0.53	35	N/A	N/A	4
Q3341-01	C-1	0.54	35	N/A	N/A	5
Q3341-02	C-2	0.58	35	N/A	N/A	6
Q3341-03	C-3	0.56	35	N/A	N/A	7
Q3342-01	CONC-ROLLOFF-WC-1	0.58	35	N/A	N/A	8
Q3343-01	SOIL-ROLLOFF-WC-1	0.52	35	N/A	N/A	9
Q3343-01MS	SOIL-ROLLOFF-WC-1MS	0.57	35	N/A	MP87561	11
Q3343-01MSD	SOIL-ROLLOFF-WC-1MSD	0.57	35	N/A	MP87561	12
Q3343-01DUP	SOIL-ROLLOFF-WC-1DUP	0.57	35	N/A	N/A	10
Q3345-01	TANK-FARM-SOIL	0.50	35	N/A	N/A	13
Q3345-03	2ND-STREET-SOIL	0.53	35	N/A	N/A	14
Q3345-05	M-R-SOIL	0.60	35	N/A	N/A	15

WORKLIST(Hardcopy Internal Chain)

WorkList Name : 101425_7471 **WorkList ID :** 192442 **Department :** Digestion **Date :** 10-14-2025 14:12:35

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q3337-01	LAYDOWN-YARD-1	Solid	Mercury	Cool 4 deg C	PSEG03	D31	10/13/2025	7471B
Q3337-03	LAYDOWN-YARD-2	Solid	Mercury	Cool 4 deg C	PSEG03	D31	10/13/2025	7471B
Q3341-01	C-1	Solid	Mercury	Cool 4 deg C	POWE02	J12	10/13/2025	7471B
Q3341-02	C-2	Solid	Mercury	Cool 4 deg C	POWE02	J12	10/13/2025	7471B
Q3341-03	C-3	Solid	Mercury	Cool 4 deg C	POWE02	J12	10/13/2025	7471B
Q3342-01	CONC-ROLLOFF-WC-1	Solid	Mercury	Cool 4 deg C	PSEG03	D31	10/14/2025	7471B
Q3343-01	SOIL-ROLLOFF-WC-1	Solid	Mercury	Cool 4 deg C	PSEG03	D31	10/14/2025	7471B
Q3345-01	TANK-FARM-SOIL	Solid	Mercury	Cool 4 deg C	PSEG03	D31	10/14/2025	7471B
Q3345-03	2ND-STREET-SOIL	Solid	Mercury	Cool 4 deg C	PSEG03	D31	10/14/2025	7471B
Q3345-05	M-R-SOIL	Solid	Mercury	Cool 4 deg C	PSEG03	D31	10/14/2025	7471B

Date/Time 10/14/25 @ 16:02

Raw Sample Received by: [illegible]

Raw Sample Relinquished by: [illegible]

Date/Time 10/14/25 @ 16:40

Raw Sample Received by: [illegible]

Raw Sample Relinquished by: [illegible]

PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 10/15/2025

OVENTEMP IN Celsius(°C): 107
Time IN: 17:25
In Date: 10/14/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 104
Time OUT: 08:15
Out Date: 10/15/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID-OVEN

QC: LB137520

Lab ID	Client SampleID	Dish #	Dish Wt(g) (A)	Sample Wt(g)	Dish + Sample Wt(g) (B)	Dish+Dry Sample Wt(g) (C)	% Solid	Comments
Q3340-01	CONCRETE-1	1	1.00	1.00	2.00	2.00	100.0	Concreate sample
Q3340-02	CONCRETE-2	2	1.00	1.00	2.00	2.00	100.0	Concreate sample
Q3340-03	CONCRETE-3	3	1.00	1.00	2.00	2.00	100.0	Concreate sample
Q3341-01	C-1	4	1.18	10.40	11.58	9.39	78.9	
Q3341-02	C-2	5	1.16	10.33	11.49	9.7	82.7	
Q3341-03	C-3	6	1.19	10.64	11.83	9.71	80.1	
Q3342-01	CONC-ROLLOFF-WC-1	7	1.14	10.24	11.38	9.8	84.6	
Q3343-01	SOIL-ROLLOFF-WC-1	8	1.15	10.46	11.61	10.6	90.3	
Q3343-02	SOIL-ROLLOFF-WC-1-EPH	9	1.11	10.68	11.79	10.71	89.9	
Q3343-03	SOIL-ROLLOFF-WC-1-VOC	10	1.16	10.74	11.9	10.82	89.9	
Q3345-01	TANK-FARM-SOIL	11	1.18	10.48	11.66	9.98	84.0	
Q3345-03	2ND-STREET-SOIL	12	1.14	10.85	11.99	10.63	87.5	
Q3345-05	M-R-SOIL	13	1.11	10.72	11.83	10.38	86.5	

$$\% \text{ Solid} = \frac{(C-A) * 100}{(B-A)}$$

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Fax : 908 789 8922

Instrument ID: CV1

Daily Analysis Runlog For Sequence/QCBatch ID # LB137528

Review By	Sagar	Review On	10/16/2025 12:12:58 PM
Supervise By	jaswal	Supervise On	10/16/2025 11:28:01 PM

STD. NAME	STD REF.#
ICAL Standard	MP87584,MP87585,MP87586,MP87587,MP87588,MP87589,MP87590
ICV Standard	MP87591
CCV Standard	MP87593
ICSA Standard	
CRI Standard	MP87595
LCS Standard	
Chk Standard	MP87592,MP87594,MP87596,MP87598

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	S0	S0	CAL1	10/15/25 08:47		Ayul	OK
2	S0.2	S0.2	CAL2	10/15/25 08:49		Ayul	OK
3	S2.5	S2.5	CAL3	10/15/25 08:51		Ayul	OK
4	S5	S5	CAL4	10/15/25 08:54		Ayul	OK
5	S7.5	S7.5	CAL5	10/15/25 08:56		Ayul	OK
6	S10	S10	CAL6	10/15/25 08:59		Ayul	OK
7	ICV71	ICV71	ICV	10/15/25 09:02		Ayul	OK
8	ICB71	ICB71	ICB	10/15/25 09:08		Ayul	OK
9	CCV29	CCV29	CCV	10/15/25 09:10		Ayul	OK
10	CCB29	CCB29	CCB	10/15/25 09:12		Ayul	OK
11	HighStd	HighStd	HIGH STD	10/15/25 09:17		Ayul	OK
12	ChkStd	ChkStd	SAM	10/15/25 09:20		Ayul	OK
13	PB170097BL	PB170097BL	MB	10/15/25 09:22		Ayul	OK
14	PB170097BS	PB170097BS	LCS	10/15/25 09:28		Ayul	OK
15	Q3337-01	LAYDOWN-YARD-1	SAM	10/15/25 09:30		Ayul	OK
16	Q3337-03	LAYDOWN-YARD-2	SAM	10/15/25 09:33		Ayul	OK
17	Q3341-01	C-1	SAM	10/15/25 09:35		Ayul	OK
18	Q3341-02	C-2	SAM	10/15/25 09:37		Ayul	OK

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Fax : 908 789 8922

Instrument ID: CV1

Daily Analysis Runlog For Sequence/QCBatch ID # LB137528

Review By	Sagar	Review On	10/16/2025 12:12:58 PM
Supervise By	jaswal	Supervise On	10/16/2025 11:28:01 PM

STD. NAME	STD REF.#
ICAL Standard	MP87584,MP87585,MP87586,MP87587,MP87588,MP87589,MP87590
ICV Standard	MP87591
CCV Standard	MP87593
ICSA Standard	
CRI Standard	MP87595
LCS Standard	
Chk Standard	MP87592,MP87594,MP87596,MP87598

19	Q3341-03	C-3	SAM	10/15/25 09:40		Ayul	OK
20	CCV30	CCV30	CCV	10/15/25 09:42		Ayul	OK
21	CCB30	CCB30	CCB	10/15/25 09:44		Ayul	OK
22	Q3342-01	CONC-ROLLOFF-WC	SAM	10/15/25 09:47		Ayul	OK
23	Q3343-01	SOIL-ROLLOFF-WC-	SAM	10/15/25 09:49		Ayul	OK
24	Q3343-01DUP	SOIL-ROLLOFF-WC-	DUP	10/15/25 09:52		Ayul	OK
25	Q3343-01MS	SOIL-ROLLOFF-WC-	MS	10/15/25 09:54		Ayul	OK
26	Q3343-01MSD	SOIL-ROLLOFF-WC-	MSD	10/15/25 10:03		Ayul	OK
27	Q3345-01	TANK-FARM-SOIL	SAM	10/15/25 10:05		Ayul	OK
28	Q3345-03	2ND-STREET-SOIL	SAM	10/15/25 10:08		Ayul	OK
29	Q3345-05	M-R-SOIL	SAM	10/15/25 10:10		Ayul	OK
30	Q3343-01L	SOIL-ROLLOFF-WC-	SD	10/15/25 10:13		Ayul	OK
31	Q3343-01A	SOIL-ROLLOFF-WC-	PS	10/15/25 10:15		Ayul	OK
32	CCV31	CCV31	CCV	10/15/25 10:18		Ayul	OK
33	CCB31	CCB31	CCB	10/15/25 10:23		Ayul	OK
34	CRA	CRA	CRDL	10/15/25 10:27		Ayul	OK
35	CCV32	CCV32	CCV	10/15/25 10:30		Ayul	OK
36	CCB32	CCB32	CCB	10/15/25 10:32		Ayul	OK

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB137561

Review By	Janvi	Review On	10/17/2025 12:20:45 PM
Supervise By	jaswal	Supervise On	10/17/2025 1:18:42 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	10/15/25 13:15		Jaswal	OK
2	S1	S1	CAL2	10/15/25 13:19		Jaswal	OK
3	S2	S2	CAL3	10/15/25 13:24		Jaswal	OK
4	S3	S3	CAL4	10/15/25 13:28		Jaswal	OK
5	S4	S4	CAL5	10/15/25 13:32		Jaswal	OK
6	S5	S5	CAL6	10/15/25 13:36		Jaswal	OK
7	ICV01	ICV01	ICV	10/15/25 14:07		Jaswal	OK
8	LLICV01	LLICV01	LLICV	10/15/25 14:19		Jaswal	OK
9	ICB01	ICB01	ICB	10/15/25 14:24		Jaswal	OK
10	CRI01	CRI01	CRDL	10/15/25 14:28		Jaswal	OK
11	ICSA01	ICSA01	ICSA	10/15/25 14:39		Jaswal	OK
12	ICSAB01	ICSAB01	ICSAB	10/15/25 14:52		Jaswal	OK
13	ICSADL	ICSADL	ICSA	10/15/25 14:56		Jaswal	OK
14	ICSABDL	ICSABDL	ICSAB	10/15/25 15:00		Jaswal	OK
15	CCV01	CCV01	CCV	10/15/25 15:09		Jaswal	OK
16	CCB01	CCB01	CCB	10/15/25 15:13		Jaswal	OK
17	LR-2	LR-2	HIGH STD	10/15/25 15:22		Jaswal	OK
18	LR-3	LR-3	HIGH STD	10/15/25 16:06		Jaswal	OK

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB137561

Review By	Janvi	Review On	10/17/2025 12:20:45 PM
Supervise By	jaswal	Supervise On	10/17/2025 1:18:42 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	LR-1	LR-1	HIGH STD	10/15/25 16:12		Jaswal	OK
20	CCV02	CCV02	CCV	10/15/25 16:28		Jaswal	OK
21	CCB02	CCB02	CCB	10/15/25 16:32		Jaswal	OK
22	PB170089BL	PB170089BL	MB	10/15/25 16:36		Jaswal	OK
23	PB170089BS	PB170089BS	LCS	10/15/25 16:43		Jaswal	OK
24	Q3337-01	LAYDOWN-YARD-1	SAM	10/15/25 16:47		Jaswal	OK
25	Q3337-03	LAYDOWN-YARD-2	SAM	10/15/25 16:51		Jaswal	OK
26	Q3337-03DUP	LAYDOWN-YARD-2D	DUP	10/15/25 16:55		Jaswal	OK
27	Q3337-03L	LAYDOWN-YARD-2L	SD	10/15/25 16:59		Jaswal	OK
28	Q3337-03MS	LAYDOWN-YARD-2M	MS	10/15/25 17:04		Jaswal	OK
29	Q3337-03MSD	LAYDOWN-YARD-2M	MSD	10/15/25 17:08		Jaswal	OK
30	Q3337-03A	LAYDOWN-YARD-2A	PS	10/15/25 17:12	0.1 ml of each M6008 AND M6017 IN 10ML SAMPLE.	Jaswal	OK
31	PB170108BL	PB170108BL	MB	10/15/25 17:16		Jaswal	OK
32	CCV03	CCV03	CCV	10/15/25 17:21		Jaswal	OK
33	CCB03	CCB03	CCB	10/15/25 17:25		Jaswal	OK
34	PB170108BS	PB170108BS	LCS	10/15/25 17:29		Jaswal	OK
35	Q3345-07	TANK-FARM-WATER	SAM	10/15/25 17:33		Jaswal	OK
36	Q3345-07DUP	TANK-FARM-WATERI	DUP	10/15/25 17:37		Jaswal	OK
37	Q3345-07L	TANK-FARM-WATERI	SD	10/15/25 17:41		Jaswal	OK

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB137561

Review By	Janvi	Review On	10/17/2025 12:20:45 PM
Supervise By	jaswal	Supervise On	10/17/2025 1:18:42 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

38	Q3345-07MS	TANK-FARM-WATERI	MS	10/15/25 17:45		Jaswal	OK
39	Q3345-07MSD	TANK-FARM-WATERI	MSD	10/15/25 17:49		Jaswal	OK
40	Q3345-07A	TANK-FARM-WATERA	PS	10/15/25 17:53	0.1 ml of each M6008 AND M6017 IN 10ML SAMPLE.	Jaswal	OK
41	Q3150-06	MER Rd Con Ed	SAM	10/15/25 18:05		Jaswal	OK
42	CCV04	CCV04	CCV	10/15/25 18:10		Jaswal	OK
43	CCB04	CCB04	CCB	10/15/25 18:14		Jaswal	OK
44	Q3150-07	Mid Site Grid 5-7	SAM	10/15/25 18:18		Jaswal	OK
45	Q3345-01	TANK-FARM-SOIL	SAM	10/15/25 18:22		Jaswal	OK
46	Q3345-03	2ND-STREET-SOIL	SAM	10/15/25 18:26		Jaswal	OK
47	Q3345-03DUP	2ND-STREET-SOILD	DUP	10/15/25 18:30		Jaswal	OK
48	Q3345-03L	2ND-STREET-SOILL	SD	10/15/25 18:34		Jaswal	OK
49	Q3345-03MS	2ND-STREET-SOILM	MS	10/15/25 18:38		Jaswal	OK
50	Q3345-03MSD	2ND-STREET-SOILM	MSD	10/15/25 18:42		Jaswal	OK
51	Q3345-03A	2ND-STREET-SOILA	PS	10/15/25 18:46	0.1 ml of each M6008 AND M6017 IN 10ML SAMPLE.	Jaswal	OK
52	Q3345-05	M-R-SOIL	SAM	10/15/25 18:50		Jaswal	OK
53	Q3340-01	CONCRETE-1	SAM	10/15/25 18:54		Jaswal	OK
54	CCV05	CCV05	CCV	10/15/25 18:58		Jaswal	OK
55	CCB05	CCB05	CCB	10/15/25 19:02		Jaswal	OK
56	Q3340-02	CONCRETE-2	SAM	10/15/25 19:07		Jaswal	OK

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB137561

Review By	Janvi	Review On	10/17/2025 12:20:45 PM
Supervise By	jaswal	Supervise On	10/17/2025 1:18:42 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

57	Q3340-03	CONCRETE-3	SAM	10/15/25 19:11		Jaswal	OK
58	Q3341-01	C-1	SAM	10/15/25 19:15		Jaswal	OK
59	Q3341-02	C-2	SAM	10/15/25 19:19		Jaswal	OK
60	Q3341-03	C-3	SAM	10/15/25 19:23		Jaswal	OK
61	Q3342-01	CONC-ROLLOFF-WC	SAM	10/15/25 19:27		Jaswal	OK
62	Q3343-01	SOIL-ROLLOFF-WC-	SAM	10/15/25 19:32		Jaswal	OK
63	Q3337-02	LAYDOWN-YARD-1	SAM	10/15/25 19:36		Jaswal	OK
64	Q3337-04	LAYDOWN-YARD-2	SAM	10/15/25 19:40		Jaswal	OK
65	CCV06	CCV06	CCV	10/15/25 19:44		Jaswal	OK
66	CCB06	CCB06	CCB	10/15/25 19:48		Jaswal	OK

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

Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB137573

Review By	Review On
Supervise By	Supervise On

STD. NAME	STD REF.#
ICAL Standard	
ICV Standard	
CCV Standard	
ICSA Standard	
CRI Standard	
LCS Standard	
Chk Standard	

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	S0	S0	CAL1	10/16/25 11:08		Jaswal	OK
2	S1	S1	CAL2	10/16/25 11:13		Jaswal	OK
3	S2	S2	CAL3	10/16/25 11:17		Jaswal	OK
4	S3	S3	CAL4	10/16/25 11:22		Jaswal	OK
5	S4	S4	CAL5	10/16/25 11:25		Jaswal	OK
6	S5	S5	CAL6	10/16/25 11:30		Jaswal	OK
7	ICV01	ICV01	ICV	10/16/25 11:34		Jaswal	OK
8	LLICV01	LLICV01	LLICV	10/16/25 11:58		Jaswal	OK
9	ICB01	ICB01	ICB	10/16/25 12:02		Jaswal	OK
10	CRI01	CRI01	CRDL	10/16/25 12:09		Jaswal	OK
11	ICSA01	ICSA01	ICSA	10/16/25 12:17		Jaswal	OK
12	ICSAB01	ICSAB01	ICSAB	10/16/25 12:21		Jaswal	OK
13	ICSADL	ICSADL	ICSA	10/16/25 12:25		Jaswal	OK
14	ICSABDL	ICSABDL	ICSAB	10/16/25 12:29		Jaswal	OK
15	CCV01	CCV01	CCV	10/16/25 12:38		Jaswal	OK
16	CCB01	CCB01	CCB	10/16/25 12:42		Jaswal	OK
17	LR-2	LR-2	HIGH STD	10/16/25 12:51		Jaswal	OK
18	LR-3	LR-3	HIGH STD	10/16/25 12:55		Jaswal	OK

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Review By	Review On
Supervise By	Supervise On

STD. NAME	STD REF.#
ICAL Standard	
ICV Standard	
CCV Standard	
ICSA Standard	
CRI Standard	
LCS Standard	
Chk Standard	

19	LR-1	LR-1	HIGH STD	10/16/25 13:00		Jaswal	OK
20	Q2893-01	LOD-MDL-SOIL-01-Q	SAM	10/16/25 13:04		Jaswal	OK
21	Q2893-16	LLOQ-SOIL-QT3-202	SAM	10/16/25 13:13		Jaswal	OK
22	Q2893-07	LOD-MDL-WATER-01	SAM	10/16/25 13:17		Jaswal	OK
23	Q2893-08	LOQ-WATER-02-QT3	SAM	10/16/25 13:22		Jaswal	OK
24	Q2893-17	LLOQ-WATER-QT3-2	SAM	10/16/25 13:26		Jaswal	OK
25	Q2893-10	LOD-MDL-WATER-04	SAM	10/16/25 13:30		Jaswal	OK
26	CCV02	CCV02	CCV	10/16/25 13:45		Jaswal	OK
27	CCB02	CCB02	CCB	10/16/25 13:49		Jaswal	OK
28	Q2893-02	LOQ-SOIL-02-QT3-20	SAM	10/16/25 13:59		Jaswal	OK
29	Q2893-11	LOQ-WATER-05-QT3	SAM	10/16/25 14:07		Jaswal	OK
30	PB169558BL	PB169558BL	MB	10/16/25 14:12		Jaswal	OK
31	PB169558BS	PB169558BS	LCS	10/16/25 14:16		Jaswal	OK
32	PB169557BL	PB169557BL	MB	10/16/25 14:20		Jaswal	OK
33	PB169557BS	PB169557BS	LCS	10/16/25 14:24		Jaswal	OK
34	PB169559BL	PB169559BL	MB	10/16/25 14:28		Jaswal	OK
35	PB169559BS	PB169559BS	LCS	10/16/25 14:40		Jaswal	OK
36	CCV03	CCV03	CCV	10/16/25 14:45		Jaswal	OK
37	CCB03	CCB03	CCB	10/16/25 14:49		Jaswal	OK
38	PB170107BL	PB170107BL	MB	10/16/25 14:55		Jaswal	OK

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STD. NAME	STD REF.#
ICAL Standard	
ICV Standard	
CCV Standard	
ICSA Standard	
CRI Standard	
LCS Standard	
Chk Standard	

39	PB170107BS	PB170107BS	LCS	10/16/25 14:59		Jaswal	OK
40	PB170112BL	PB170112BL	MB	10/16/25 15:03		Jaswal	OK
41	PB170112BS	PB170112BS	LCS	10/16/25 15:08		Jaswal	OK
42	PB170081TB	PB170081TB	MB	10/16/25 15:12	Cr recovery fail	Jaswal	Not Ok
43	Q3340-05	CONCRETE-1	SAM	10/16/25 15:16		Jaswal	OK
44	Q3340-06	CONCRETE-2	SAM	10/16/25 15:21		Jaswal	OK
45	Q3340-07	CONCRETE-3	SAM	10/16/25 15:25		Jaswal	OK
46	Q3342-02	CONC-ROLLOFF-WC	SAM	10/16/25 15:29		Jaswal	OK
47	Q3343-04	SOIL-ROLLOFF-WC-	SAM	10/16/25 15:34		Jaswal	OK
48	CCV04	CCV04	CCV	10/16/25 15:38		Jaswal	OK
49	CCB04	CCB04	CCB	10/16/25 15:43		Jaswal	OK
50	Q3345-02	TANK-FARM-SOIL	SAM	10/16/25 15:47		Jaswal	OK
51	Q3345-04	2ND-STREET-SOIL	SAM	10/16/25 15:52		Jaswal	OK
52	Q3345-06	M-R-SOIL	SAM	10/16/25 15:56		Jaswal	OK
53	Q3346-01	Zeltmann Power Plant	SAM	10/16/25 16:01		Jaswal	OK
54	Q3348-04	WCS-TP1	SAM	10/16/25 16:05		Jaswal	OK
55	Q3348-08	WCS-TP2	SAM	10/16/25 16:10		Jaswal	OK
56	Q3348-08DUP	WCS-TP2DUP	DUP	10/16/25 16:14		Jaswal	OK
57	Q3348-08L	WCS-TP2L	SD	10/16/25 16:18		Jaswal	OK
58	Q3348-08MS	WCS-TP2MS	MS	10/16/25 16:23		Jaswal	OK

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Supervise By	Supervise On

STD. NAME	STD REF.#
ICAL Standard	
ICV Standard	
CCV Standard	
ICSA Standard	
CRI Standard	
LCS Standard	
Chk Standard	

59	Q3348-08MSD	WCS-TP2MSD	MSD	10/16/25 16:27		Jaswal	OK
60	CCV05	CCV05	CCV	10/16/25 16:31		Jaswal	OK
61	CCB05	CCB05	CCB	10/16/25 16:35		Jaswal	OK
62	Q3356-01	AUD-25-0169-AUD-25	SAM	10/16/25 16:44		Jaswal	OK
63	Q3356-01DUP	AUD-25-0169-AUD-25	DUP	10/16/25 16:48		Jaswal	OK
64	Q3348-08A	WCS-TP2A	PS	10/16/25 16:53		Jaswal	OK
65	Q3356-01L	AUD-25-0169-AUD-25	SD	10/16/25 16:57		Jaswal	OK
66	Q3356-01MS	AUD-25-0169-AUD-25	MS	10/16/25 17:01		Jaswal	OK
67	Q3356-01MSD	AUD-25-0169-AUD-25	MSD	10/16/25 17:05		Jaswal	OK
68	PB170130BL	PB170130BL	MB	10/16/25 17:18		Jaswal	OK
69	PB170130BS	PB170130BS	LCS	10/16/25 17:22		Jaswal	OK
70	Q3355-01	EO-03-101525	SAM	10/16/25 17:26		Jaswal	OK
71	Q3356-01A	AUD-25-0169-AUD-25	PS	10/16/25 17:30		Jaswal	OK
72	CCV06	CCV06	CCV	10/16/25 17:49		Jaswal	OK
73	CCB06	CCB06	CCB	10/16/25 17:53		Jaswal	OK
74	PB170129BL	PB170129BL	MB	10/16/25 17:57		Jaswal	OK
75	Q3348-01	WCS-TP1	SAM	10/16/25 18:05		Jaswal	OK
76	Q3348-01DUP	WCS-TP1DUP	DUP	10/16/25 18:09		Jaswal	OK
77	Q3348-01L	WCS-TP1L	SD	10/16/25 18:13		Jaswal	OK
78	Q3348-01MS	WCS-TP1MS	MS	10/16/25 18:18		Jaswal	OK

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Review By	Review On
Supervise By	Supervise On

STD. NAME	STD REF.#
ICAL Standard	
ICV Standard	
CCV Standard	
ICSA Standard	
CRI Standard	
LCS Standard	
Chk Standard	

79	Q3348-01MSD	WCS-TP1MSD	MSD	10/16/25 18:22		Jaswal	OK
80	Q3348-01A	WCS-TP1A	PS	10/16/25 18:25		Jaswal	OK
81	Q3348-05	WCS-TP2	SAM	10/16/25 18:29		Jaswal	OK
82	PB170129BS	PB170129BS	LCS	10/16/25 18:34		Jaswal	OK
83	Q3346-01DL	Zeltmann Power Plant	SAM	10/16/25 18:38	Not use	Jaswal	Not Ok
84	CCV07	CCV07	CCV	10/16/25 18:42		Jaswal	OK
85	CCB07	CCB07	CCB	10/16/25 18:46		Jaswal	OK
86	Q3354-01	HT1403	SAM	10/16/25 18:51		Jaswal	OK
87	Q3352-01	TP-3	SAM	10/16/25 18:55		Jaswal	OK
88	PB170132BL	PB170132BL	MB	10/16/25 18:59		Jaswal	OK
89	PB170132BS	PB170132BS	LCS	10/16/25 19:03		Jaswal	OK
90	Q3349-01	PURS Station	SAM	10/16/25 19:07		Jaswal	OK
91	Q3352-04	TP-3	SAM	10/16/25 19:11		Jaswal	OK
92	Q3354-02	HT1403	SAM	10/16/25 19:16		Jaswal	OK
93	Q3357-02	DRUM-2	SAM	10/16/25 19:20		Jaswal	OK
94	Q3357-03	DRUM-3	SAM	10/16/25 19:24		Jaswal	OK
95	Q3357-04	DRUM-4	SAM	10/16/25 19:29		Jaswal	OK
96	CCV08	CCV08	CCV	10/16/25 19:33		Jaswal	OK
97	CCB08	CCB08	CCB	10/16/25 19:37		Jaswal	OK

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STD. NAME	STD REF.#
ICAL Standard	
ICV Standard	
CCV Standard	
ICSA Standard	
CRI Standard	
LCS Standard	
Chk Standard	

98	Q3357-04DUP	DRUM-4DUP	DUP	10/16/25 19:41	CCV FAIL FOR Al, Ba,Mg,Na	Jaswal	Not Ok
99	Q3357-04L	DRUM-4L	SD	10/16/25 19:46	CCV FAIL FOR Al, Ba,Mg,Na	Jaswal	Not Ok
100	Q3357-04MS	DRUM-4MS	MS	10/16/25 19:50	CCV FAIL FOR Al, Ba,Mg,Na	Jaswal	Not Ok
101	Q3357-04MSD	DRUM-4MSD	MSD	10/16/25 19:54	CCV FAIL FOR Al, Ba,Mg,Na	Jaswal	Not Ok
102	Q3357-04A	DRUM-4A	PS	10/16/25 19:58	CCV FAIL FOR Al, Ba,Mg,Na	Jaswal	Not Ok
103	PB170116TB	PB170116TB	MB	10/16/25 20:03	CCV FAIL FOR Al, Ba,Mg,Na	Jaswal	Not Ok
104	CCV09	CCV09	CCV	10/16/25 20:07	CCV FAIL FOR Al, Ba,Mg,Na	Jaswal	OK
105	CCB09	CCB09	CCB	10/16/25 20:11		Jaswal	OK

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Prep Standard - Chemical Standard Summary

Order ID : Q3341

Test : Mercury,Metals ICP-Group1

Prepbatch ID : PB170097,PB170107,

Sequence ID/Qc Batch ID: LB137528,LB137561,LB137561,LB137561,LB137561,LB137573,

Standard ID :
MP86978,MP87031,MP87032,MP87033,MP87034,MP87035,MP87036,MP87038,MP87040,MP87042,MP87043,MP87044,MP87045,MP87046,MP87049,MP87072,MP87149,MP87404,MP87405,MP87561,MP87569,MP87572,MP87574,MP87577,MP87583,MP87584,MP87585,MP87586,MP87587,MP87588,MP87589,MP87590,MP87591,MP87592,MP87593,MP87594,MP87595,MP87596,MP87598,

Chemical ID :
M4916,M5062,M5467,M5581,M5582,M5658,M5748,M5751,M5798,M5799,M5800,M5801,M5814,M5817,M5820,M5882,M5884,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,M6161,M6162,M6163,M6164,M6165,M6170,M6171,M6174,M6176,M6177,M6178,M6179,M6182,M6184,M6187,M6196,M6200,M6201,M6209,W3112,

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
169	1:1HNO3	MP86978	08/28/2025	11/27/2025	Sagar Kanani	None	None	Sarabjit Jaswal 08/28/2025

FROM 1250.00000ml of M6162 + 1250.00000ml of W3112 = Final Quantity: 2500.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
902	ICP AES CAL BLK (SO/ICB/CCB)	MP87031	09/02/2025	10/17/2025	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

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
907	ICP AES STD S (S5)	MP87032	09/02/2025	10/17/2025	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

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
910	ICP AES STD S4	MP87033	09/02/2025	10/17/2025	Sarabjit Jaswal	None	None	Janvi Patel 09/04/2025

FROM 50.00000ml of MP87031 + 50.00000ml of MP87032 = Final Quantity: 100.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
909	ICP AES STD S3	MP87034	09/02/2025	10/17/2025	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

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3913	ICP AES STD S2	MP87035	09/02/2025	10/17/2025	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

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
2950	ICP AES S1/CRI STOCK STD	MP87036	09/02/2025	10/17/2025	Sarabjit Jaswal	None	METALS_PIPETTE_3 (A)	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 + 98.00000ml of MP87031 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
2951	ICP AES S1/CRI WORK STD	MP87038	09/02/2025	10/17/2025	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

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
904	ICP AES ICSA SOLN	MP87040	09/02/2025	10/17/2025	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

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
911	ICP AES CCV SOLN	MP87042	09/02/2025	10/17/2025	Sarabjit Jaswal	None	None	Janvi Patel 09/04/2025

FROM 50.00000ml of MP87031 + 50.00000ml of MP87032 = Final Quantity: 100.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
919	ICP AES INTERNAL STD	MP87043	09/02/2025	10/17/2025	Sarabjit Jaswal	None	None	Janvi Patel 09/04/2025

FROM 1.00000ml of M6179 + 10.00000ml of M5985 + 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
903	ICP AES RINSE SOLN	MP87044	09/02/2025	10/17/2025	Sarabjit Jaswal	None	None	Janvi Patel 09/04/2025

FROM 200.00000ml of M6187 + 9800.00000ml of W3112 = Final Quantity: 10000.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
4225	LR-1	MP87045	09/02/2025	10/17/2025	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

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
4226	LR-2	MP87046	09/02/2025	10/17/2025	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

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
4227	LR-3	MP87049	09/02/2025	10/17/2025	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

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
65	POTASSIUM PERMANGANATE SOLUTION 5 %	MP87072	09/04/2025	03/04/2026	Mohan Bera	METALS_SCALE_3 (M SC-3)	None	Sarabjit Jaswal 09/04/2025

FROM 100.00000gram of M4916 + 2000.00000ml of W3112 = Final Quantity: 2000.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
67	SODIUM CHLORIDE - HYDROXYL- CHLORIDE SOLUTION	MP87149	09/09/2025	02/03/2026	Mohan Bera	METALS_SCALE_2 (M SC-2)	None	Sarabjit Jaswal 09/10/2025

FROM 2000.00000ml of W3112 + 240.00000gram of M5884 + 240.00000ml of M6196 = Final Quantity: 2000.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
4163	NEW ICV-060925	MP87404	09/22/2025	10/21/2025	Janvi Patel	None	METALS_PIPETTE_1 (ICP A)	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	10/21/2025	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

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
871	MERCURY INTERMEDIATE B 250PPB WORKING STD.	MP87561	10/14/2025	10/15/2025	Mohan Bera	None	METALS_PIPETTE_5 (HG A)	Sarabjit Jaswal 10/16/2025

FROM 1.00000ml of M6187 + 2.50000ml of M5062 + 96.50000ml of W3112 = 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
1346	Hg ICV SOLUTION	MP87569	10/14/2025	10/15/2025	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 10/16/2025

FROM 2.50000ml of M6161 + 2.50000ml of M6187 + 245.00000ml of W3112 = Final Quantity: 250.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1358	CCV (Hg 5.0 PPB SOLUTION)	MP87572	10/14/2025	10/15/2025	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 10/16/2025

FROM 485.00000ml of W3112 + 5.00000ml of M6187 + 10.00000ml of MP87561 = 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
1349	CRA/CRI (Hg 0.2 PPB SOLUTION)	MP87574	10/14/2025	10/15/2025	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 10/16/2025

FROM 2.50000ml of M6187 + 247.30000ml of W3112 + 0.20000ml of MP87561 = Final Quantity: 250.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
887	AQUA REGIA FOR HG ON 7471A	MP87577	10/14/2025	10/15/2025	Mohan Bera	None	None	Sarabjit Jaswal 10/16/2025

FROM 150.00000ml of M6151 + 50.00000ml of M6187 = Final Quantity: 200.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
871	MERCURY INTERMEDIATE B 250PPB WORKING STD.	MP87583	10/15/2025	10/16/2025	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 10/16/2025

FROM 1.00000ml of M6187 + 2.50000ml of M5062 + 96.50000ml of W3112 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1340	Hg 0.00 PPB STD	MP87584	10/15/2025	10/16/2025	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 10/16/2025

FROM 2.50000ml of M6187 + 247.50000ml of W3112 = Final Quantity: 250.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
2750	Hg 0.05ppb	MP87585	10/15/2025	10/16/2025	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 10/16/2025

FROM 2.50000ml of M6187 + 247.45000ml of W3112 + 0.05000ml of MP87583 = Final Quantity: 250.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1341	Hg 0.2 PPB STD	MP87586	10/15/2025	10/16/2025	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 10/16/2025

FROM 2.50000ml of M6187 + 247.30000ml of W3112 + 0.20000ml of MP87583 = 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
1342	Hg 2.5 PPB STD	MP87587	10/15/2025	10/16/2025	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 10/16/2025

FROM 2.50000ml of M6187 + 245.00000ml of W3112 + 2.50000ml of MP87583 = Final Quantity: 250.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1343	Hg 5.0 PPB STD	MP87588	10/15/2025	10/16/2025	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 10/16/2025

FROM 2.50000ml of M6187 + 242.50000ml of W3112 + 5.00000ml of MP87583 = 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
1344	Hg 7.5 PPB STD	MP87589	10/15/2025	10/16/2025	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 10/16/2025

FROM 2.50000ml of M6187 + 240.00000ml of W3112 + 7.50000ml of MP87583 = Final Quantity: 250.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1345	Hg 10.0 PPB STD	MP87590	10/15/2025	10/16/2025	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 10/16/2025

FROM 2.50000ml of M6187 + 237.50000ml of W3112 + 10.00000ml of MP87583 = Final Quantity: 250.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1346	Hg ICV SOLUTION	MP87591	10/15/2025	10/16/2025	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 10/16/2025

FROM 2.50000ml of M6161 + 2.50000ml of M6187 + 245.00000ml of W3112 = Final Quantity: 250.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1351	ICB (Hg 0.00 PPB SOLUTION)	MP87592	10/15/2025	10/16/2025	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 10/16/2025

FROM 2.50000ml of M6187 + 247.50000ml of W3112 = Final Quantity: 250.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1358	CCV (Hg 5.0 PPB SOLUTION)	MP87593	10/15/2025	10/16/2025	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 10/16/2025

FROM 485.00000ml of W3112 + 5.00000ml of M6187 + 10.00000ml of MP87583 = Final Quantity: 500.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1352	CCB (Hg 0.00 PPB SOLUTION)	MP87594	10/15/2025	10/16/2025	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 10/16/2025

FROM 2.50000ml of M6187 + 495.00000ml of W3112 = 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
1349	CRA/CRI (Hg 0.2 PPB SOLUTION)	MP87595	10/15/2025	10/16/2025	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 10/16/2025

FROM 2.50000ml of M6187 + 247.30000ml of W3112 + 0.20000ml of MP87583 = Final Quantity: 250.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1350	CHK STD (Hg 7.0 PPB SOLUTION)	MP87596	10/15/2025	10/16/2025	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 10/16/2025

FROM 2.50000ml of M6187 + 240.50000ml of W3112 + 7.00000ml of MP87583 = 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
68	STANNOUS CHLORIDE SOLUTION	MP87598	10/15/2025	10/16/2025	Mohan Bera	METALS_SCALE_3 (M SC-3)	None	Sarabjit Jaswal 10/16/2025

FROM 450.00000ml of W3112 + 50.00000gram of M5882 + 50.00000ml of M6200 = Final Quantity: 500.000 ml

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-3227-05 / Potassium Permanganate (2.5kg)	210800	03/31/2026	11/30/2022 / mohan	07/28/2021 / mohan	M4916

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	MSHG-10PPM / MERCURY HCl 125mL 10ug/mL	S2-HG709270	09/22/2026	05/28/2022 / mohan	01/27/2022 / mohan	M5062

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57058 / Cerium, 1000PPM, 100ML	020623	02/06/2026	03/06/2023 / bin	03/01/2023 / bin	M5467

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	26397-103 / PTFE BOILING STONES	W126678	03/20/2026	03/20/2025 /	06/12/2023 / jaswal	M5581

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	26397-103 / PTFE BOILING STONES	W126678	12/31/2025	06/17/2023 / Al-Terek	06/12/2023 / jaswal	M5582

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58024 / Chromium, Cr, 500 ml, 1000 PPM	060523	06/05/2026	08/28/2023 / jaswal	08/25/2023 / jaswal	M5658

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Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	/ Nickel (Ni) 1000PPM	091223	09/12/2026	01/02/2024 / bin	12/20/2023 / jaswal	M5748

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58029 / Cu, 1000 PPM, 500 ml	071723	07/17/2026	10/01/2024 / Jaswal	08/25/2023 / jaswal	M5751

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57004 / Be, 1000 PPM, 125 ml	102523	10/25/2026	02/09/2024 / bin	02/09/2024 / bin	M5798

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57050 / Sn, 1000 PPM, 125 ml	071123	07/11/2026	02/09/2024 / bin	02/09/2024 / bin	M5799

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57027 / CO, 1000 PPM, 125 ml	091923	09/19/2026	05/31/2024 / bin	02/09/2024 / bin	M5800

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57033 / As, 1000 PPM, 125 ml	111323	11/13/2026	02/09/2024 / bin	02/09/2024 / bin	M5801

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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 #
Seidler Chemical	BA-3980-01 / Stannous Chloride (cs/4x500g)	232820	08/31/2028	04/30/2024 / mohan	04/25/2024 / mohan	M5882

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-3624-05 / Sodium Chloride, Crystal (cs/4x2.5kg)	0000281938	07/06/2026	04/30/2024 / mohan	04/25/2024 / mohan	M5884

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
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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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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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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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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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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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	10/30/2025	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 #
EPA	ICV-5 / ICV (HG) STOCK SOLN	ICV 5 0415	12/31/2025	05/01/2025 / mohan	03/30/2024 / mohan	M6161

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9598-34 / Nitric Acid, Instra-Analyzed (cs/4x2.5L)	24H0162012	11/27/2025	05/27/2025 / Sagar	04/27/2025 / Sagar	M6162

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	QCP-CICV-1-125ML / EPA CLP ICP Verification Standard1	V2-MEB744107	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

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 #
Seidler Chemical	BA-2186-03 / Hydrogen Peroxide (cs/4x4L)	24D1961001	10/16/2025	06/25/2025 /	05/20/2025 / Sagar	M6170

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
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

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

CHEMICAL RECEIPT LOG BOOK

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

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 #
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

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Fax : 908 789 8922

CHEMICAL RECEIPT LOG BOOK

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

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	H330-500 / HYDROXYLAMINE HYDROCHLORIDE ACS 500G	243373	02/03/2026	09/04/2025 / mohan	08/04/2025 / mohan	M6196

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)	24D1562005	02/10/2026	09/11/2025 / Sagar	08/25/2025 / Sagar	M6200

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-MEB743480	10/15/2026	10/15/2025 /	07/20/2025 / janvi	M6201

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	V2-MEB752149	10/15/2026	10/15/2025 / Janvi	07/20/2025 / Janvi	M6209

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	DIW / DI Water	Daily Lab-Certified	07/03/2029	07/03/2024 / Iwona	07/03/2024 / Iwona	W3112

Certificate of Analysis

ThermoFisher SCIENTIFIC

M5882 M3

Certificate of Analysis

1 Reagent Lane
Fair Lawn, NJ 07410
201.796.7100 tel
201.796.1329 fax

Thermo Fisher Scientific's Quality System has been found to conform to Quality Management System Standard ISO9001:2015 by SAI Global Certificate Number CERT – 0120633

This is to certify that units of the lot number below were tested and found to comply with the specifications of the grade listed. Certain data have been supplied by third parties. Thermo Fisher Scientific expressly disclaims all warranties, expressed or implied, including the implied warranties of merchantability and fitness for a particular purpose. Products are for research use or further manufacturing. Not for direct administration to humans or animals. It is the responsibility of the final formulator and end user to determine suitability based upon the intended use of the end product. Products are tested to meet the analytical requirements of the noted grade. The following information is the actual analytical results obtained.

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

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

Harout Sahagian - Quality Control Supervisor - Fair Lawn

Note: The data listed is valid for all package sizes of this lot of this product, expressed as an extension of this catalog number listed above.
If there are any questions with this certificate, please call at (800) 227-6701.
*Based on suggested storage condition.

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Certified Reference Material CRM

M6032

R: 8/5/24

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CERTIFIED WEIGHT REPORT:

Part Number:	**57056**		**Lot #**		
Lot Number:	**010924**	**Solvent:**	24002546	Nitric Acid	
Description:	**Barium (Ba)**				
		2%	40.0 (mL)	Nitric Acid	
Expiration Date:	010927				
Recommended Storage:	Ambient (20 °C)				
Nominal Concentration (µg/mL):	**1000**				
NIST Test Number:	6UTB	5E-05	Balance Uncertainty		
Weight shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty		

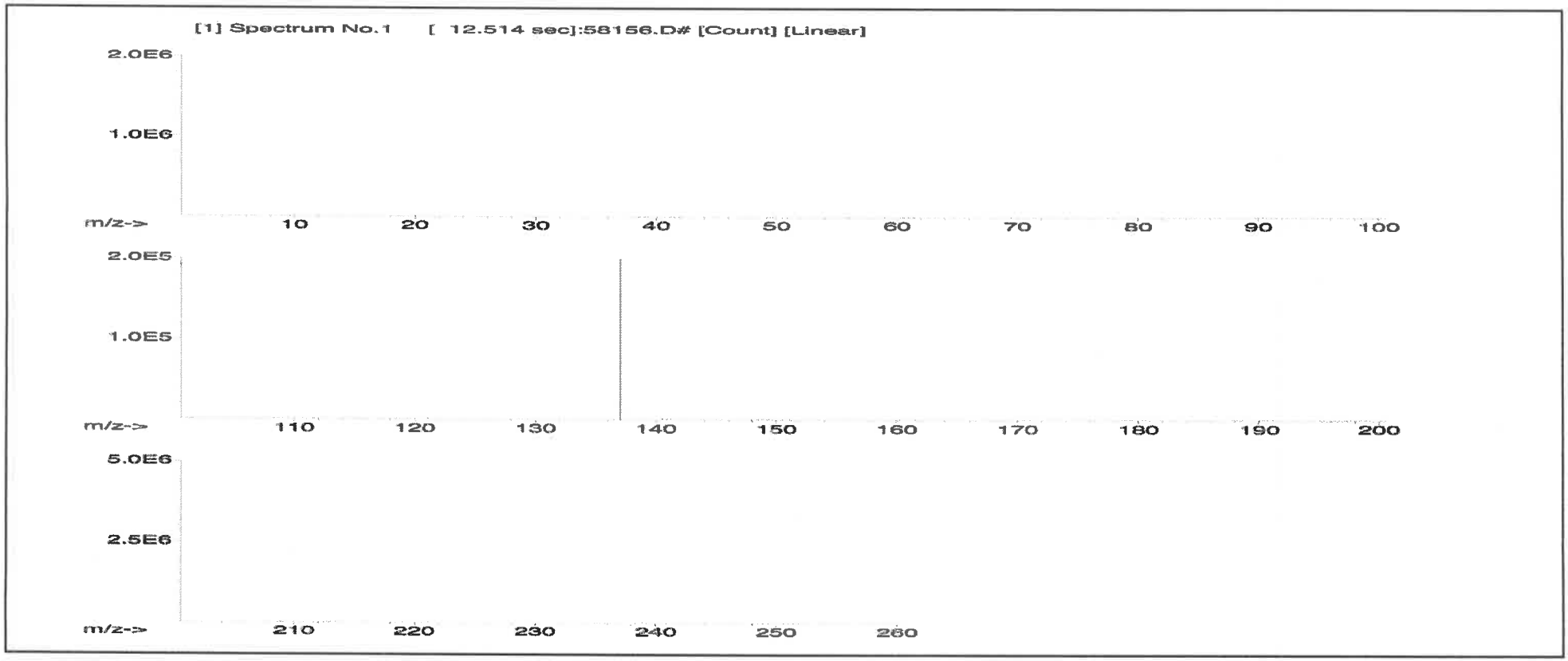
Giovanni Esposito

Formulated By:	Giovanni Esposito	010924

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).

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M6028

R 8/5/24

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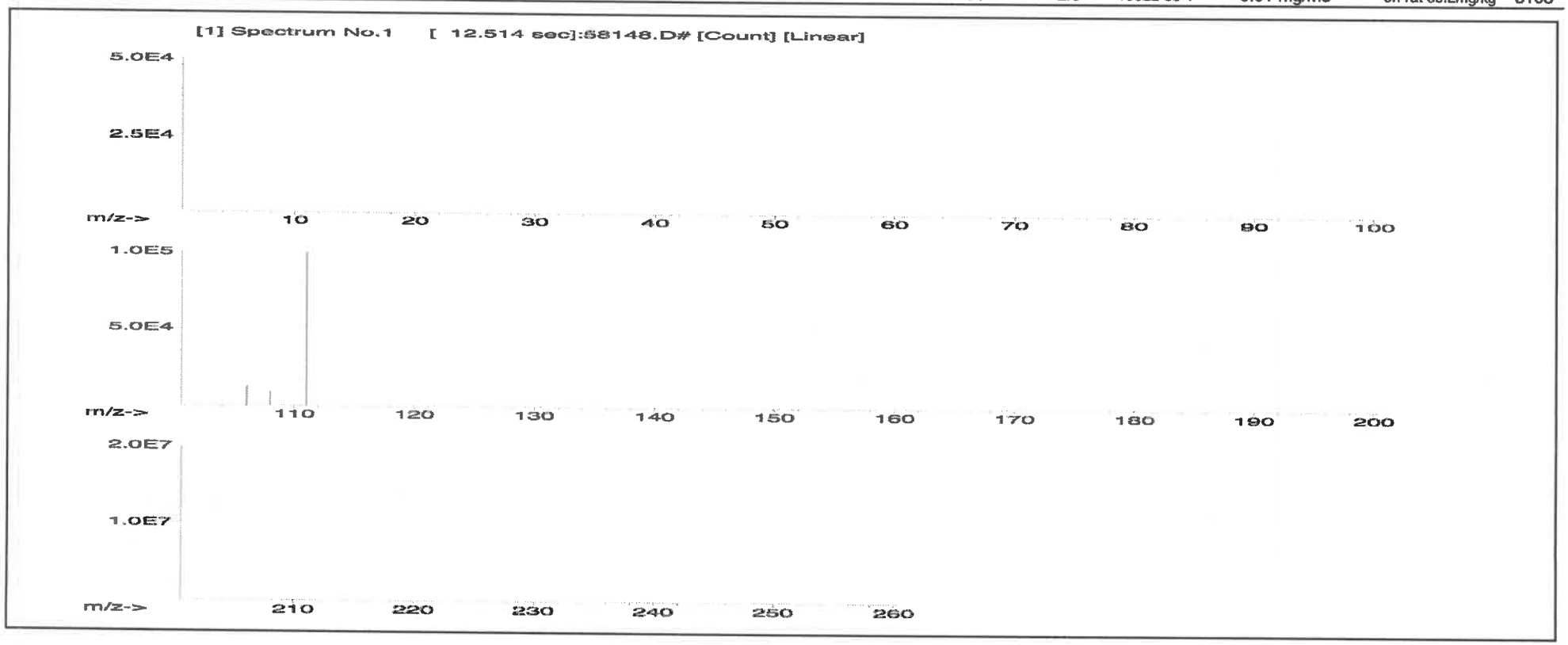
CERTIFIED WEIGHT REPORT:

Part Number:	**57048**		**Lot #**		
Lot Number:	**070124**	**Solvent:**	24002546	Nitric Acid	
Description:	**Cadmium (Cd)**	2%	40.0 (mL)	Nitric Acid	
Expiration Date:	070127				
Recommended Storage:	Ambient (20 °C)				
Nominal Concentration (µg/mL):	**1000**				
NIST Test Number:	6UTB	5E-05	Balance Uncertainty		
Weight shown below was diluted to (mL):	2000.07	0.100	Flask Uncertainty		

Aleah O'Brady		
Formulated By:	Aleah O'Brady	070124
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.

* 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

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

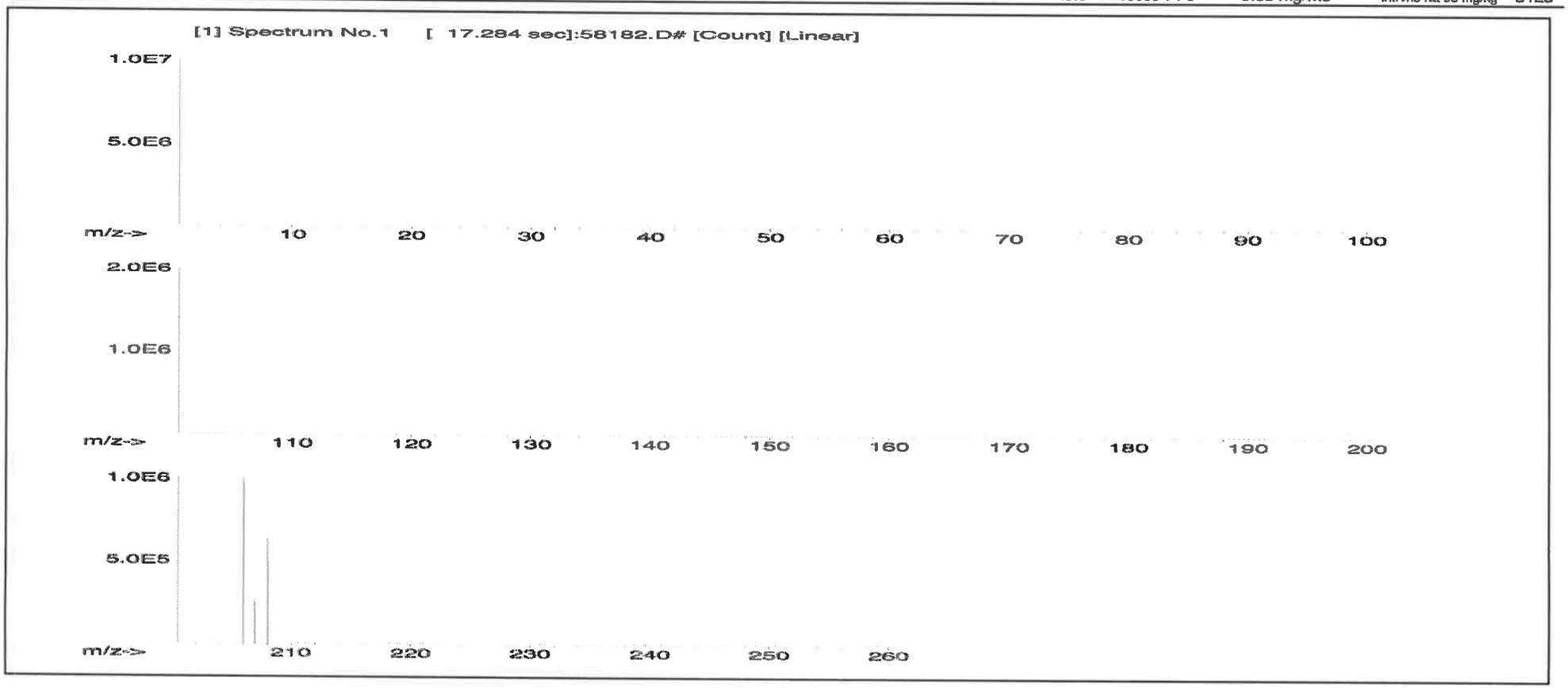
Weight shown below was diluted to (mL): 2000.02 0.058 Flask Uncertainty

		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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* 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).

ThermoFisher SCIENTIFIC

M4913-16

MB

Certificate of Analysis

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Thermo Fisher Scientific's Quality System has been found to conform to Quality Management System Standard ISO9001:2015 by SAI Global Certificate Number CERT – 0120632

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Catalog Number	P279	Quality Test / Release Date	01/12/2021
Lot Number	210306		
Description	POTASSIUM PERMANGANATE, A.C.S.		
Country of Origin	United States	Suggested Retest Date	Jan/2026

N/A			
Result Name	Units	Specifications	Test Value
APPEARANCE		REPORT	Dark purple to purple green crystals
ASSAY	%	>= 99	99.3
CHLORIDE & CHLORATE	%	<= 0.005	<0.005
IDENTIFICATION	PASS/FAIL	= PASS TEST	pass test
INSOLUBLE MATTER	%	<= 0.2	<0.2
MERCURY (Hg)	ppm	<= 0.05	<0.004
SULFATE (SO4)	%	<= 0.02	<0.02

Julian Burton

Julian Burton - Quality Control Manager – Fair Lawn

Note: The data listed is valid for all package sizes of this lot of this product, expressed as an extension of this catalog number listed above.
If there are any questions with this certificate, please call at (800) 227-6701.
*Based on suggested storage condition.

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Certificate of Analysis

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Christiansburg, VA 24073 USA
inorganicventures.com

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

M5062
M5063
M3

1.0 ACCREDITATION / REGISTRATION

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

ACCREDITED Testing Laboratory Certificate 883.01 ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Mass Spec Solution
Catalog Number:	MSHG-10PPM
Lot Number:	S2-HG709270
Matrix:	10% (v/v) HCl
Value / Analyte(s):	10 µg/mL ea: Mercury
Starting Material:	Hg metal
Starting Material Lot#:	1959
Starting Material Purity:	99.9994%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10.001 ± 0.053 µg/mL

Density: 1.020 g/mL (measured at 20 ± 4 °C)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
Hg	ICP Assay	3133	160921
Hg	EDTA	928	928
Hg	Calculated		See Sec. 4.2

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

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

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

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

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

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

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

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

u_{bb} = bottle to bottle homogeneity standard uncertainty

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

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

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

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

X_a = mean of Assay Method A with

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

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

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

u_{bb} = bottle to bottle homogeneity standard uncertainty

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

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

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

4.1 Thermometer Calibration

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

4.2 Balance Calibration

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

4.3 Glassware Calibration

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

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

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

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

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

6.0 INTENDED USE

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

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

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

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

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

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

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

Chemical Compatibility - Stable in HNO_3. Avoid basic media forming insoluble carbonate. The sulfide, basic carbonate, oxalate, phosphate, arsenite, arsenate and iodide are insoluble in water.

Stability - 2-100 ppb levels not stable in 1% HNO_3 / LDPE container, stable in 10% HNO_3 packaged in borosilicate glass. 1-100 ppm levels stable in 7% HNO_3 packaged in borosilicate glass. 1000-10,000 ppm solutions are chemically stable for years in 5-10% HNO_3 / LDPE container.

Hg Containing Samples (Preparation and Solution) - Metal (soluble in HNO_3); Oxide (Soluble in HNO_3); Ores and Organic based (The literature has more references to the preparation of Hg containing samples than any other element. Please consult the literature for your specific sample type, since such preparations are prone to error. Or e-mail our technical staff and we will contact you to discuss your particular sample preparation questions in further detail.).

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

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 202 amu	9 ppt	n/a	186W16O
ICP-OES 184.950 nm	0.03 / 0.005 µg/mL	1	
ICP-OES 194.227 nm	0.03 / 0.005 µg/mL	1	V
ICP-OES 253.652 nm	0.1 / 0.03 µg/mL	1	Ta, Co, Th ,Rh , Fe, U

8.0 HAZARDOUS INFORMATION

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

9.0 HOMOGENEITY

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

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

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

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

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

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

September 22, 2021

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

11.2 Lot Expiration Date

- September 22, 2026

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

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

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

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

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Prepared By:

Uyen Truong
Supervisor, Product Documentation

Certificate Approved By:

Michael Booth
Director, Quality Control

Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

M5467 R: 03/01/23 (LA)

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

CERTIFIED WEIGHT REPORT:

Part Number: 57058
Lot Number: 020623
Description: Cerium (Ce)

Expiration Date: 020626
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 1000
NIST Test Number: 6UTB

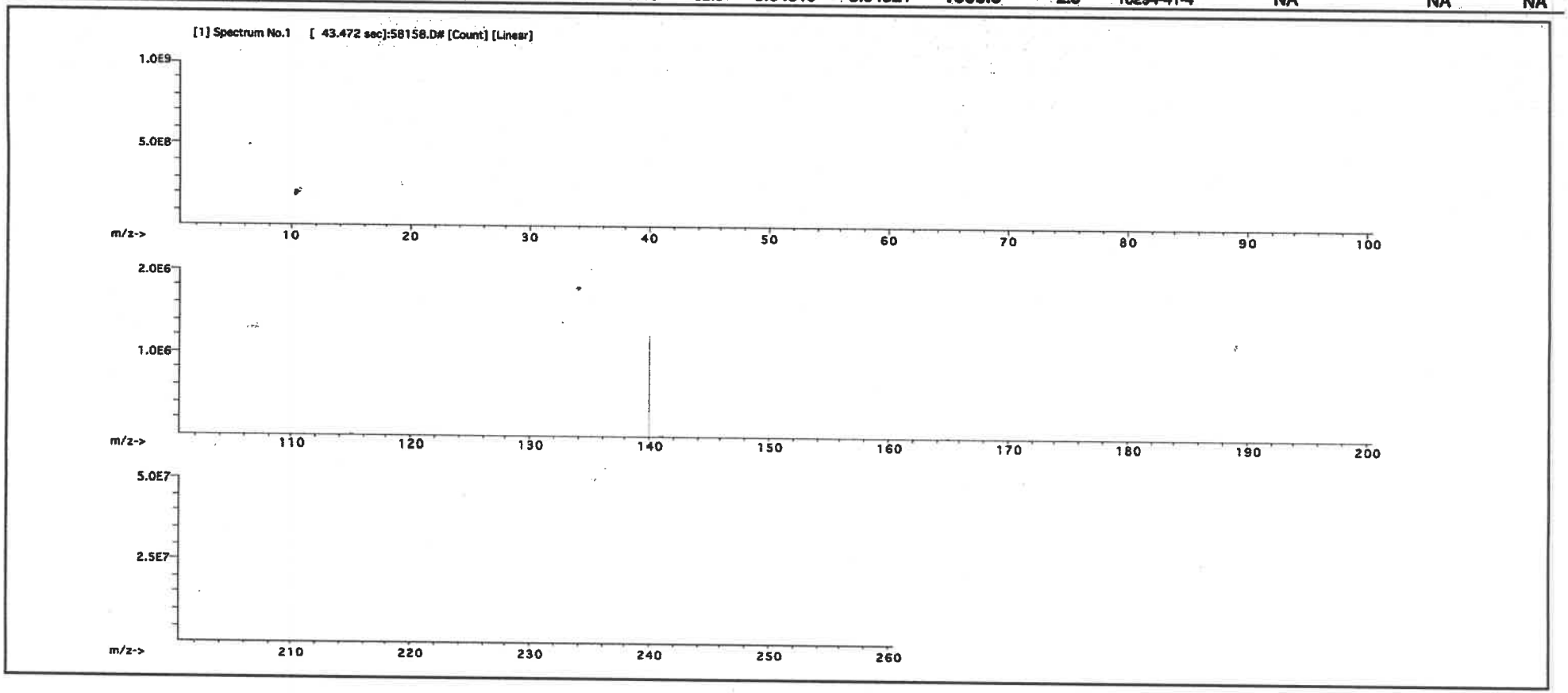
Weight shown below was diluted to (mL): 1000.12 0.058 Flask Uncertainty

		Lot #	
Solvent:	21110221	Nitric Acid	
2%	20.0 (mL)	Nitric Acid	

5E-05 Balance Uncertainty

Formulated By:	Lawrence Barry	020623
Reviewed By:	Pedro L. Rentas	020623

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Cerium nitrate hexahydrate (Ce)	IN146	Z512CEB1	1000	99.999	0.10	32.8	3.04919	3.04921	**1000.0**	**2.0**	10294-41-4	NA	NA	NA



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

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

(T)= Target analyte

Physical Characterization:

Certified by:

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

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

RD: 06/12/2023, M5581, M5582, M5583, M5584, M5585

JENSEN INERT PRODUCTS

MATERIAL CERTIFICATE OF COMPLIANCE

DATE: JUNE 12, 2023

CUSTOMER:	PCI SCIENTIFIC SUPPLY, INC
PURCHASE ORDER NO.	6054931
CATALOG NO.	BOI5021-450L
PRODUCT DESCRIPTION:	BOILING STONES, TFE, 454GMS
QUANTITY:	10 EACH
LOT NO.	W126678
SPECIFICATION (S):	Made from Virgin PTFE Resin

We certify that we have complied with the terms and conditions of the above Purchase Order and the Part Specifications in the manufacturing of the above product.

Laura Valencia

Laura Valencia
Quality Assurance Inspector

F:U:J:CF:PCISCI:COC-68118-BOI5021-061223

3773 NW 126th Avenue • Coral Springs, Florida 33065 • Fax (954) 344-2008 • 1-800 446-3781
Email: jensen@jenseninert.com Visit our Web Site at www.jenseninert.com

RD: 06/12/2023, M5581, M5582, M5583, M5584, M5585

JENSEN INERT PRODUCTS

MATERIAL CERTIFICATE OF COMPLIANCE

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PURCHASE ORDER NO.	6054931
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We certify that we have complied with the terms and conditions of the above Purchase Order and the Part Specifications in the manufacturing of the above product.

Laura Valencia

Laura Valencia
Quality Assurance Inspector

F:U:J:CF:PCISCI:COC-68118-BOI5021-061223

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Email: jensen@jenseninert.com Visit our Web Site at www.jenseninert.com

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www.absolutestandards.com

Certified Reference Material CRM

M5658 R! 8/25/23

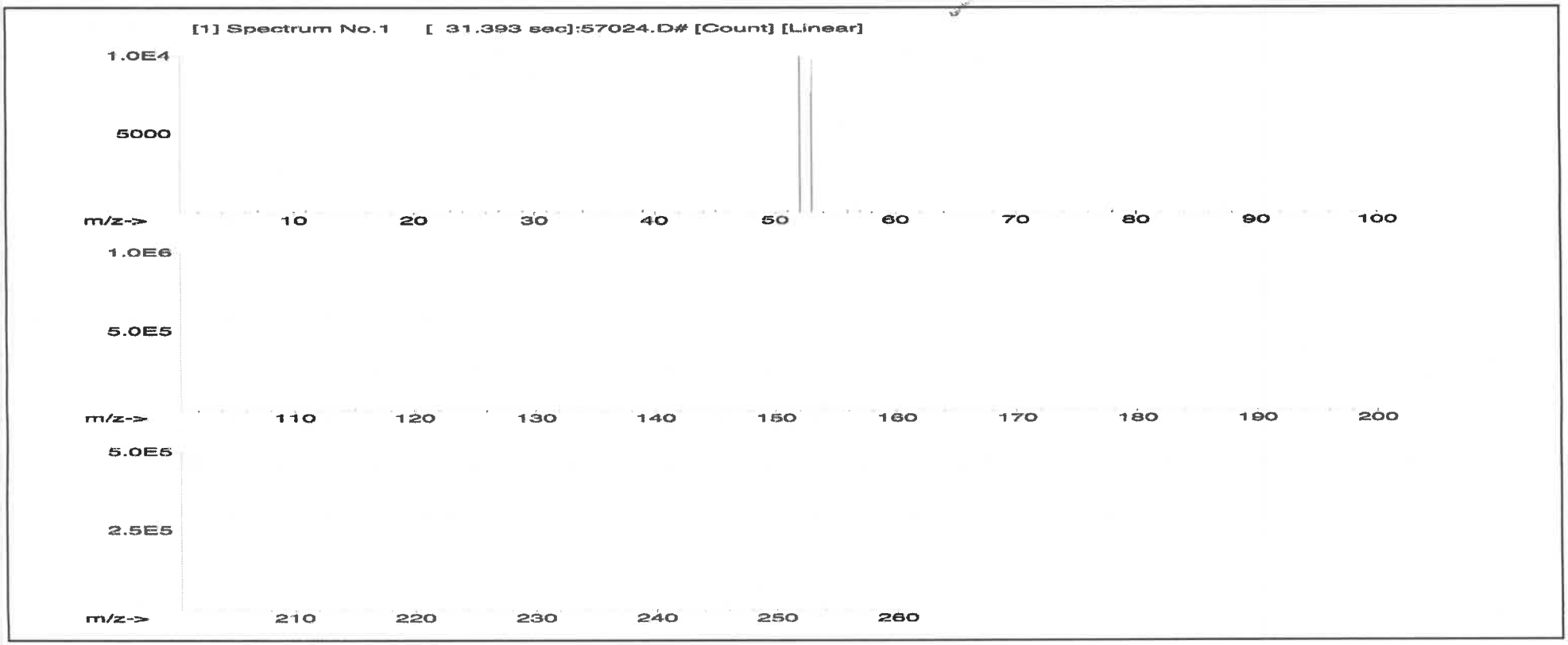
ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:	
Part Number:	**58024**	21110221	Nitric Acid	
Lot Number:	**060523**			
Description:	**Chromium (Cr)**			
		2.0%	40.0 (mL)	Nitric Acid
Expiration Date:	060526			
Recommended Storage:	Ambient (20 °C)			
Nominal Concentration (µg/mL):	**1000**			
NIST Test Number:	6UTB	5E-05	Balance Uncertainty	
Volume shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty	

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

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Chromium(III) nitrate nonahydrate (Cr)	58124	071122	0.1000	200.0	0.084	1000	10000.1	**1000.0**	**2.2**	7789-02-8	0.5 mg(Cr)/m3	orl-rat 3250 mg/kg	3112a



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

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

(T)= Target analyte

Physical Characterization:

Certified by:

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

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

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Certified Reference Material CRM

R: 12/20/23 M5748

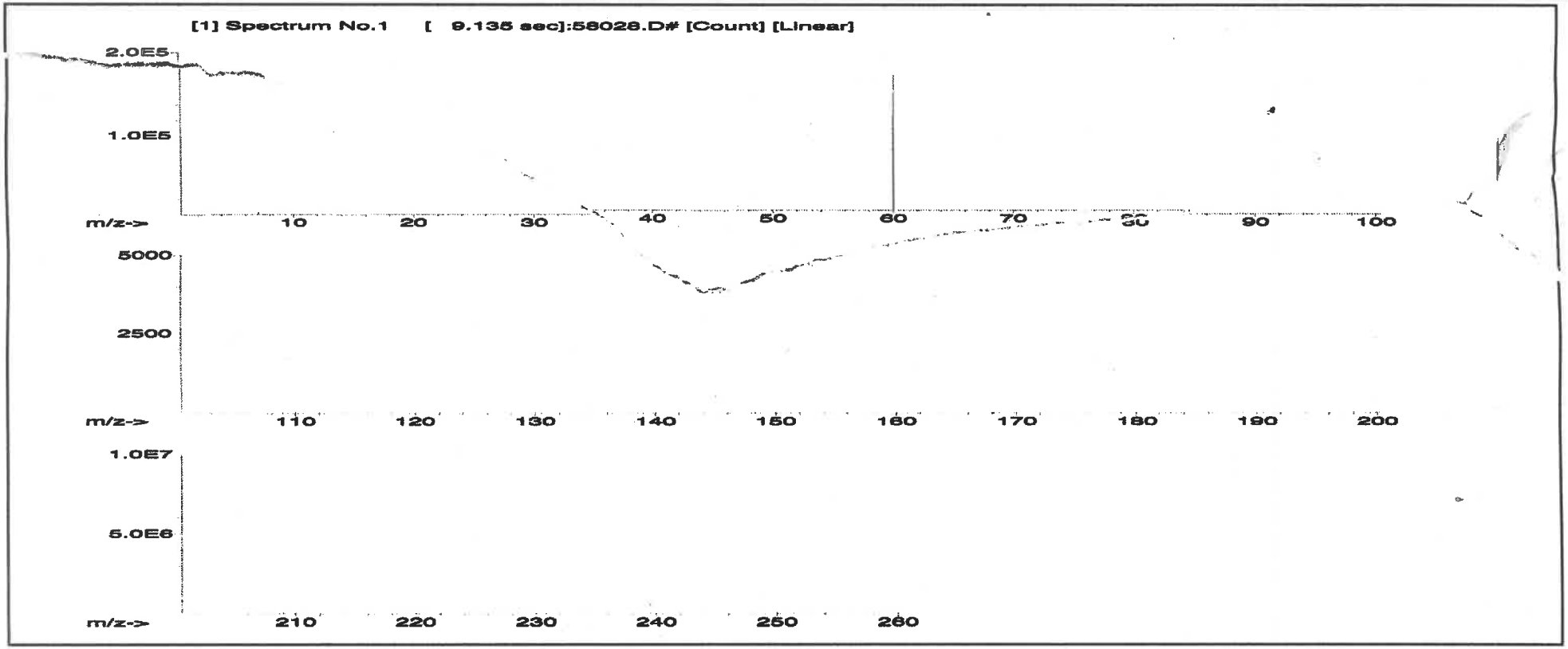
ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

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.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
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* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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Certified Reference Material CRM

R: 8/25/23 M5751

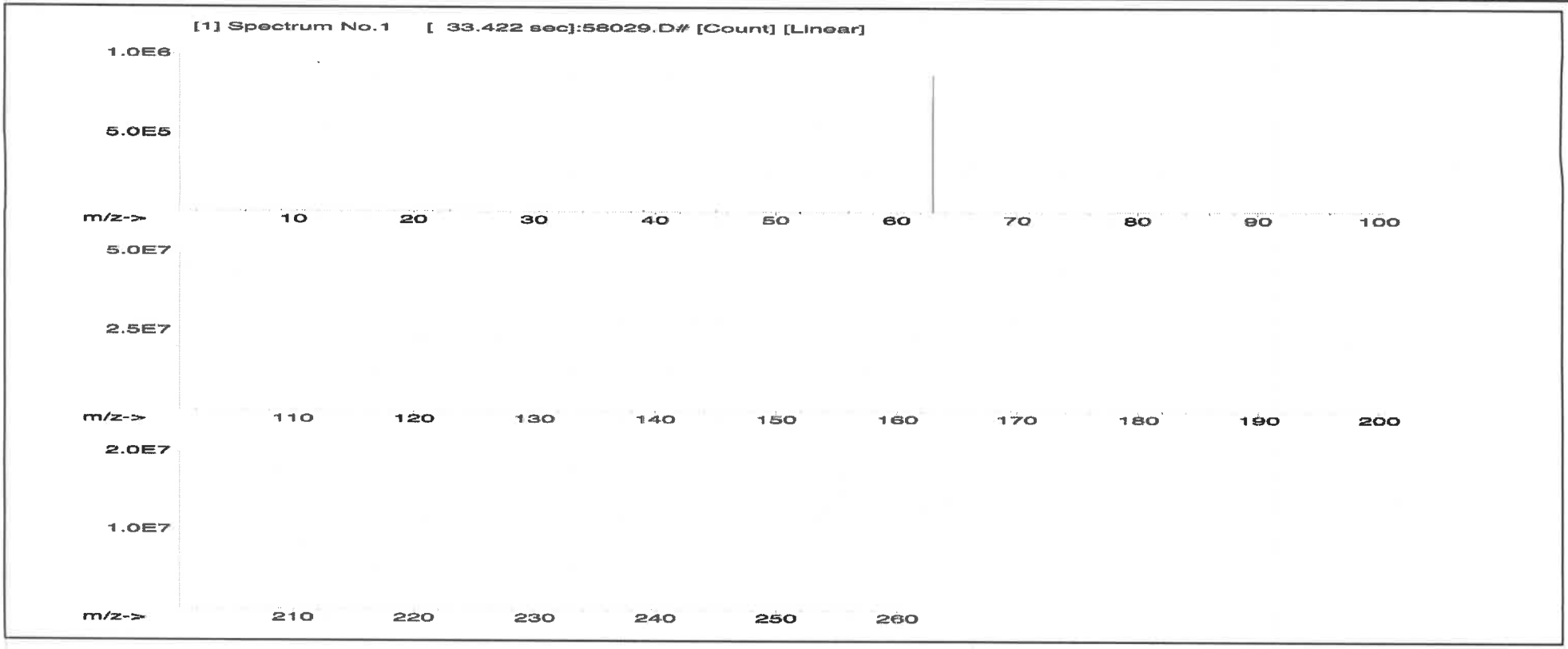
ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:	
Part Number:	**58029**	21110221	Nitric Acid	
Lot Number:	**071723**			
Description:	**Copper (Cu)**	2.0%	40.0 (mL)	Nitric Acid
Expiration Date:	071726			
Recommended Storage:	Ambient (20 °C)			
Nominal Concentration (µg/mL):	**1000**			
NIST Test Number:	6UTB	5E-05	Balance Uncertainty	
Volume shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty	

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

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Copper(II) nitrate trihydrate (Cu)	58129	022723	0.1000	200.0	0.084	1000	10000.5	**1000.0**	**2.2**	10031-43-3	1 mg/m3	orl-rat 794 mg/kg	3114



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

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

(T) = Target analyte

Physical Characterization:

Certified by:

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

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
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* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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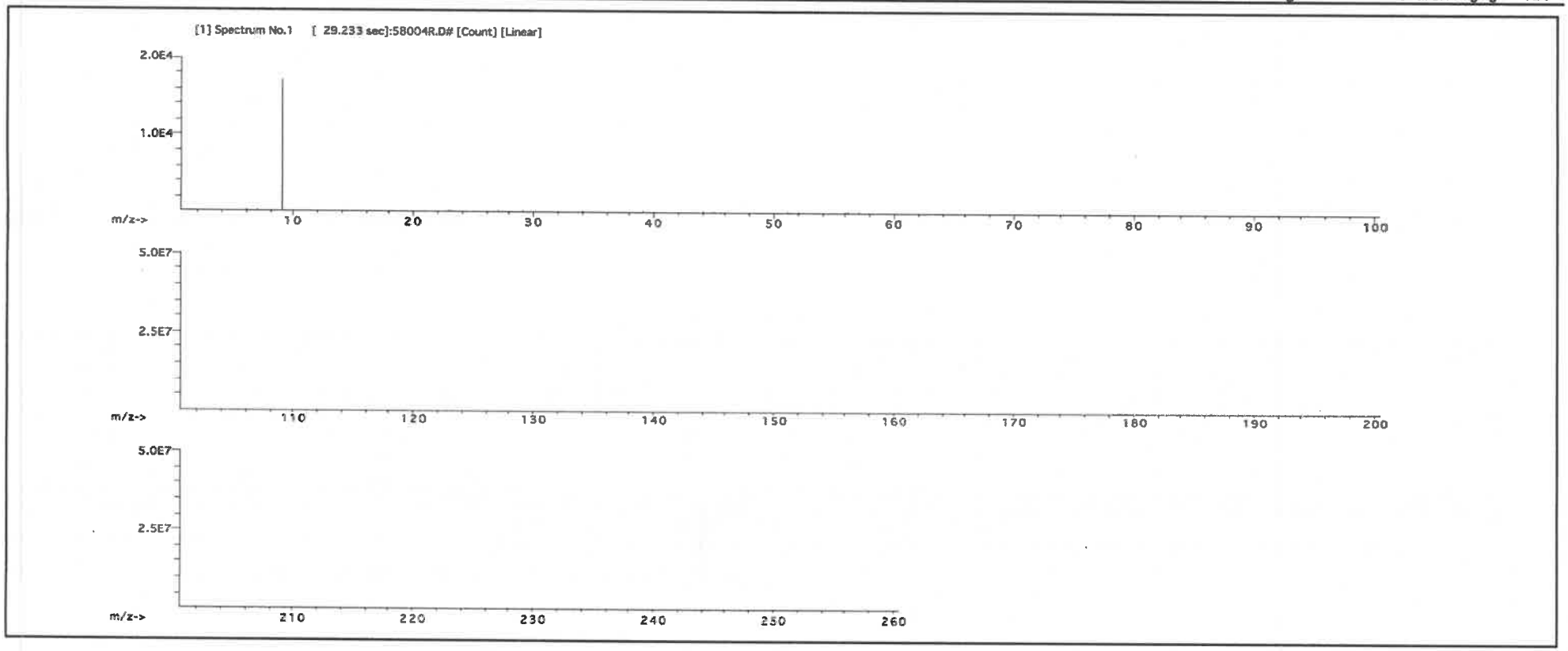
CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:	
Part Number:	**57004**	24002546	Nitric Acid	
Lot Number:	**102523**			
Description:	**Beryllium (Be)**	2.0%	40.0 (mL)	Nitric Acid
Expiration Date:	102526			
Recommended Storage:	Ambient (20 °C)			
Nominal Concentration (µg/mL):	**1000**			
NIST Test Number:	6UTB	5E-05	Balance Uncertainty	
Volume shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty	

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

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Beryllium nitrate (Be)	58104	091423	0.1000	200.0	0.084	1000	10001.5	**1000.0**	**2.2**	13597-99-4	0.2ug/m3	intrvns-rat 3.16mg/kg	NA



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

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

(T) = Target analyte

Physical Characterization:

Certified by:

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

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* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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CERTIFIED WEIGHT REPORT:

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

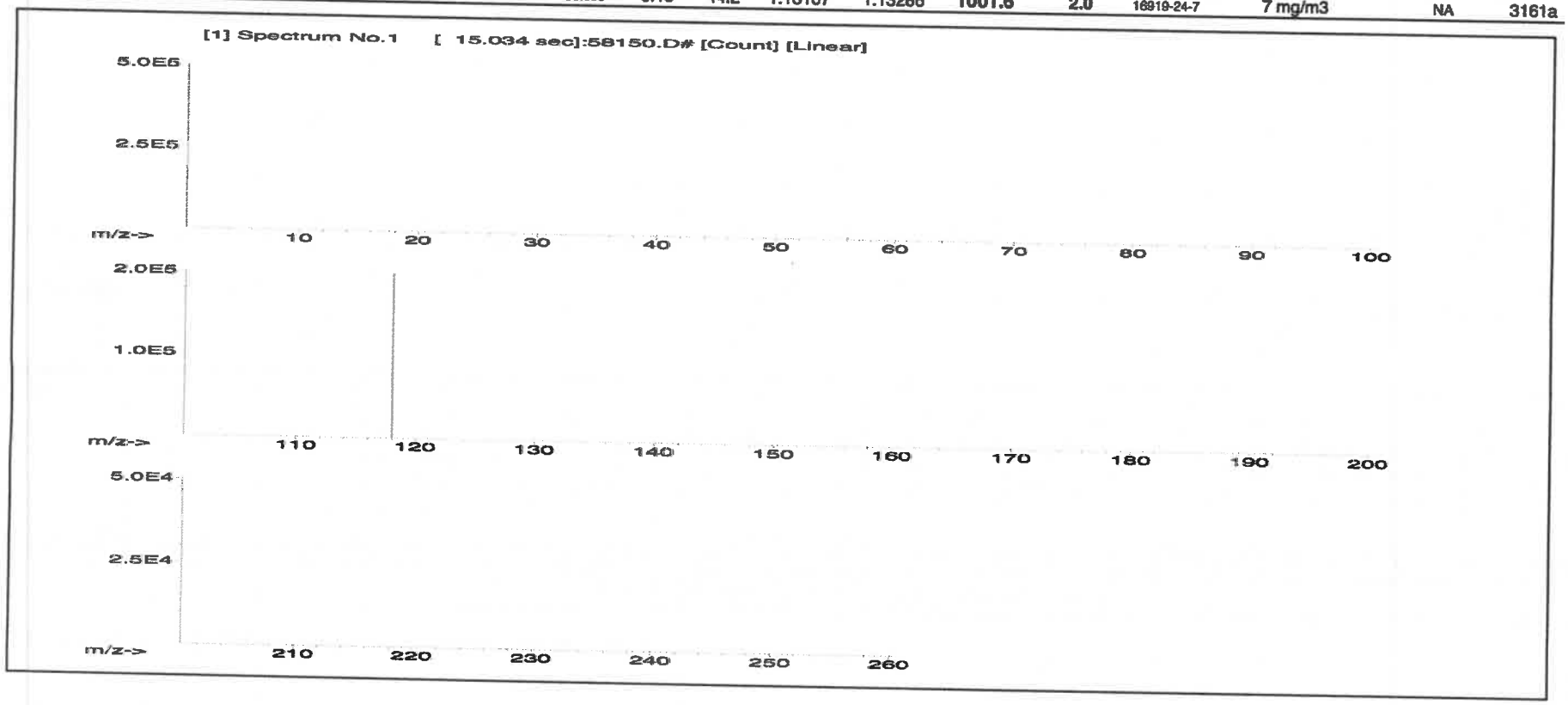
Expiration Date: 071126
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 1000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 499.93

	Lot #	
Solvents:	21110221	Nitric Acid
	22D0562008	Hydrochloric acid
2%	10.0	Nitric Acid
6%	30.0	Hydrochloric acid
	(mL)	

5E-05 Balance Uncertainty
0.058 Flask Uncertainty

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

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Ammonium hexafluorostannate(IV) (Sn)	IN010	SND042023A1	1000	99.999	0.10	44.2	1.13107	1.13286	**1001.6**	**2.0**	16919-24-7	7 mg/m3	NA	3161a



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

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

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<500	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	T	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

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

Certified by:

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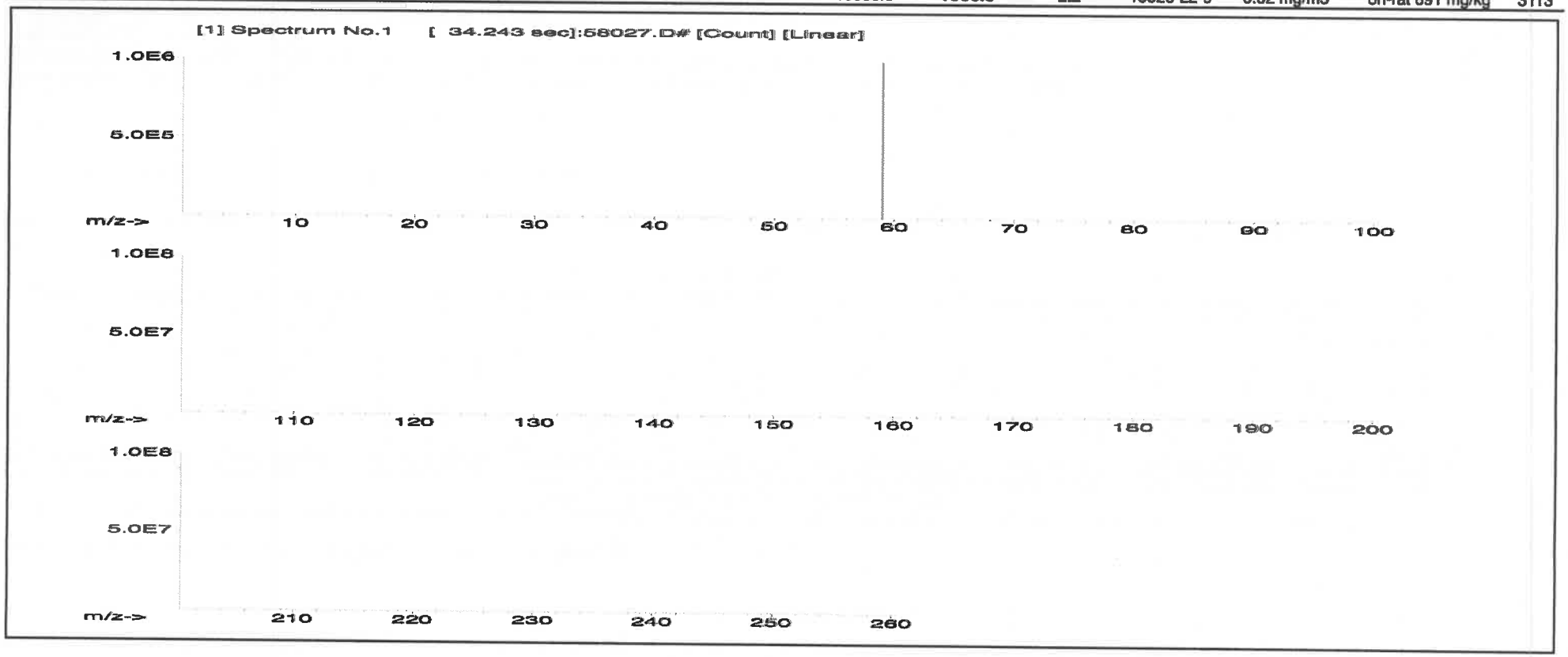
CERTIFIED WEIGHT REPORT:

		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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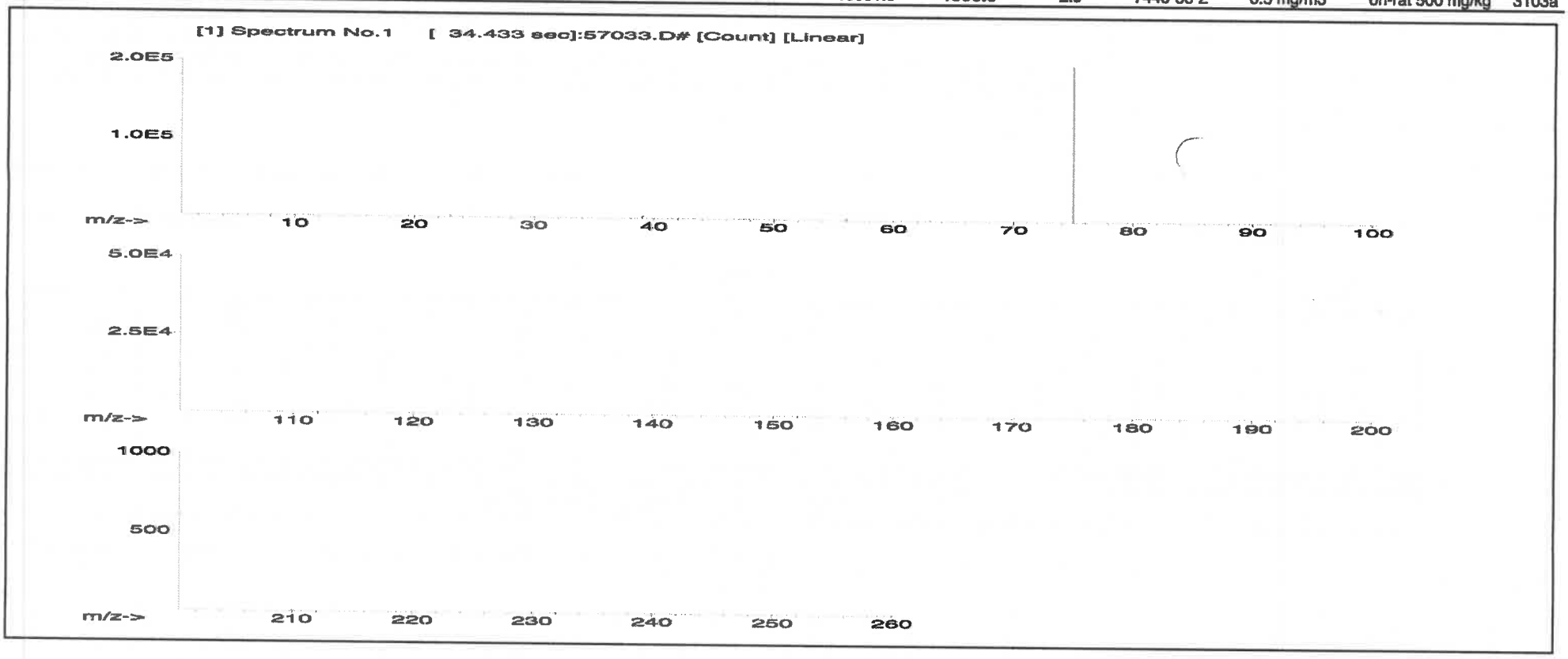
CERTIFIED **WEIGHT** REPORT:

		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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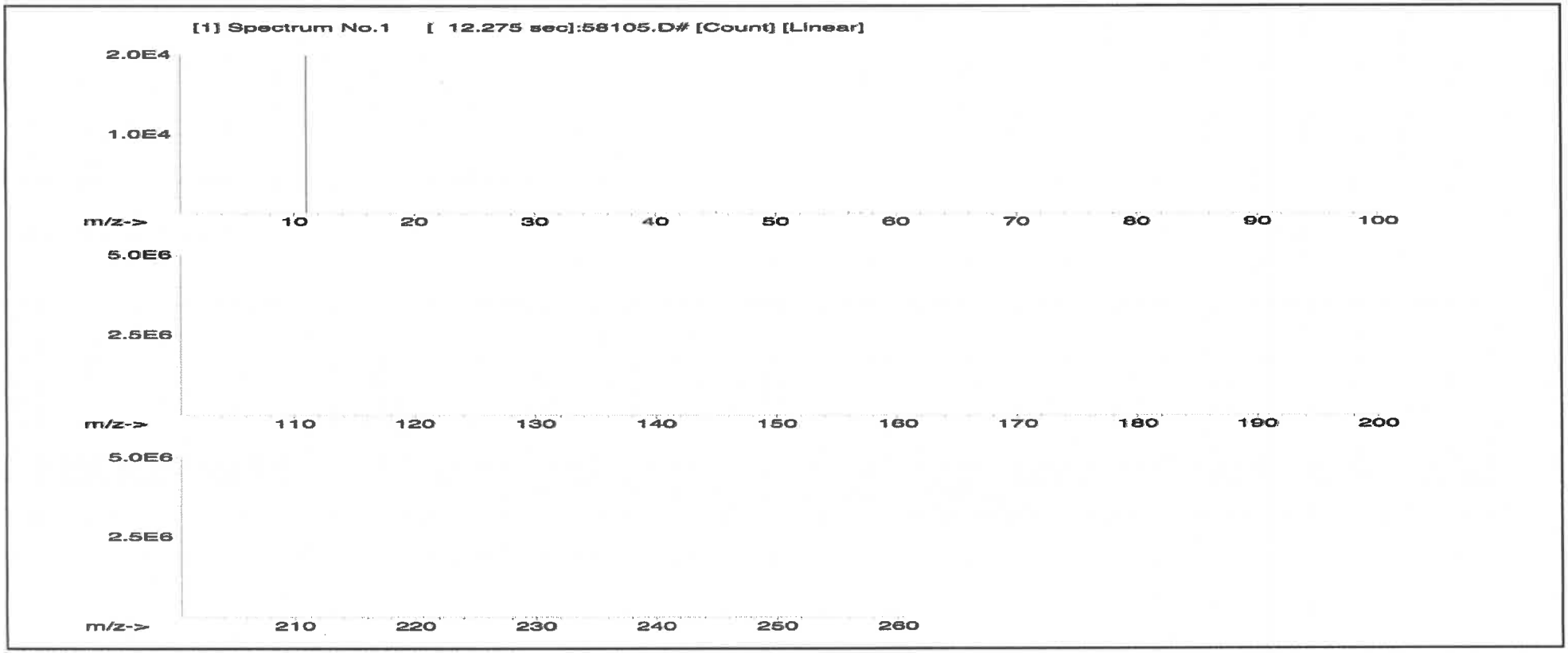
CERTIFIED WEIGHT REPORT:

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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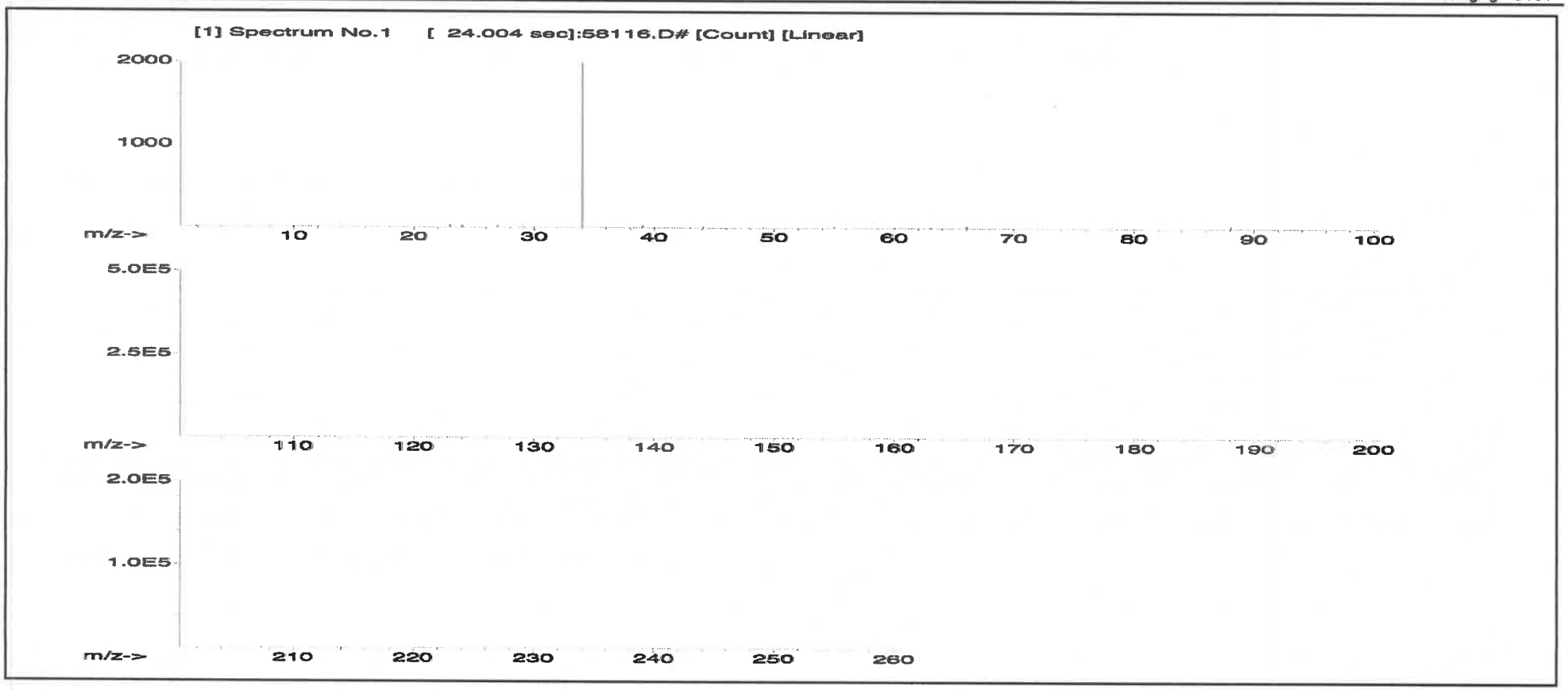
CERTIFIED WEIGHT REPORT:

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:

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

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R: 02/09/24 M5820

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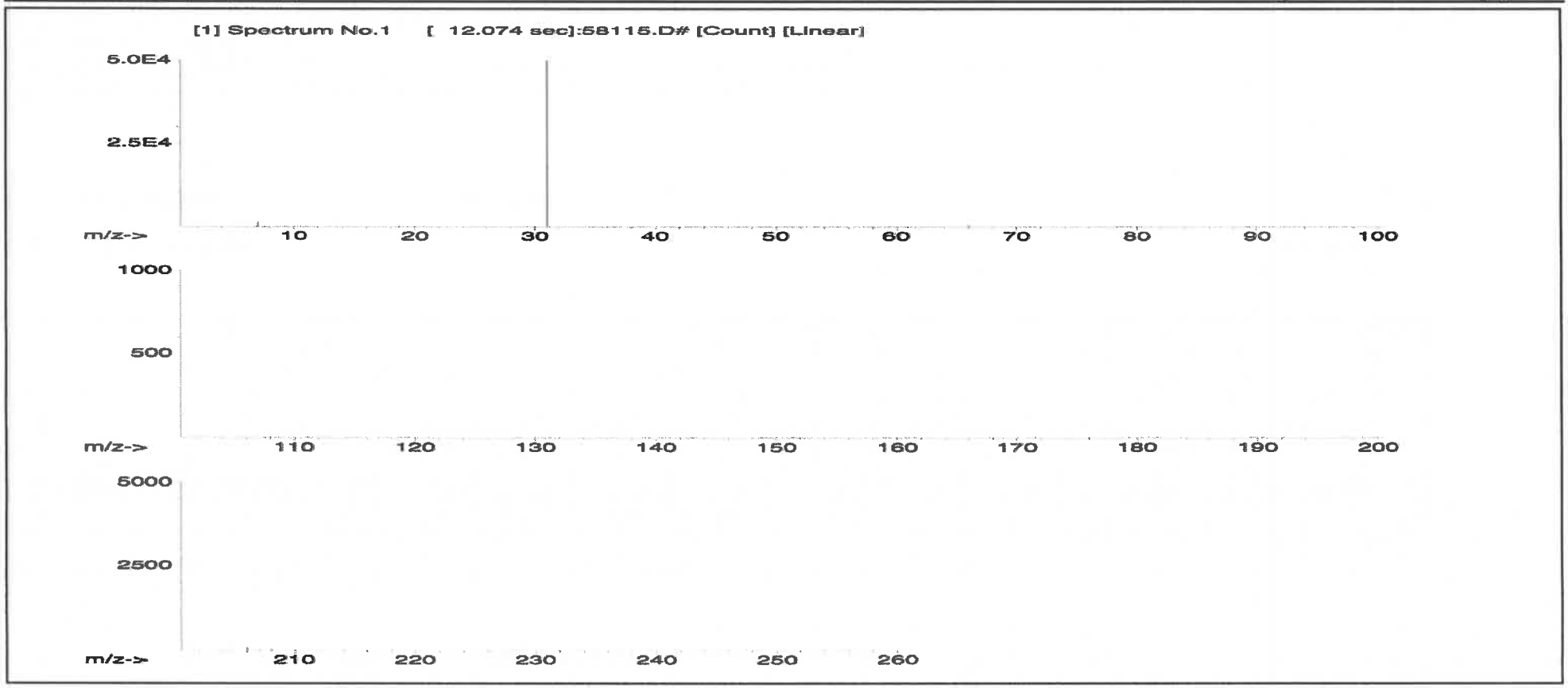
CERTIFIED WEIGHT REPORT:

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.
* 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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* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

Sodium Chloride, Crystal
BAKER ANALYZED® A.C.S. Reagent

MT884
MB

avantor™ | J.T.Baker®

Material No.: 3624-01
Batch No.: 0000281938
Manufactured Date: 2021-06-07
Retest Date: 2026-06-07
Revision No.: 1

Certificate of Analysis

Test	Specification	Result
Assay (NaCl) (by Ag titrn)	≥ 99.0 %	100.0 %
pH of 5% Solution at 25°C	5.0 - 9.0	6.3
Insoluble Matter	≤ 0.005 %	0.003 %
Iodide (I)	≤ 0.002 %	< 0.002 %
Bromide (Br)	≤ 0.01 %	< 0.01 %
Chlorate and Nitrate (as NO_3)	≤ 0.003 %	< 0.001 %
ACS - Phosphate (PO_4)	≤ 5 ppm	< 5 ppm
Sulfate (SO_4)	≤ 0.004 %	< 0.004 %
Barium (Ba)	Passes Test	Passes Test
ACS - Heavy Metals (as Pb)	≤ 5 ppm	< 5 ppm
Iron (Fe)	≤ 2 ppm	< 1 ppm
Calcium (Ca)	≤ 0.002 %	< 0.001 %
Magnesium (Mg)	≤ 0.001 %	< 0.001 %
Potassium (K)	≤ 0.005 %	0.001 %

For Laboratory,Research,or Manufacturing Use
Meets Reagent Specifications for testing USP/NF monographs
Country of Origin: USA
Packaging Site: Paris Mfg Ctr & DC

James T Ethier

Jamie Ethier
Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
100 Mansford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone 610.386.1700

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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

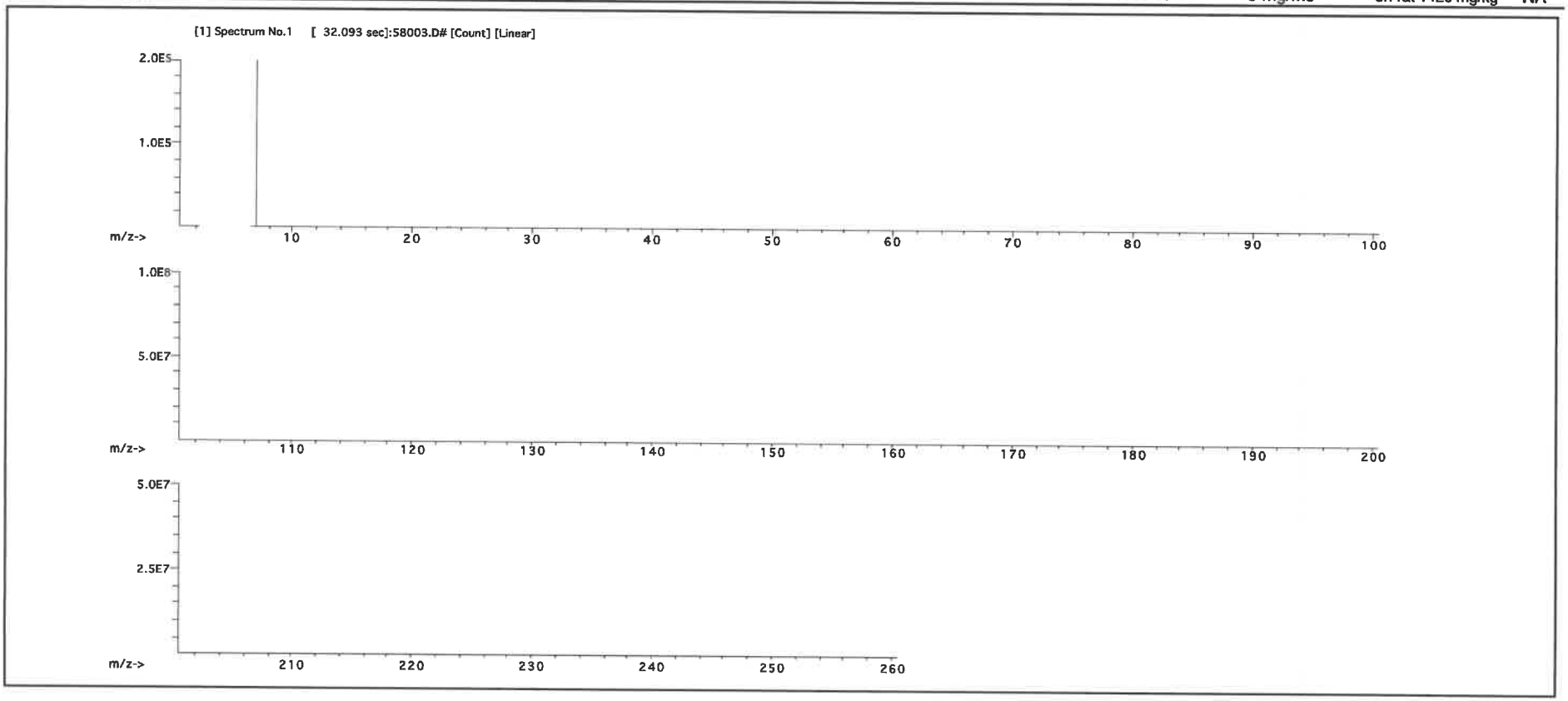
Weight shown below was diluted to (mL): 2000.02 0.058 Flask Uncertainty

	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.

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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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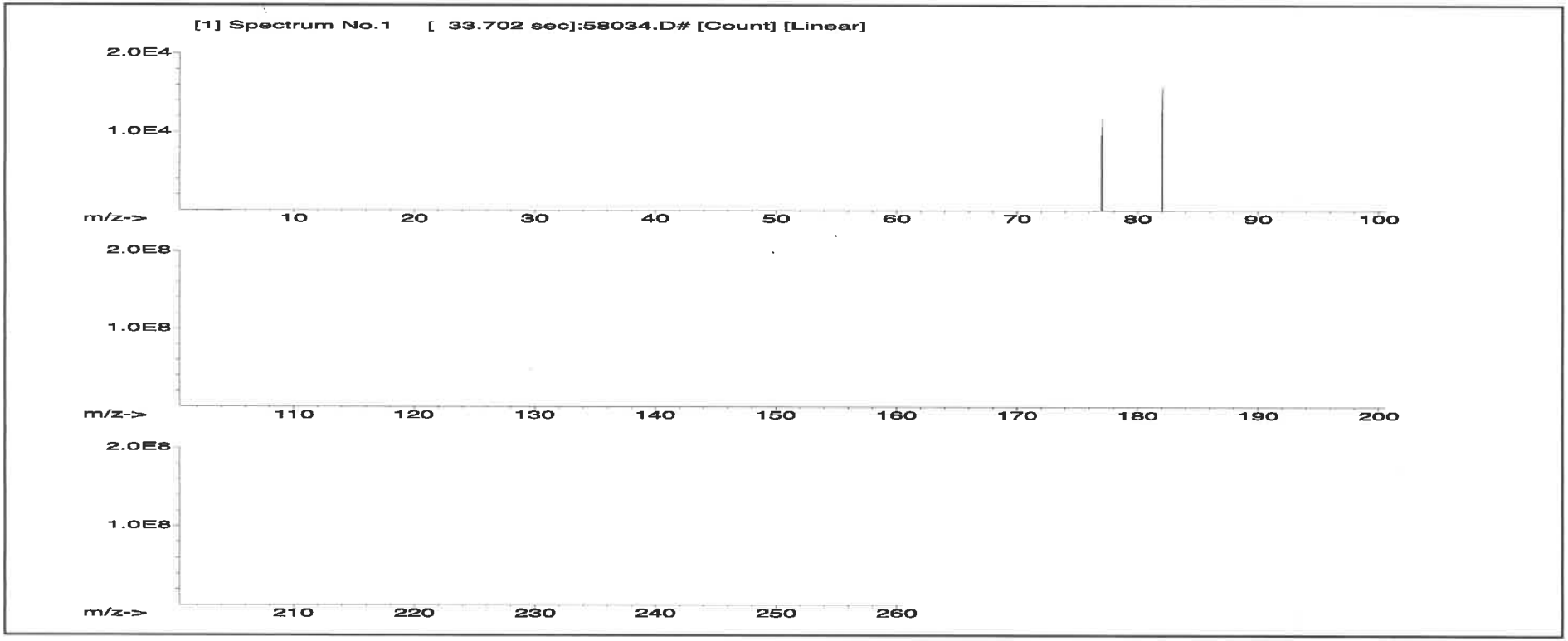
CERTIFIED WEIGHT REPORT:

		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
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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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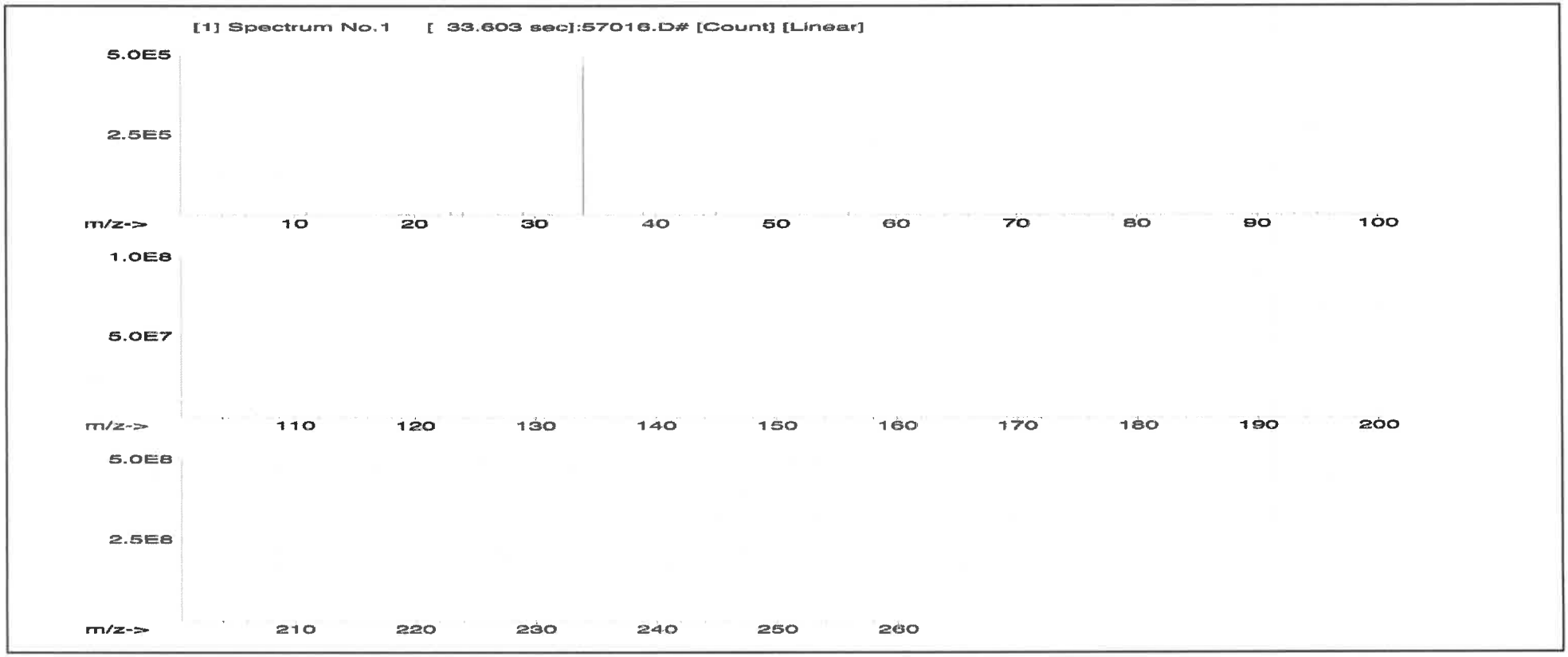
CERTIFIED WEIGHT REPORT:

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:

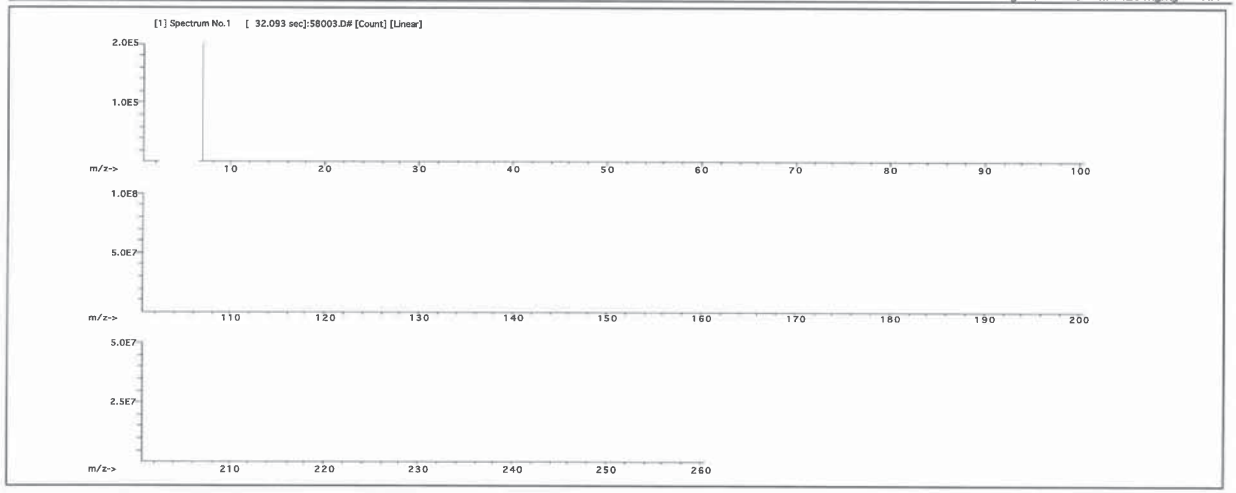
		Lot #	Solvent:
Part Number:	**57003**	24002546	Nitric Acid
Lot Number:	**062124**		
Description:	**Lithium (Li)**		
		2.0%	5.0 (mL) Nitric Acid
Expiration Date:	062127		
Recommended Storage:	Ambient (20 °C)		
Nominal Concentration (µg/mL):	**1000**		
NIST Test Number:	6UTB	5E-05 Balance Uncertainty	
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:

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Certified by:

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M5970, M5971 R: 7/01/24

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CERTIFIED WEIGHT REPORT:

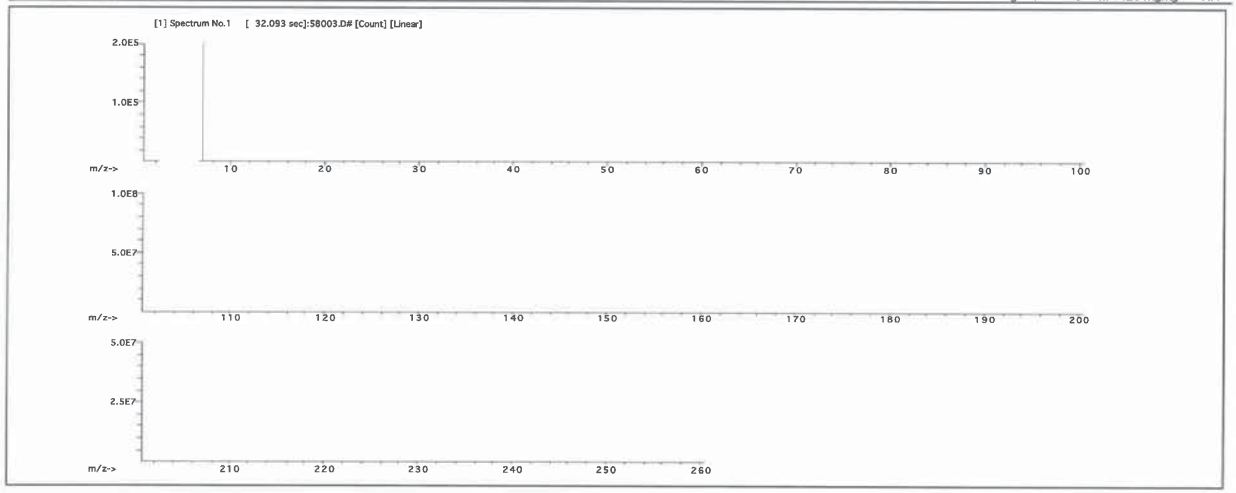
		Lot #	Solvent:
Part Number:	**57003**	24002546	Nitric Acid
Lot Number:	**062124**		
Description:	**Lithium (Li)**		
		2.0%	5.0 (mL) Nitric Acid
Expiration Date:	062127		
Recommended Storage:	Ambient (20 °C)		
Nominal Concentration (µg/mL):	**1000**		
NIST Test Number:	6UTB	5E-05 Balance Uncertainty	
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:

* 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).

M5978, M5979

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Certificate of Analysis

300 Technology Drive
Christiansburg, VA 24073 USA
inorganicventures.com

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

1.0 ACCREDITATION / REGISTRATION

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

ACCREDITED Testing Laboratory Certificate 883.01 ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGTI1
Lot Number:	T2-TI719972
Matrix:	2% (v/v) 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

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

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

June 17, 2022

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

11.2 Lot Expiration Date

- June 17, 2027

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

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

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

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

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Thomas Kozikowski
Manager, Quality Control

Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

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300 Technology Drive
Christiansburg, VA 24073 USA
inorganicventures.com

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

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1.0 ACCREDITATION / REGISTRATION

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ACCREDITED Testing Laboratory Certificate 863.01
ACCREDITED Reference Material Producer Certificate 863.02

2.0 PRODUCT DESCRIPTION

Product Code:	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

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 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

INORGANIC VENTURES
Refine your results. Redefine your industry.

Certificate of Analysis

300 Technology Drive
Christiansburg, VA 24073 USA
inorganicventures.com

R: 2/22/24
MS-997

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:	CLPP-CAL-3
Lot Number:	T2-MEB727800
Matrix:	7% (v/v) HNO3
Value / Analyte(s):	1 000 µg/mL ea: Arsenic, Lead, Selenium, Thallium, 500 µg/mL ea: Cadmium

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
Arsenic, As	**1 000 ± 7 µg/mL**	**Cadmium, Cd**	**500.0 ± 2.2 µg/mL**
Lead, Pb	**1 000 ± 4 µg/mL**	**Selenium, Se**	**1 000 ± 6 µg/mL**
Thallium, Tl	**1 000 ± 7 µg/mL**		

Density: 1.042 g/mL (measured at 20 ± 4 °C)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
As	ICP Assay	3103a	100818
As	Calculated		See Sec. 4.2
Cd	ICP Assay	3108	130116
Cd	EDTA	928	928
Pb	ICP Assay	3128	101026
Pb	EDTA	928	928
Se	ICP Assay	3149	100901
Tl	ICP Assay	3158	151215

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

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

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

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

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

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

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

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

u_{bb} = bottle to bottle homogeneity standard uncertainty

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

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

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

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

X_a = mean of Assay Method A with

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

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

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

u_{bb} = bottle to bottle homogeneity standard uncertainty

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

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

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

4.1 Thermometer Calibration

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

4.2 Balance Calibration

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

4.3 Glassware Calibration

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

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

N/A

6.0 INTENDED USE

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

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

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

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

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

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

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

8.0 HAZARDOUS INFORMATION

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

9.0 HOMOGENEITY

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

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

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

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

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

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

December 21, 2022

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

11.2 Lot Expiration Date

- December 21, 2027

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

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

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

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

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Thomas Kozikowski
Manager, Quality Control

Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

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R! 08/22/24 M6058, M6059

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

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ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Multi Analyte Custom Grade Solution
Catalog Number:	CHEM-CLP-4
Lot Number:	V2-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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300 Technology Drive
Christiansburg, VA 24073 USA
inorganicventures.com

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

EXP.: 9/6/2029

1.0 ACCREDITATION / REGISTRATION

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ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Multi Analyte Custom Grade Solution
Catalog Number:	CHEM-CLP-4
Lot Number:	V2-MEB746762
Matrix:	3% (v/v) HNO3 3% (v/v) HF
Value / Analyte(s):	1 000 µg/mL ea: Boron, Molybdenum, Silicon, Tin, Titanium

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
Boron, B	1 000 ± 5 µg/mL	Molybdenum, Mo	1 000 ± 5 µg/mL
Silicon, Si	1 000 ± 7 µg/mL	Tin, Sn	1 000 ± 5 µg/mL
Titanium, Ti	1 000 ± 6 µg/mL		

Density: 1.033 g/mL (measured at 20 ± 4 °C)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
B	ICP Assay	3107	190605
B	Calculated		See Sec. 4.2
Mo	ICP Assay	traceable to 3134	U2-MO739068
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

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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

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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	

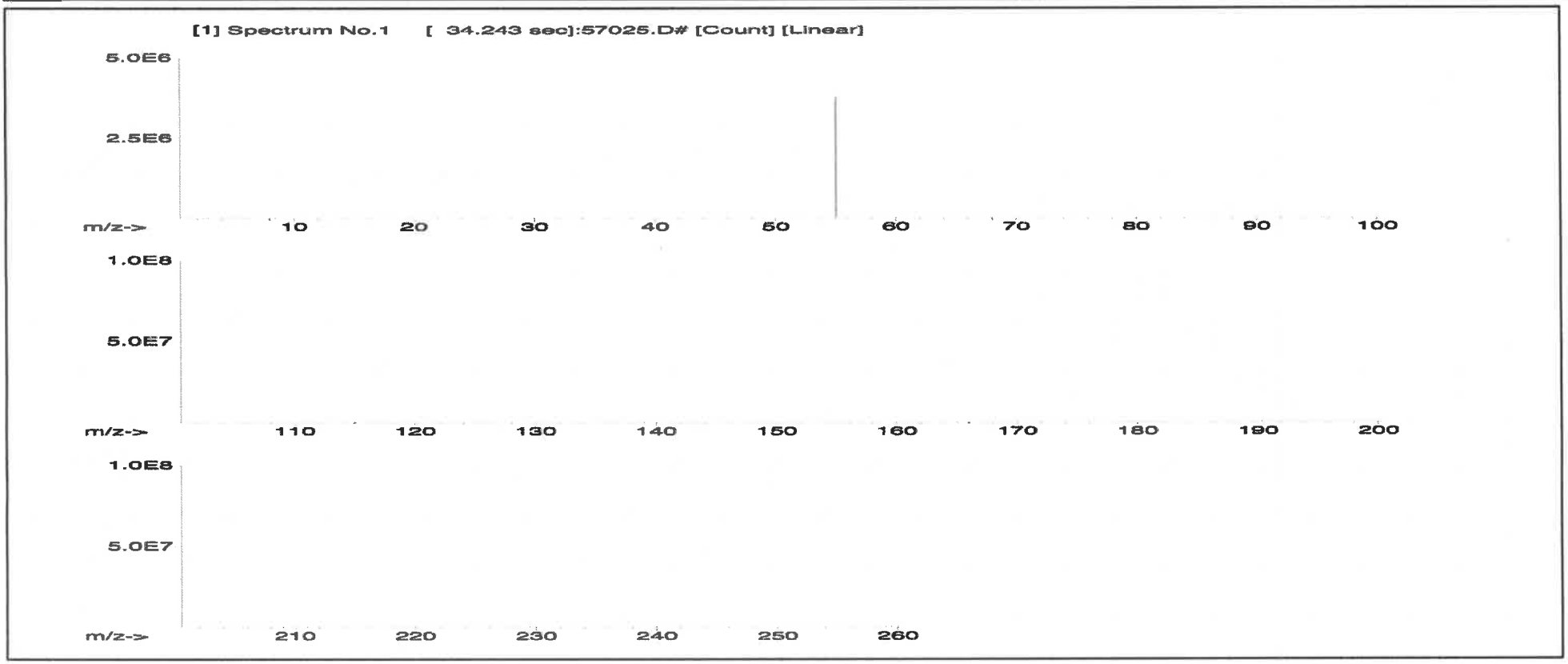
Giovanni Esposito

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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Refine your results. Redefine your industry.

Certificate of Analysis

300 Technology Drive
Christiansburg, VA 24073 USA
inorganicventures.com

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

M6137 R→10/3/24

1.0 ACCREDITATION / REGISTRATION

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

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGSI1
Lot Number:	V2-SI744713
Matrix:	tr. HNO3 tr. HF
Value / Analyte(s):	1 000 µg/mL ea: Silicon
Starting Material:	Silica
Starting Material Lot#:	1771
Starting Material Purity:	99.9981%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 999 ± 6 µg/mL

Density: 1.003 g/mL (measured at 20 ± 4 °C)

Assay Information:

Assay Method #1	**999 ± 5 µg/mL** ICP Assay NIST SRM Traceable to 3150 Lot Number: S2-SI702546
Assay Method #2	**1000 ± 7 µg/mL** Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

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

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

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

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

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

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

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

u_{bb} = bottle to bottle homogeneity standard uncertainty

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

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

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

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

X_a = mean of Assay Method A with

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

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

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

u_{bb} = bottle to bottle homogeneity standard uncertainty

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

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

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

4.1 Thermometer Calibration

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

4.2 Balance Calibration

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

4.3 Glassware Calibration

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

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

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

M	Ag	<	0.000310	M	Eu	<	0.000310	O	Na		0.001656	M	Se	<	0.022000	M	Zn	<	0.002500
M	Al		0.010787	M	Fe	<	0.027000	M	Nb	<	0.001300	s	Si	<		O	Zr	<	0.001900
M	As	<	0.001900	M	Ga	<	0.001300	M	Nd	<	0.000310	M	Sm	<	0.000310				
M	Au	<	0.000910	M	Gd	<	0.000310	M	Ni	<	0.005500	M	Sn		0.000096				
M	B		0.016180	M	Ge	<	0.001900	M	Os	<	0.000610	O	Sr		0.000092				
M	Ba		0.000096	M	Hf		0.000423	i	P	<		M	Ta		0.002542				
O	Be	<	0.000570	M	Hg	<	0.000610	M	Pb	<	0.000310	M	Tb	<	0.000310				
M	Bi	<	0.000310	M	Ho	<	0.000610	M	Pd	<	0.000610	M	Te	<	0.000910				
O	Ca		0.011557	M	In	<	0.000310	M	Pr	<	0.000310	M	Th	<	0.001900				
M	Cd	<	0.000310	M	Ir	<	0.000310	M	Pt	<	0.000310	M	Ti		0.001078				
M	Ce	<	0.000610	O	K		0.000577	M	Rb	<	0.009100	M	Tl	<	0.000310				
M	Co	<	0.001600	M	La	<	0.000310	M	Re	<	0.000310	M	Tm	<	0.000310				
M	Cr	<	0.010000	O	Li	<	0.000460	M	Rh	<	0.000310	M	U	<	0.000310				
M	Cs	<	0.000310	M	Lu	<	0.000310	M	Ru	<	0.000310	O	V	<	0.001300				
M	Cu	<	0.002500	O	Mg		0.001348	O	S	<	0.570000	M	W	<	0.001900				
M	Dy	<	0.000310	M	Mn	<	0.002500	M	Sb	<	0.000310	M	Y	<	0.000310				
M	Er	<	0.000310	M	Mo	<	0.000310	O	Sc	<	0.000590	M	Yb	<	0.000310				

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

6.0 INTENDED USE

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

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

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

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

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

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

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

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 28.09 +4 6 Si(OH)x(F)y2-

Chemical Compatibility -Soluble in HCl, HF, H3PO4 H2SO4 and HNO3 as the Si(OH)x(F)y2-. Avoid neutral to basic media. Unstable at ppm levels with metals that would pull F- away (i.e. Do not mix with Alkaline or Rare Earths, or high levels of transition elements unless they are fluorinated. Stable with most inorganic anions with a tendency to hydrolyze forming silicic acid (silicic acid is soluble up to ∼100 ppm in water) in all dilute acids except HF.

Stability - 2-100 ppb levels - stability unknown - (alone or mixed with all other metals) as the Si(OH)x(F)y2-. 1-10,000 ppm single element solutions as the Si(OH)x(F)y2- chemically stable for years in 2-5 % HNO3 / trace HF in a LDPE container.

Si Containing Samples (Preparation and Solution) -Metal (Soluble in 1:1:1 H2O / HF / HNO3); Oxide - SiO2, amorphic (dissolve by heating in 1:1:1 H2O / HF / HNO3); Oxide - quartz (fuse in Pt0 with Na2CO3); Geological Samples(fuse in Pt0with Na2CO3 followed by HCl solution of the fuseate); Organic Matrices containing silicates and non volatile silicon compounds (dry ash at 4500C in Pt0 and dissolve by gently warming with 1:1:1 H2O / HF / H2SO4 or fuse / ash with Na2CO3 and dissolve fuseate with HCl / H2O); Silicone Oils - dimethyl silicones depolymerize to form volatile monomer units when heated (Measure directly in alcoholic KOH / xylene mixture where sample is treated first with the KOH at 60-1000C to "unzip" the Si- O-Si polymeric structure or digest with conc. H2SO4 / H2O2 followed by cooling and dissolution of the dehydrated silica with HF.) Note that the direct analysis of silicone oils in an organic solvent will result in false high results due to high vapor pressure of volatile monomer units like hexamethylcyclotrisiloxane. The KOH forms the K2+Si(CH3)2O= salt which is not volatile at room temperature.

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

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

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

8.0 HAZARDOUS INFORMATION

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

9.0 HOMOGENEITY

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

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

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

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

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

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

July 10, 2024

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

11.2 Lot Expiration Date

- **July 10, 2029**

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

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

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

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

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Prepared By:

Uyen Truong
Custom Processing Supervisor

Certificate Approved By:

Muzzammil Khan
Stock Laboratory Supervisor

Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

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www.absolutestandards.com

Certified Reference Material CRM

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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

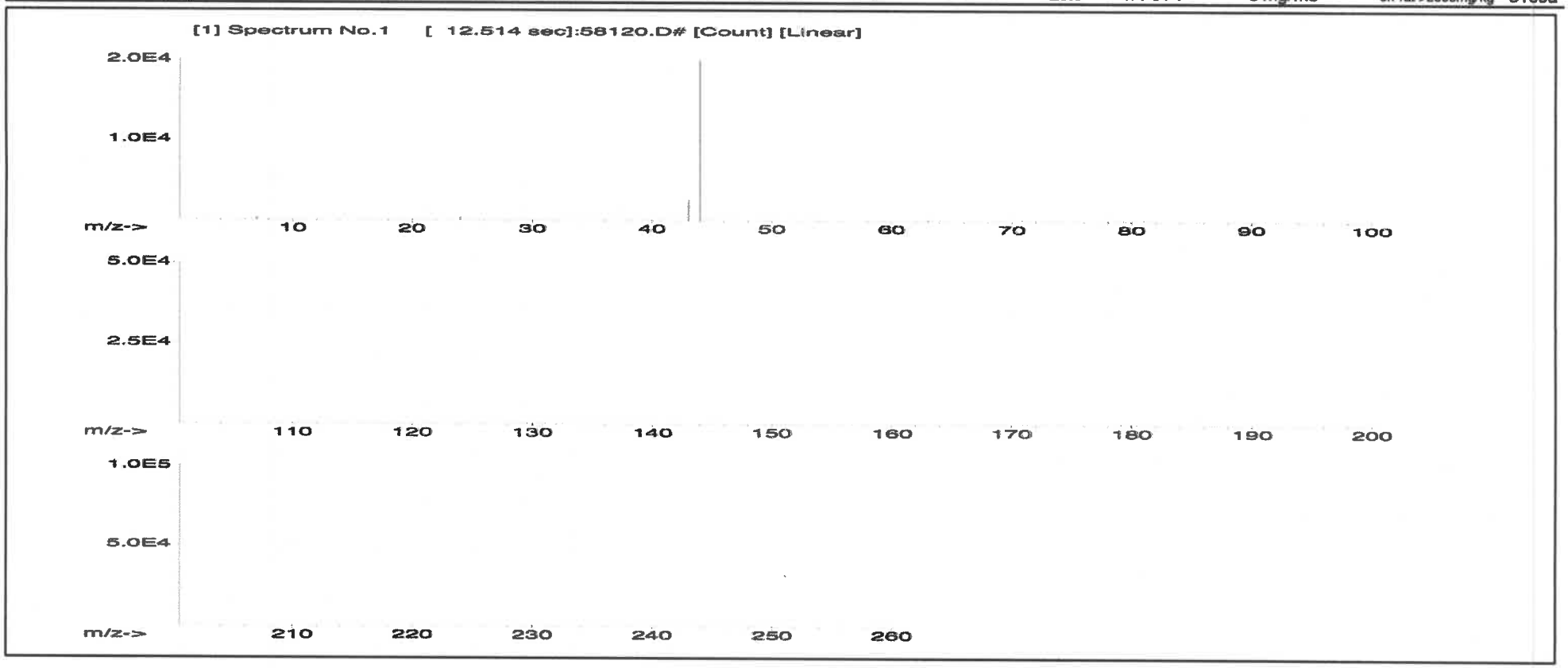
Weight shown below was diluted to (mL): 4000.1 0.15 Flask Uncertainty

	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 Reference Material CRM

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AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT:

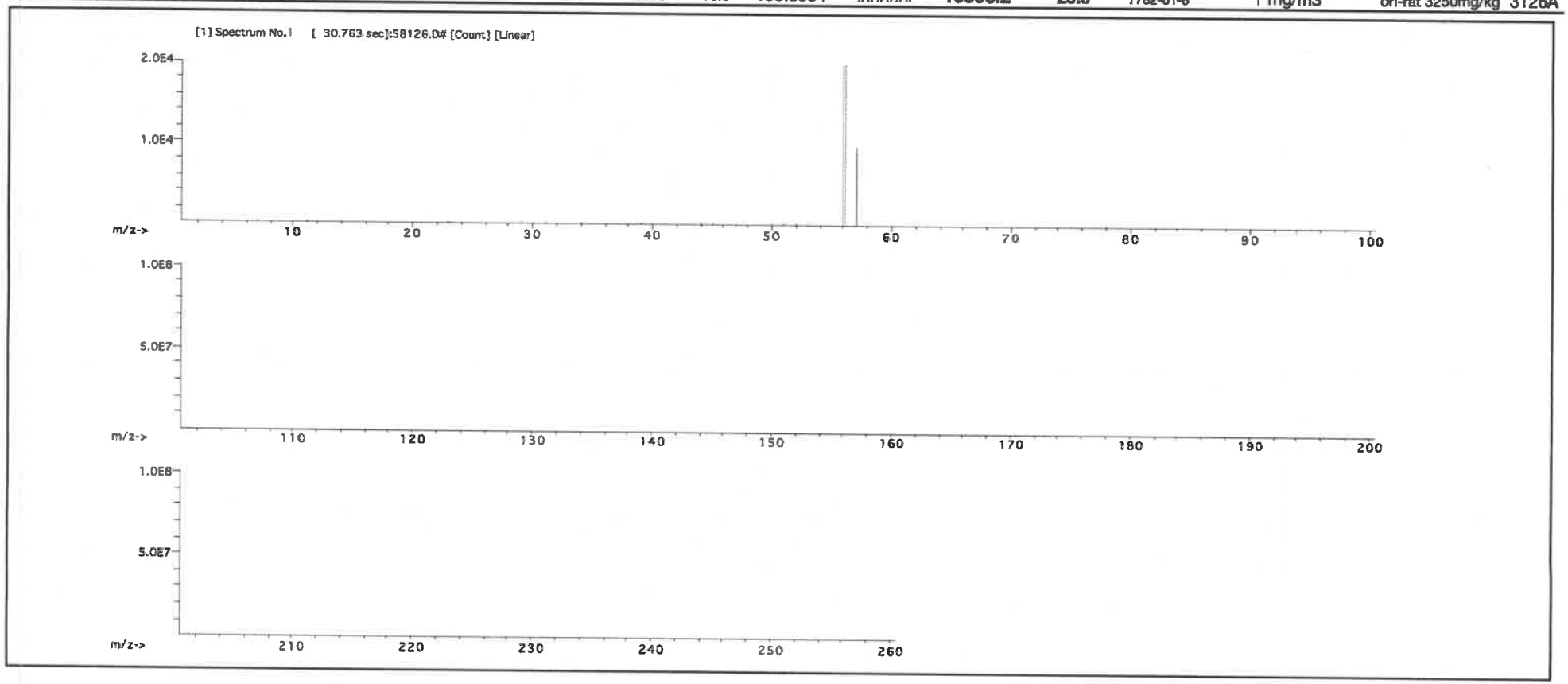
Part Number: 58126 R->1|B|2S
Lot Number: 011025
Description: Iron (Fe) M6140
Expiration Date: 011028
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 2000.07

	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 Reference Material CRM

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
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CERTIFIED WEIGHT REPORT:

R-> 1/13/25

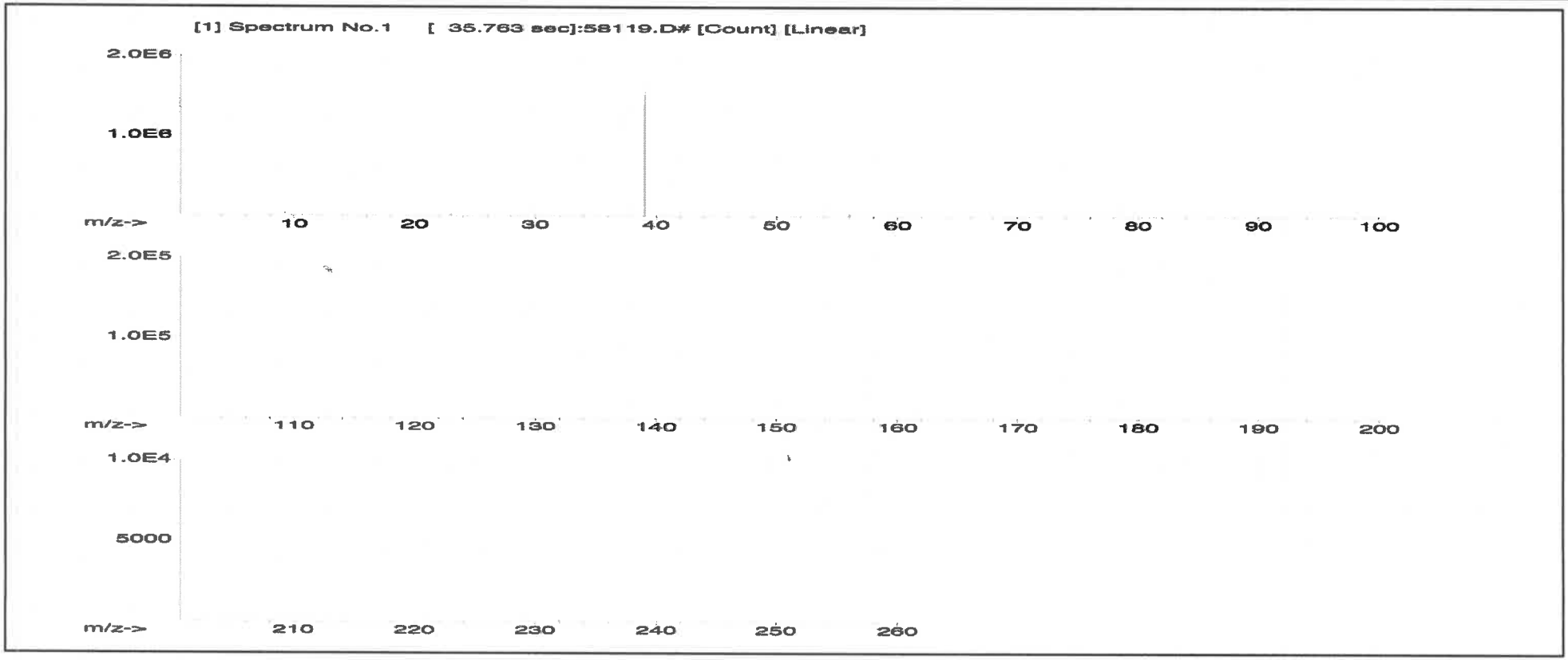
Part Number:	**57119**		**Lot #**		
Lot Number:	**103024**	**Solvent:**	24002546	Nitric Acid	
Description:	**Potassium (K)**	2%	80.0 (mL)	Nitric Acid	
Expiration Date:	103027				
Recommended Storage:	Ambient (20 °C)				
Nominal Concentration (µg/mL):	**10000**				
NIST Test Number:	6UTB	5E-05	Balance 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).
* 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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AR-1539 Certificate Number
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CERTIFIED WEIGHT REPORT:

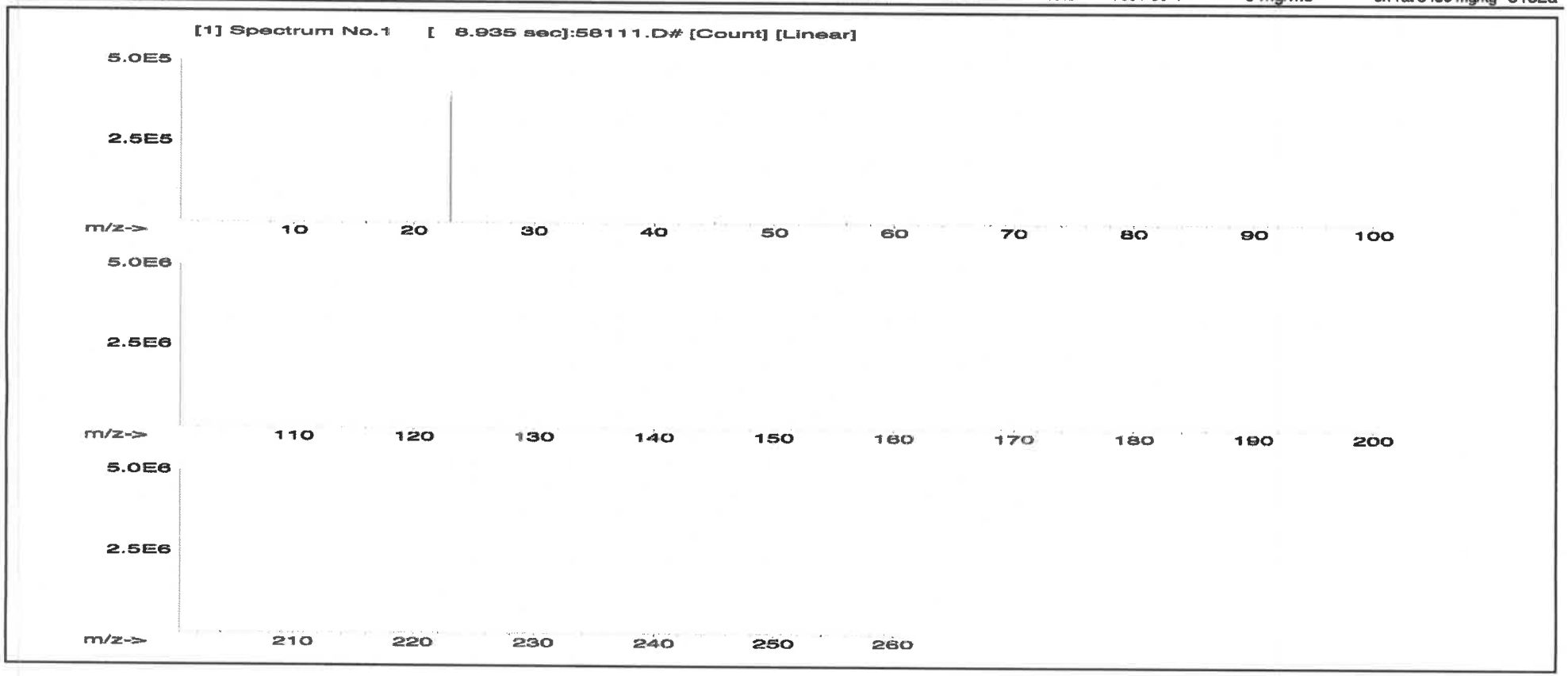
R->1/13/25

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).

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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

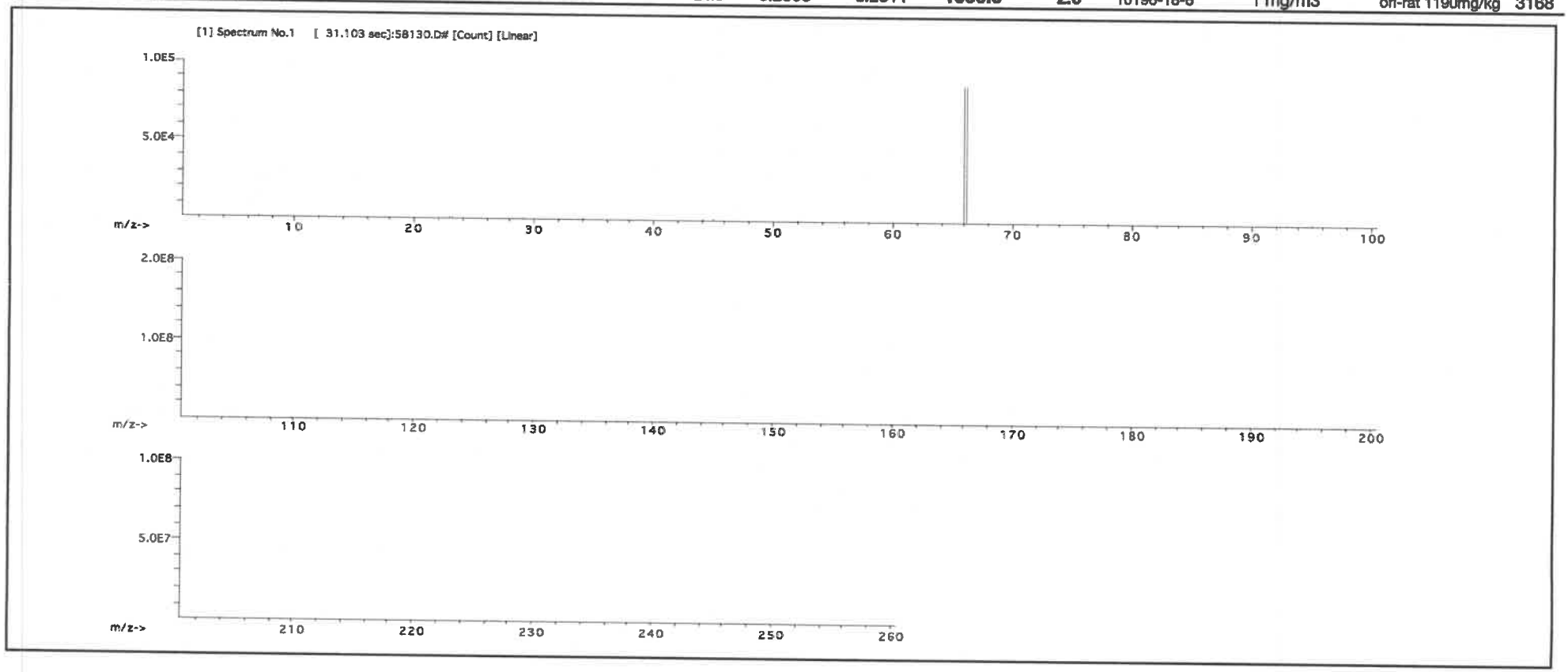
		Lot #	
Solvent:	24012496	Nitric Acid	
	2%	40.0 (mL)	Nitric Acid

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.
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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).

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

avantor™ | J.T.Baker®

M6151

R→ 1/15/25

Material No.: 9530-33
Batch No.: 22G2862015
Manufactured Date: 2022-06-15
Retest Date: 2027-06-14
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
ACS – Assay (as HCl) (by acid-base titrn)	36.5 – 38.0 %	37.9 %
ACS – Color (APHA)	≤ 10	5
ACS – Residue after Ignition	≤ 3 ppm	< 1 ppm
ACS – Specific Gravity at 60°/60°F	1.185 – 1.192	1.191
ACS – Bromide (Br)	≤ 0.005 %	< 0.005 %
ACS – Extractable Organic Substances	≤ 5 ppm	< 1 ppm
ACS – Free Chlorine (as Cl_2)	≤ 0.5 ppm	< 0.5 ppm
Phosphate (PO_4)	≤ 0.05 ppm	< 0.03 ppm
Sulfate (SO_4)	≤ 0.5 ppm	< 0.3 ppm
Sulfite (SO_3)	≤ 0.8 ppm	0.3 ppm
Ammonium (NH_4)	≤ 3 ppm	< 1 ppm
Trace Impurities – Arsenic (As)	≤ 0.010 ppm	< 0.003 ppm
Trace Impurities – Aluminum (Al)	≤ 10.0 ppb	1.3 ppb
Arsenic and Antimony (as As)	≤ 5.0 ppb	< 3.0 ppb
Trace Impurities – Barium (Ba)	≤ 1.0 ppb	0.2 ppb
Trace Impurities – Beryllium (Be)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities – Bismuth (Bi)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Boron (B)	≤ 20.0 ppb	< 5.0 ppb
Trace Impurities – Cadmium (Cd)	≤ 1.0 ppb	< 0.3 ppb
Trace Impurities – Calcium (Ca)	≤ 50.0 ppb	163.0 ppb
Trace Impurities – Chromium (Cr)	≤ 1.0 ppb	0.7 ppb
Trace Impurities – Cobalt (Co)	≤ 1.0 ppb	< 0.3 ppb
Trace Impurities – Copper (Cu)	≤ 1.0 ppb	< 0.1 ppb
Trace Impurities – Gallium (Ga)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities – Germanium (Ge)	≤ 3.0 ppb	< 2.0 ppb
Trace Impurities – Gold (Au)	≤ 4.0 ppb	0.6 ppb
Heavy Metals (as Pb)	≤ 100 ppb	< 50 ppb
Trace Impurities – Iron (Fe)	≤ 15 ppb	6 ppb

>>> Continued on page 2 >>>

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

avantor™ | J.T.Baker®

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

Test	Specification	Result
Trace Impurities - Lead (Pb)	≤ 1.0 ppb	< 0.5 ppb
Trace Impurities - Lithium (Li)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Magnesium (Mg)	≤ 10.0 ppb	2.9 ppb
Trace Impurities - Manganese (Mn)	≤ 1.0 ppb	< 0.4 ppb
Trace Impurities - Mercury (Hg)	≤ 0.5 ppb	0.1 ppb
Trace Impurities - Molybdenum (Mo)	≤ 10.0 ppb	< 3.0 ppb
Trace Impurities - Nickel (Ni)	≤ 4.0 ppb	< 0.3 ppb
Trace Impurities - Niobium (Nb)	≤ 1.0 ppb	0.8 ppb
Trace Impurities - Potassium (K)	≤ 9.0 ppb	< 2.0 ppb
Trace Impurities - Selenium (Se), For Information Only		< 1.0 ppb
Trace Impurities - Silicon (Si)	≤ 100.0 ppb	< 10.0 ppb
Trace Impurities - Silver (Ag)	≤ 1.0 ppb	0.5 ppb
Trace Impurities - Sodium (Na)	≤ 100.0 ppb	2.3 ppb
Trace Impurities - Strontium (Sr)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Tantalum (Ta)	≤ 1.0 ppb	1.6 ppb
Trace Impurities - Thallium (Tl)	≤ 5.0 ppb	< 2.0 ppb
Trace Impurities - Tin (Sn)	≤ 5.0 ppb	4.0 ppb
Trace Impurities - Titanium (Ti)	≤ 1.0 ppb	1.5 ppb
Trace Impurities - Vanadium (V)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Zinc (Zn)	≤ 5.0 ppb	0.8 ppb
Trace Impurities - Zirconium (Zr)	≤ 1.0 ppb	0.3 ppb

>>> Continued on page 3 >>>

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

avantor™ | J.T.Baker®

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

Test	Specification	Result

For Laboratory,Research,or Manufacturing Use
Product Information (not specifications):
Appearance (clear, fuming liquid)
Meets ACS Specifications
Storage Condition: Store below 25 °C.

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

James T Ethier

Jamie Ethier
Vice President Global Quality

Nitric Acid 69%
CMOS

avantor™ | J.T.Baker®

R-02102/2025

M-6158

Material No.: 9606-03
Batch No.: 24D1062002
Manufactured Date: 2024-03-26
Retest Date: 2029-03-25
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay (HNO_3)	69.0 - 70.0 %	69.7 %
Appearance	Passes Test	Passes Test
Color (APHA)	≤ 10	5
Residue after Ignition	≤ 2 ppm	1 ppm
Chloride (Cl)	≤ 0.08 ppm	< 0.03 ppm
Phosphate (PO_4)	≤ 0.10 ppm	< 0.03 ppm
Sulfate (SO_4)	≤ 0.2 ppm	< 0.2 ppm
Trace Impurities - Aluminum (Al)	≤ 40.0 ppb	< 1.0 ppb
Arsenic and Antimony (as As)	≤ 5.0 ppb	< 2.0 ppb
Trace Impurities - Barium (Ba)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Beryllium (Be)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Bismuth (Bi)	≤ 20.0 ppb	< 10.0 ppb
Trace Impurities - Boron (B)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities - Cadmium (Cd)	≤ 50 ppb	< 1 ppb
Trace Impurities - Calcium (Ca)	≤ 50.0 ppb	2.3 ppb
Trace Impurities - Chromium (Cr)	≤ 30.0 ppb	< 1.0 ppb
Trace Impurities - Cobalt (Co)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Copper (Cu)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Gallium (Ga)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Germanium (Ge)	≤ 20 ppb	< 10 ppb
Trace Impurities - Gold (Au)	≤ 20 ppb	< 5 ppb
Heavy Metals (as Pb)	≤ 100 ppb	100 ppb
Trace Impurities - Iron (Fe)	≤ 40.0 ppb	< 1.0 ppb
Trace Impurities - Lead (Pb)	≤ 20.0 ppb	< 10.0 ppb
Trace Impurities - Lithium (Li)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Magnesium (Mg)	≤ 20 ppb	< 1 ppb
Trace Impurities - Manganese (Mn)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Nickel (Ni)	≤ 20.0 ppb	< 5.0 ppb

>>> Continued on page 2 >>>

Nitric Acid 69%
CMOS

avantor™ | J.T.Baker®

Material No.: 9606-03
Batch No.: 24D1062002

Test	Specification	Result
Trace Impurities - Niobium (Nb)	≤ 50.0 ppb	< 1.0 ppb
Trace Impurities - Potassium (K)	≤ 50 ppb	16 ppb
Trace Impurities - Silicon (Si)	≤ 50 ppb	< 10 ppb
Trace Impurities - Silver (Ag)	≤ 20.0 ppb	< 1.0 ppb
Trace Impurities - Sodium (Na)	≤ 150.0 ppb	< 5.0 ppb
Trace Impurities - Strontium (Sr)	≤ 30.0 ppb	< 1.0 ppb
Trace Impurities - Tantalum (Ta)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities - Thallium (Tl)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities - Tin (Sn)	≤ 20.0 ppb	< 10.0 ppb
Trace Impurities - Titanium (Ti)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Vanadium (V)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Zinc (Zn)	≤ 20.0 ppb	< 1.0 ppb
Trace Impurities - Zirconium (Zr)	≤ 10.0 ppb	< 1.0 ppb
Particle Count - 0.5 µm and greater	≤ 60 par/ml	10 par/ml
Particle Count - 1.0 µm and greater	≤ 10 par/ml	3 par/ml

>>> Continued on page 3 >>>

Nitric Acid 69%
CMOS

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Material No.: 9606-03
Batch No.: 24D1062002

Test	Specification	Result

For Microelectronic Use

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

Jamie Croak
Director Quality Operations, Bioscience Production

Nitric Acid 69%
CMOS

avantor™ | J.T.Baker®

m-6162

R. Date :- 04/27/2025

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

Certificate of Analysis

Test	Specification	Result
Assay (HNO_3)	69.0 – 70.0 %	69.7 %
Appearance	Passes Test	Passes Test
Color (APHA)	≤ 10	5
Residue after Ignition	≤ 2 ppm	< 1 ppm
Chloride (Cl)	≤ 0.08 ppm	0.03 ppm
Phosphate (PO_4)	≤ 0.10 ppm	< 0.03 ppm
Sulfate (SO_4)	≤ 0.2 ppm	< 0.2 ppm
Trace Impurities – Aluminum (Al)	≤ 40.0 ppb	< 1.0 ppb
Arsenic and Antimony (as As)	≤ 5.0 ppb	< 2.0 ppb
Trace Impurities – Barium (Ba)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Beryllium (Be)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Bismuth (Bi)	≤ 20.0 ppb	< 1.0 ppb
Trace Impurities – Boron (B)	≤ 10.0 ppb	0.1 ppb
Trace Impurities – Cadmium (Cd)	≤ 50 ppb	< 1 ppb
Trace Impurities – Calcium (Ca)	≤ 50.0 ppb	0.3 ppb
Trace Impurities – Chromium (Cr)	≤ 30.0 ppb	0.1 ppb
Trace Impurities – Cobalt (Co)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Copper (Cu)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Gallium (Ga)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Germanium (Ge)	≤ 20 ppb	< 1 ppb
Trace Impurities – Gold (Au)	≤ 20 ppb	< 1 ppb
Heavy Metals (as Pb)	≤ 100 ppb	< 50 ppb
Trace Impurities – Iron (Fe)	≤ 40.0 ppb	< 1.0 ppb
Trace Impurities – Lead (Pb)	≤ 20.0 ppb	< 1.0 ppb
Trace Impurities – Lithium (Li)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Magnesium (Mg)	≤ 20 ppb	< 1 ppb
Trace Impurities – Manganese (Mn)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Nickel (Ni)	≤ 20.0 ppb	< 1.0 ppb

>>> Continued on page 2 >>>

Nitric Acid 69%
CMOS

avantor™ | J.T.Baker®

Material No.: 9606-03
Batch No.: 24H0162012

Test	Specification	Result
Trace Impurities - Niobium (Nb)	≤ 50.0 ppb	< 1.0 ppb
Trace Impurities - Potassium (K)	≤ 50 ppb	< 1 ppb
Trace Impurities - Silicon (Si)	≤ 50 ppb	1 ppb
Trace Impurities - Silver (Ag)	≤ 20.0 ppb	< 1.0 ppb
Trace Impurities - Sodium (Na)	≤ 150.0 ppb	< 1.0 ppb
Trace Impurities - Strontium (Sr)	≤ 30.0 ppb	< 1.0 ppb
Trace Impurities - Tantalum (Ta)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Thallium (Tl)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Tin (Sn)	≤ 20.0 ppb	< 1.0 ppb
Trace Impurities - Titanium (Ti)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Vanadium (V)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Zinc (Zn)	≤ 20.0 ppb	< 1.0 ppb
Trace Impurities - Zirconium (Zr)	≤ 10.0 ppb	< 1.0 ppb
Particle Count - 0.5 µm and greater	≤ 60 par/ml	13 par/ml
Particle Count - 1.0 µm and greater	≤ 10 par/ml	5 par/ml

>>> Continued on page 3 >>>

Nitric Acid 69%
CMOS

avantor™ | J.T.Baker®

Material No.: 9606-03
Batch No.: 24H0162012

Test	Specification	Result

For Microelectronic Use

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

Jamie Croak
Director Quality Operations, Bioscience Production

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.

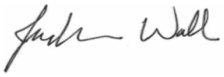
12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

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

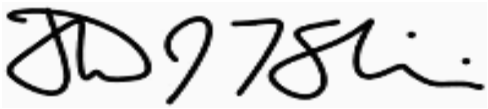
- Sealed TCT Bag Open Date: _____

- 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

300 Technology Drive
Christiansburg, VA 24073 USA
inorganicventures.com

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

1.0 ACCREDITATION / REGISTRATION

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

ACCREDITED
Testing Laboratory
Certificate 883.01

ACCREDITED
Reference Material Producer
Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Multi Analyte Custom Grade Solution
Catalog Number:	QCP-CICV-3
Lot Number:	V2-MEB749572
Matrix:	7% (v/v) HNO3
Value / Analyte(s):	500 µg/mL ea: Arsenic, Lead, Selenium, Thallium, 250 µg/mL ea: Cadmium

Second Source: Whenever possible, this solution was manufactured from a second set of concentrates in our manufacturing facility.

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
Arsenic, As	**500.0 ± 3.1 µg/mL**	**Cadmium, Cd**	**250.1 ± 1.1 µg/mL**
Lead, Pb	**500.0 ± 2.3 µg/mL**	**Selenium, Se**	**500.0 ± 3.2 µg/mL**
Thallium, Tl	**500.0 ± 3.0 µg/mL**		

Density: 1.040 g/mL (measured at 20 ± 4 ºC)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
As	ICP Assay	3103a	100818
Cd	ICP Assay	3108	130116
Cd	EDTA	928	928
Pb	ICP Assay	3128	101026
Pb	EDTA	928	928
Se	ICP Assay	3149	100901
Tl	ICP Assay	3158	151215

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

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

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

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

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

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

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

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

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

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

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

X_a = mean of Assay Method A with

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

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

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

u_{bb} = bottle to bottle homogeneity standard uncertainty

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

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

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

4.1 Thermometer Calibration

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

4.2 Balance Calibration

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

4.3 Glassware Calibration

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

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

N/A

6.0 INTENDED USE

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

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

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

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

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

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

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

8.0 HAZARDOUS INFORMATION

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

9.0 HOMOGENEITY

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

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

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

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

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

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

January 02, 2025

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

11.2 Lot Expiration Date

- **January 02, 2030**

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

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

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

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

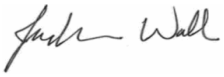
12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Prepared By:

Justin Dirico
Stock Processing Supervisor

Certificate Approved By:

Jodie Wall
Stock VSM Coordinator



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

Hydrogen Peroxide, 30%
CMOS
(Stabilized)

M-6170

R.Date . 8-05/20/2025

avantor™ | J.T.Baker®

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

Test	Specification	Result
Trace Impurities – Manganese (Mn)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Molybdenum (Mo)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities – Nickel (Ni)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities – Niobium (Nb)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Potassium (K)	≤ 600.0 ppb	176.7 ppb
Trace Impurities – Silicon (Si)	≤ 100.0 ppb	< 10.0 ppb
Trace Impurities – Silver (Ag)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Sodium (Na)	≤ 100.0 ppb	< 5.0 ppb
Trace Impurities – Strontium (Sr)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Tantalum (Ta)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities – Thallium (Tl)	≤ 50.0 ppb	< 5.0 ppb
Trace Impurities – Tin (Sn)	190.0 – 500.0 ppb	272.3 ppb
Trace Impurities – Titanium (Ti)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Vanadium (V)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Zinc (Zn)	≤ 50 ppb	< 1 ppb
Trace Impurities – Zirconium (Zr)	≤ 10.0 ppb	< 1.0 ppb
Particle Count – 0.2 µm and greater	≤ 1175 par/ml	202 par/ml
Particle Count – 0.5 µm and greater	≤ 100 par/ml	33 par/ml

>>> Continued on page 3 >>>

Hydrogen Peroxide, 30%
CMOS
(Stabilized)

avantor™ | J.T.Baker®

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

Test	Specification	Result

For Microelectronic Use

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

Michelle Bales
Sr. Manager, Quality Assurance

Hydrogen Peroxide, 30%
CMOS
(Stabilized)

avantor™ | J.T.Baker®

Material No.: 2190-03
Batch No.: 24D1961001
Manufactured Date: 2024-04-17
Expiration Date: 2025-10-16
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay (H_2O_2)	30.0 - 32.0 %	31.6 %
Color (APHA)	≤ 10	< 5
Free Acid (µeq/g)	≤ 0.2	0.1
Residue after Evaporation	≤ 10 ppm	2 ppm
Ammonium (NH_4)	≤ 3 ppm	< 3 ppm
Chloride (Cl)	≤ 0.2 ppm	< 0.2 ppm
Nitrate (NO_3)	≤ 2 ppm	< 2 ppm
Phosphate (PO_4)	≤ 1 ppm	1 ppm
Sulfate (SO_4)	≤ 3 ppm	< 3 ppm
Trace Impurities - Aluminum (Al)	≤ 70.0 ppb	< 5.0 ppb
Arsenic and Antimony (as As)	≤ 10.0 ppb	< 10.0 ppb
Trace Impurities - Barium (Ba)	≤ 20.0 ppb	< 1.0 ppb
Trace Impurities - Beryllium (Be)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Bismuth (Bi)	≤ 20.0 ppb	< 10.0 ppb
Trace Impurities - Boron (B)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities - Cadmium (Cd)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Calcium (Ca)	≤ 50.0 ppb	< 1.0 ppb
Trace Impurities - Chromium (Cr)	≤ 20.0 ppb	1.5 ppb
Trace Impurities - Cobalt (Co)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Copper (Cu)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Gallium (Ga)	≤ 20.0 ppb	< 1.0 ppb
Trace Impurities - Germanium (Ge)	≤ 10.0 ppb	< 10.0 ppb
Trace Impurities - Gold (Au)	≤ 10.0 ppb	< 5.0 ppb
Heavy Metals (as Pb)	≤ 500.0 ppb	< 250.0 ppb
Trace Impurities - Iron (Fe)	≤ 50.0 ppb	4.6 ppb
Trace Impurities - Lead (Pb)	≤ 10.0 ppb	< 10.0 ppb
Trace Impurities - Lithium (Li)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Magnesium (Mg)	≤ 10.0 ppb	< 1.0 ppb

>>> Continued on page 2 >>>

R -> 2/13/25

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Certified Reference Material CRM

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CERTIFIED WEIGHT REPORT:

M 6171

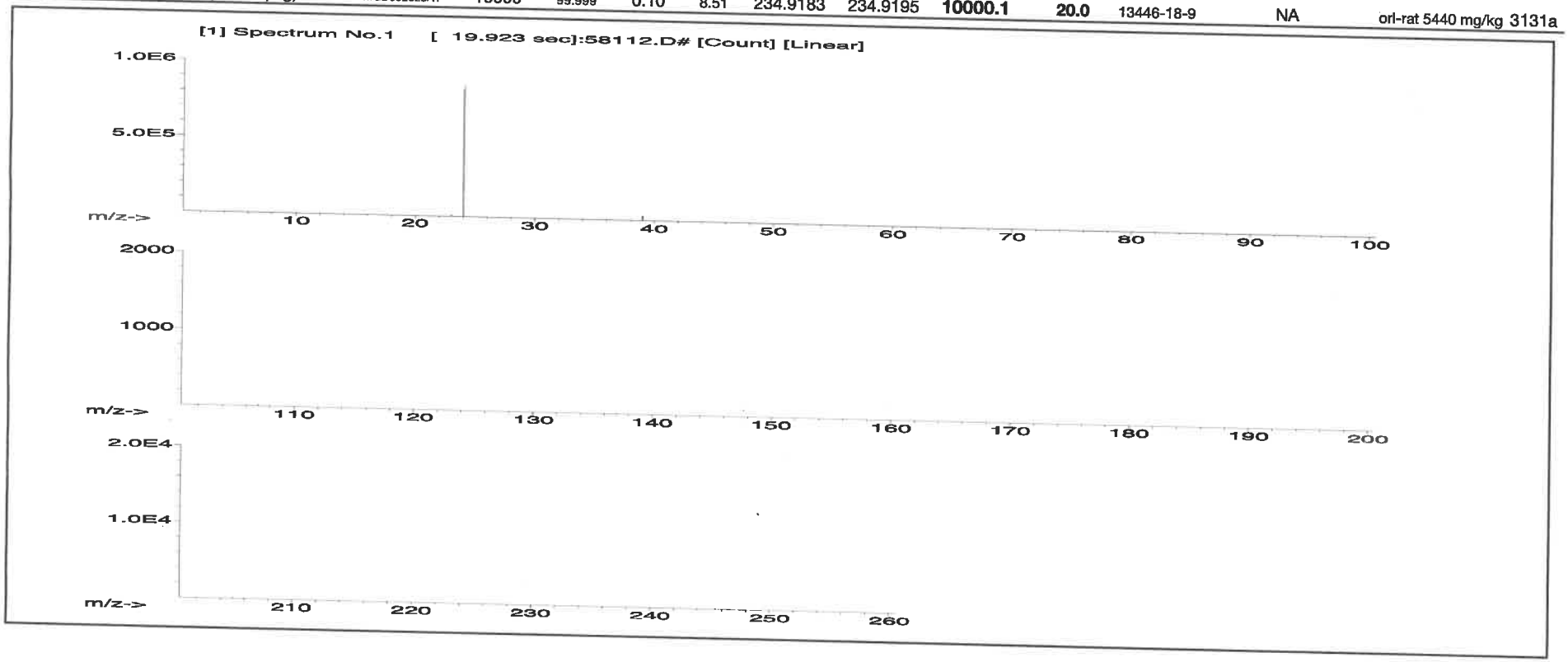
Part Number: 58112
Lot Number: 011525
Description: Magnesium (Mg)

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).

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Certificate of Analysis

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inorganicventures.com

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

M6174
R-> 5/5/24

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:	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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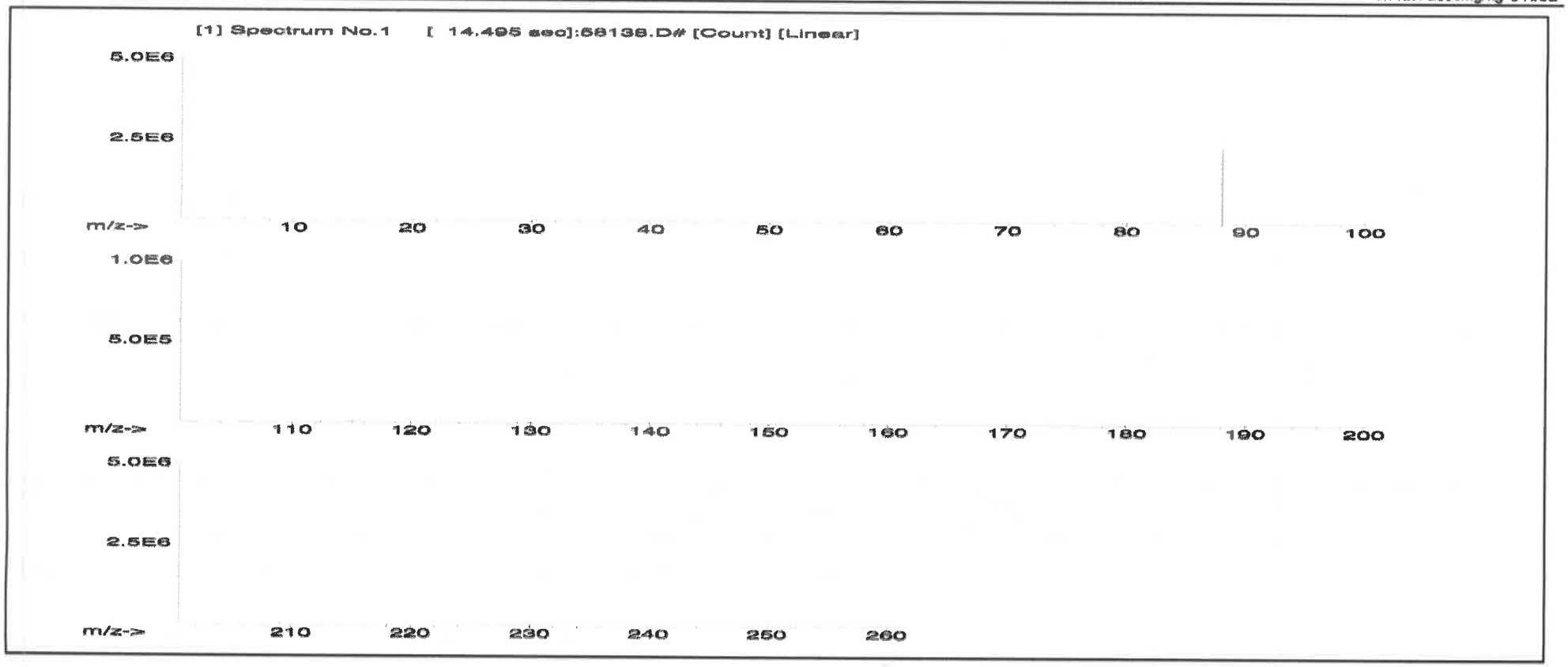
CERTIFIED WEIGHT REPORT:

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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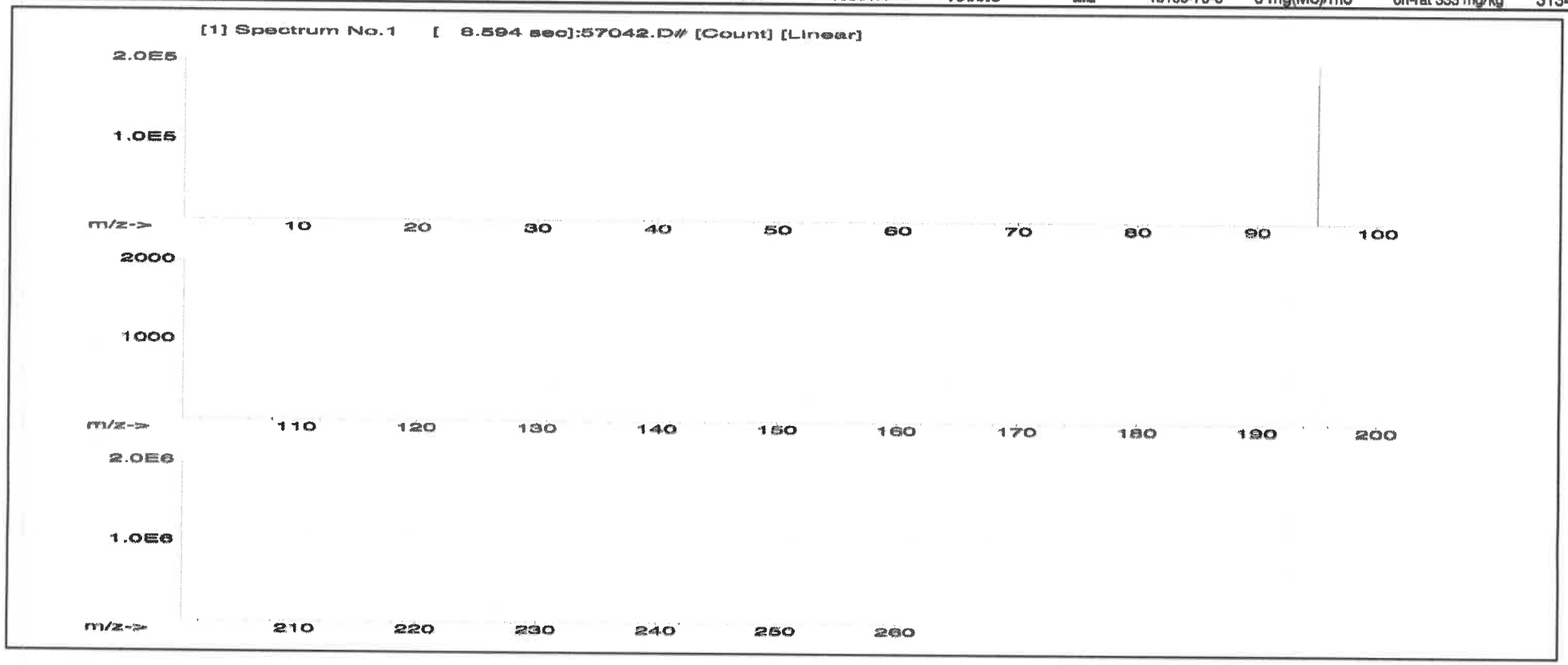
CERTIFIED WEIGHT REPORT:

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

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>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			

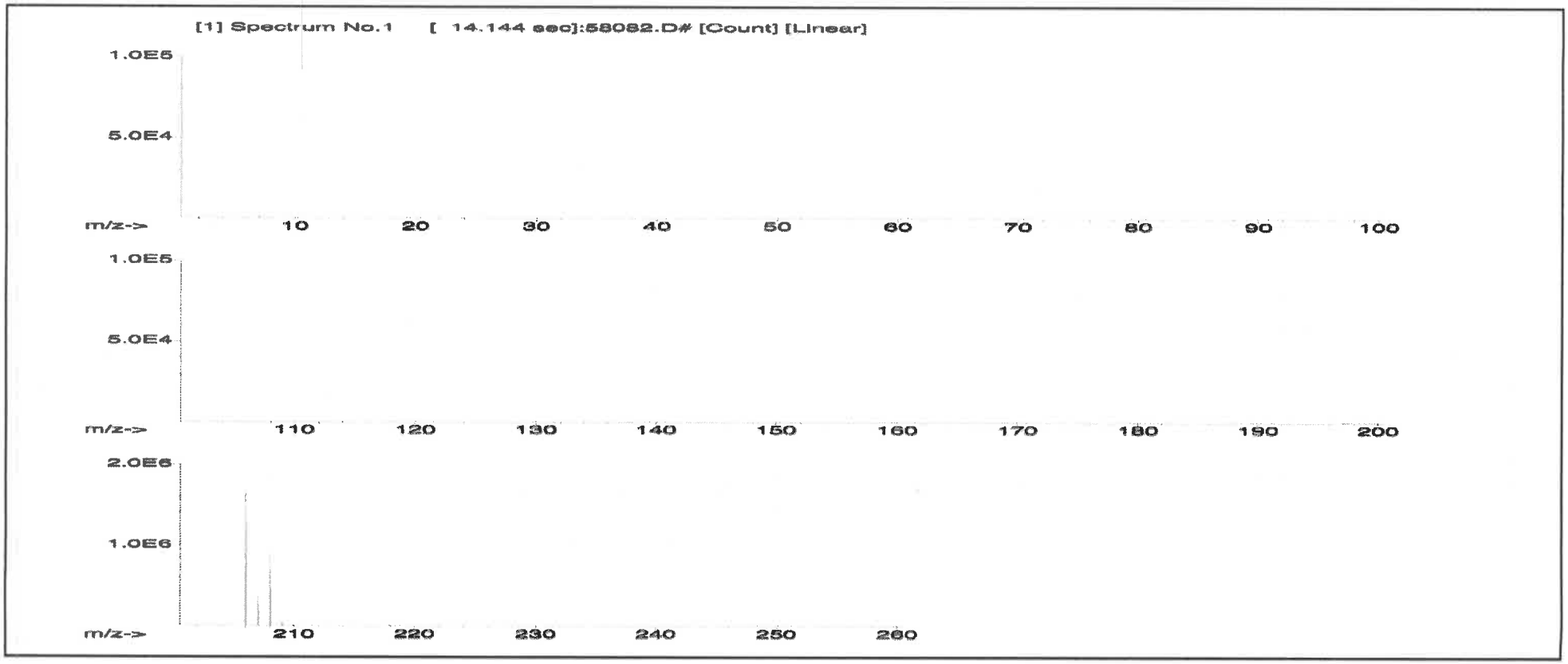
Giovanni Esposito

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).

INORGANIC VENTURES
Refine your results. Redefine your industry.

Certificate of Analysis

300 Technology Drive
Christiansburg, VA 24073 USA
inorganicventures.com

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

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

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.

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.

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

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

M6200
R.0 → 08/25/25

avantor™ | J.T.Baker®

Material No.: 9530-33
Batch No.: 24D1562005
Manufactured Date: 2024-03-18
Retest Date: 2029-03-17
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
ACS – Assay (as HCl) (by acid-base titrn)	36.5 – 38.0 %	37.6 %
ACS – Color (APHA)	≤ 10	5
ACS – Residue after Ignition	≤ 3 ppm	< 1 ppm
ACS – Specific Gravity at 60°/60°F	1.185 – 1.192	1.192
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	< 5.0 ppb
Arsenic and Antimony (as As)	≤ 5.0 ppb	< 3.0 ppb
Trace Impurities – Barium (Ba)	≤ 1.0 ppb	< 1.0 ppb
Trace Impurities – Beryllium (Be)	≤ 1.0 ppb	< 1.0 ppb
Trace Impurities – Bismuth (Bi)	≤ 10.0 ppb	< 10.0 ppb
Trace Impurities – Boron (B)	≤ 20.0 ppb	2.2 ppb
Trace Impurities – Cadmium (Cd)	≤ 1.0 ppb	< 1.0 ppb
Trace Impurities – Calcium (Ca)	≤ 50.0 ppb	31.0 ppb
Trace Impurities – Chromium (Cr)	≤ 1.0 ppb	0.5 ppb
Trace Impurities – Cobalt (Co)	≤ 1.0 ppb	0.2 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	< 0.2 ppb
Heavy Metals (as Pb)	≤ 100 ppb	< 50 ppb
Trace Impurities – Iron (Fe)	≤ 15 ppb	3 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.: 24D1562005

Test	Specification	Result
Trace Impurities – Lead (Pb)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities – Lithium (Li)	≤ 1.0 ppb	< 0.1 ppb
Trace Impurities – Magnesium (Mg)	≤ 10.0 ppb	2.2 ppb
Trace Impurities – Manganese (Mn)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities – Mercury (Hg)	≤ 0.5 ppb	< 0.1 ppb
Trace Impurities – Molybdenum (Mo)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities – Nickel (Ni)	≤ 4.0 ppb	0.2 ppb
Trace Impurities – Niobium (Nb)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities – Potassium (K)	≤ 9.0 ppb	< 1.0 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	< 0.3 ppb
Trace Impurities – Sodium (Na)	≤ 100.0 ppb	2.0 ppb
Trace Impurities – Strontium (Sr)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities – Tantalum (Ta)	≤ 1.0 ppb	< 0.9 ppb
Trace Impurities – Thallium (Tl)	≤ 5.0 ppb	< 2.0 ppb
Trace Impurities – Tin (Sn)	≤ 5.0 ppb	< 0.4 ppb
Trace Impurities – Titanium (Ti)	≤ 1.0 ppb	0.2 ppb
Trace Impurities – Vanadium (V)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities – Zinc (Zn)	≤ 5.0 ppb	< 0.2 ppb
Trace Impurities – Zirconium (Zr)	≤ 1.0 ppb	< 0.1 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.: 24D1562005

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

Jamie Croak
Director Quality Operations, Bioscience Production

INORGANIC VENTURES
Refine your results. Redefine your industry.

Certificate of Analysis

300 Technology Drive
Christiansburg, VA 24073 USA
inorganicventures.com

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

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

R - 7/20/23
M6201
M6202
M6203
M6204

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

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 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

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300 Technology Drive
Christiansburg, VA 24073 USA
inorganicventures.com

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1.0 ACCREDITATION / REGISTRATION

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ACCREDITED Testing Laboratory Certificate 863.01

ACCREDITED Reference Material Producer Certificate 863.02

2.0 PRODUCT DESCRIPTION

Product Code:	Multi Analyte Custom Grade Solution
Catalog Number:	WW-LFS-1
Lot Number:	W2-MEB752149
Matrix:	5% (v/v) HNO3

R → 7/20/23

M6209
M6210
M6211
M6212

Value / Analyte(s):		
	1 000 µg/mL ea: Potassium,	
	600 µg/mL ea: Phosphorus,	
	300 µg/mL ea: Sodium,	Iron,
	200 µg/mL ea: Magnesium, Cerium, Thallium,	Aluminum, Selenium,
	100 µg/mL ea: Lead,	Calcium,
	80 µg/mL ea: Arsenic,	
	70 µg/mL ea: Mercury,	
	50 µg/mL ea: Nickel,	
	40 µg/mL ea: Chromium,	
	30 µg/mL ea: Copper, Vanadium,	Boron,
	20 µg/mL ea: Zinc, Barium, Cadmium, Manganese,	Strontium, Beryllium, Cobalt, Lithium,
	7.5 µg/mL ea: Silver	

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
Aluminum, Al	200.2 ± 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

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

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

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

M6027

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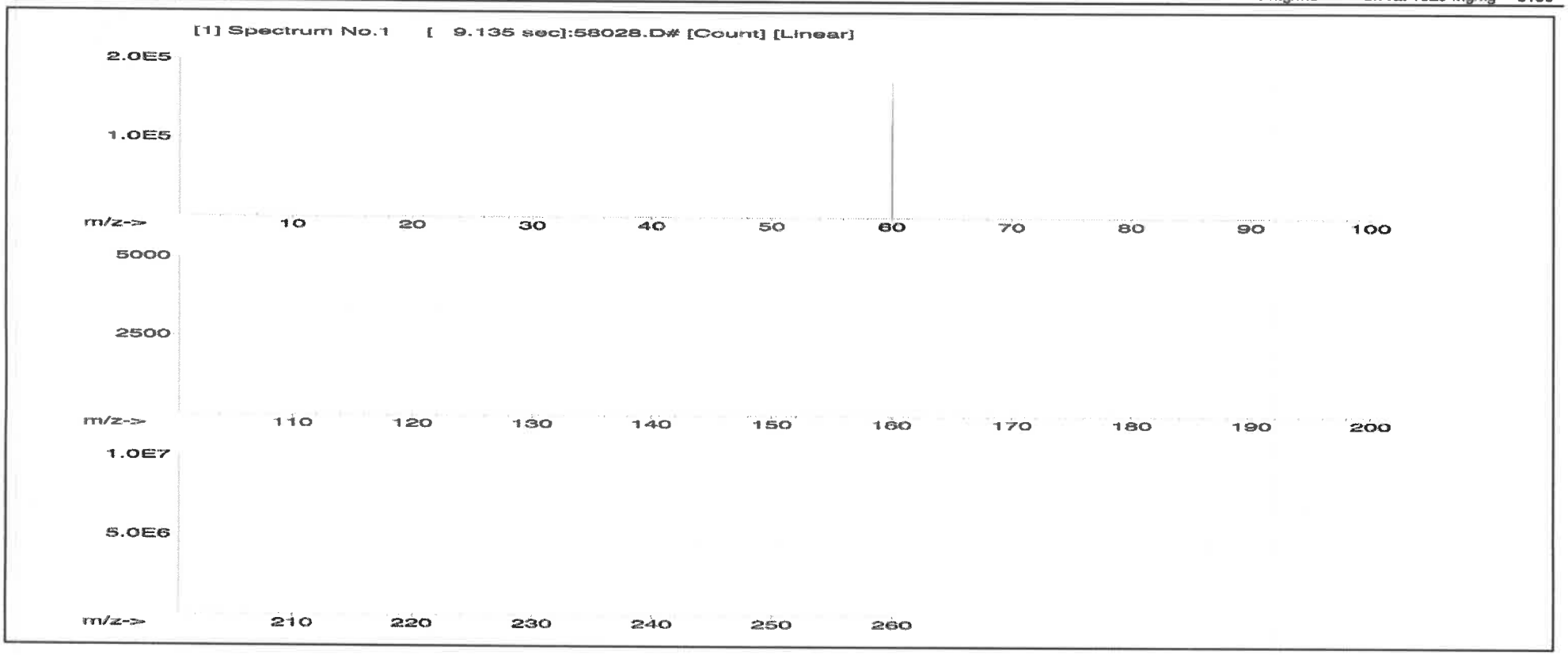
R 8/05/24

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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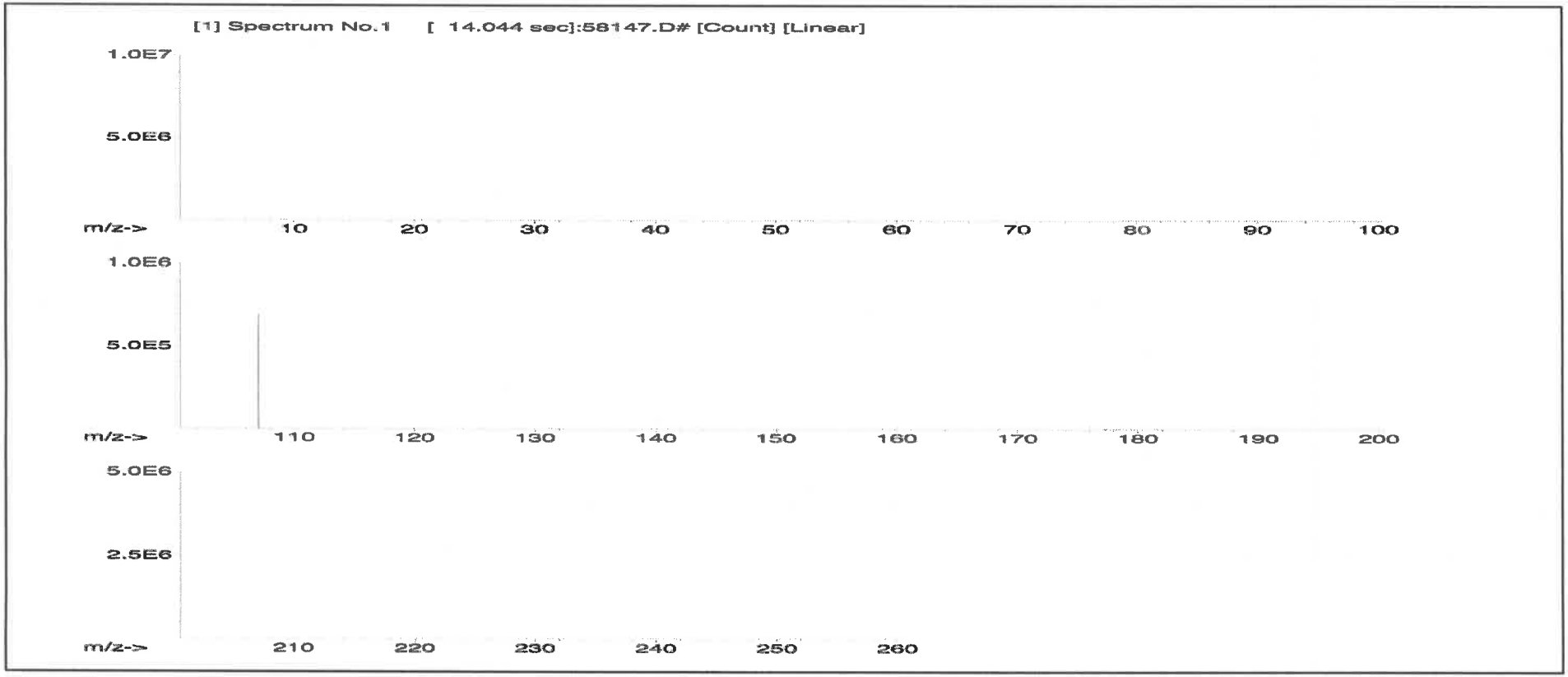
CERTIFIED WEIGHT REPORT:

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:

* 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).

opened : 3/24/25

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Certified Reference Material CRM

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AR-1539 Certificate Number
https://Absolutestandards.com

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

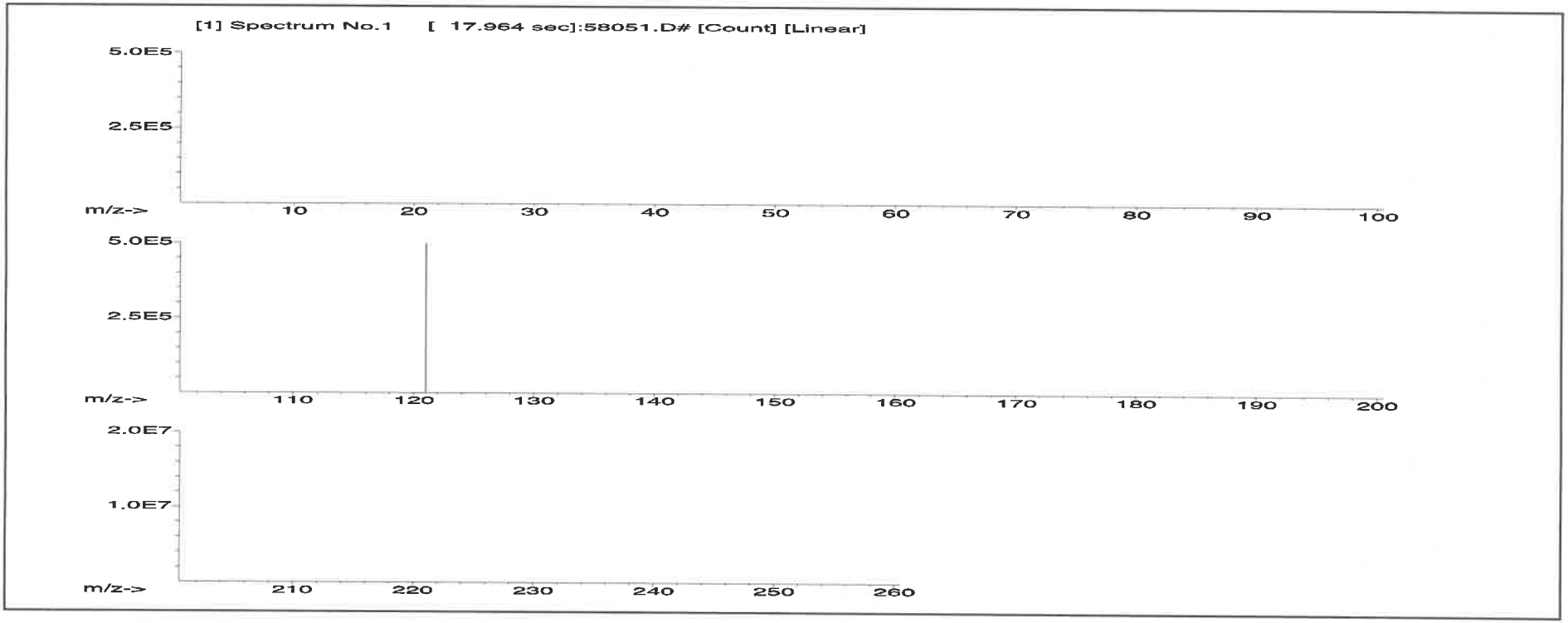
Giovanni Esposito

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):

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

(T) = Target analyte

Physical Characterization:

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

Certified by:

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

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Certificate of Analysis

R: 8/5/24 M6019

300 Technology Drive
Christiansburg, VA 24073 USA
inorganicventures.com

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

1.0 ACCREDITATION / REGISTRATION

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

ACCREDITED Testing Laboratory Certificate 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		

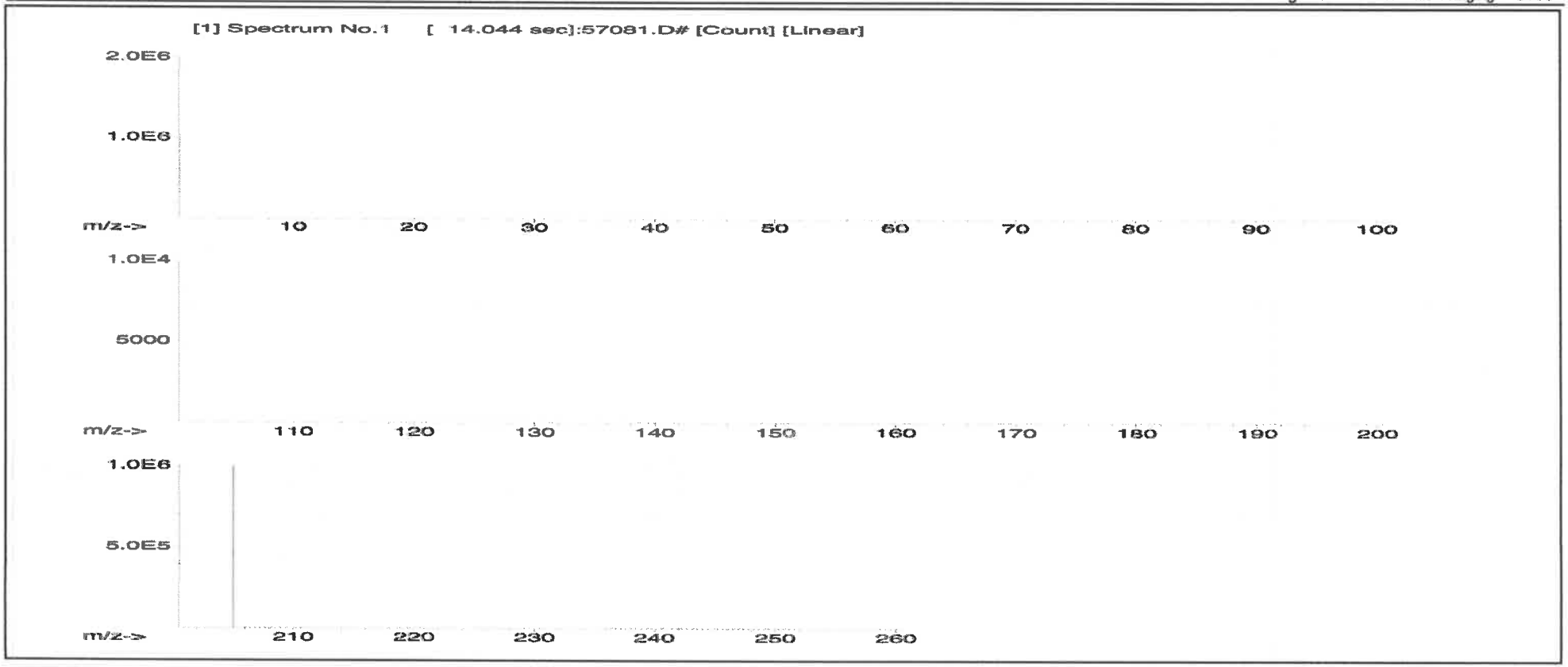
Aleah O'Brady

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	

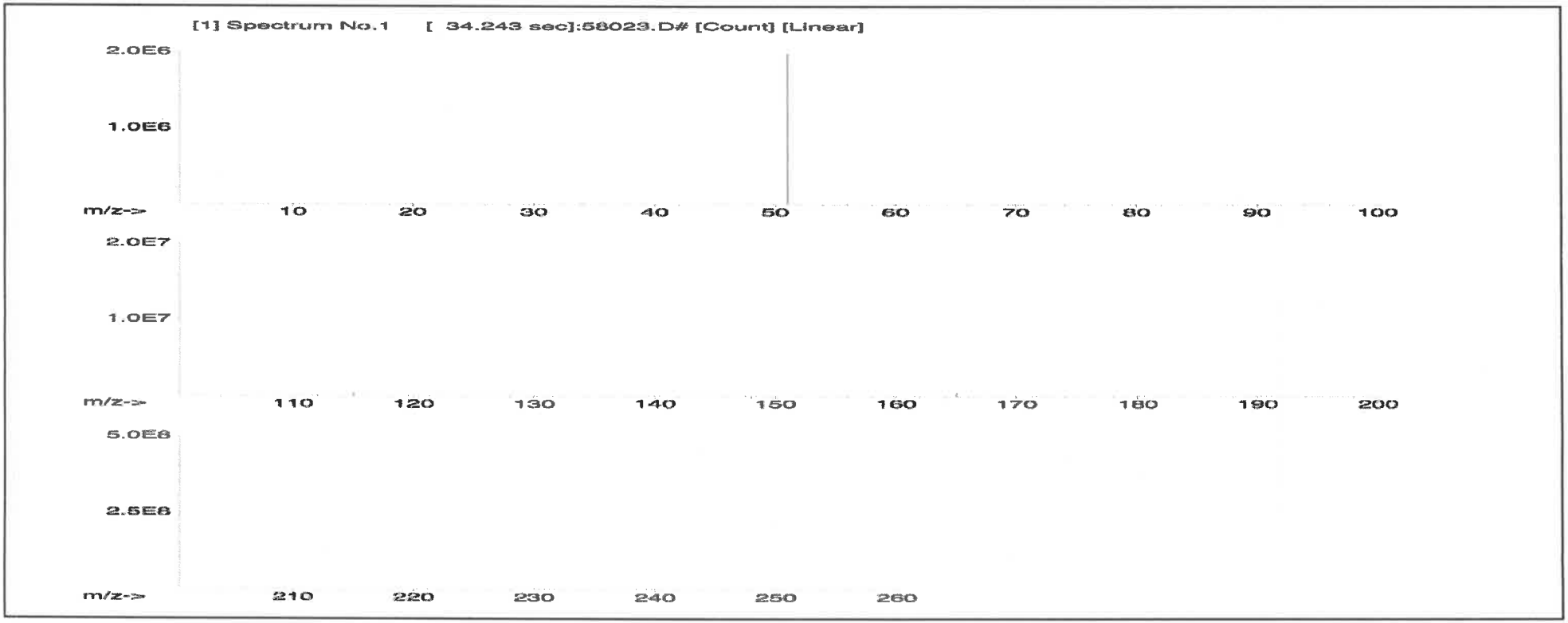
Aleah O'Brady

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.
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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).

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. Q3341
COC Number 2045181

CLIENT INFORMATION (REPORT TO BE SENT TO:)

COMPANY: Kleinfelder
ADDRESS: 180 Sheree Blvd.
CITY Exton STATE: PA ZIP:
ATTENTION: Mark Warchol
PHONE: FAX:

CLIENT PROJECT INFORMATION

PROJECT NAME: Webster School
PROJECT NO.: LOCATION:
PROJECT MANAGER: Mark Warchol
e-mail:
PHONE: FAX:

CLIENT BILLING INFORMATION

BILL TO: Kleinfelder PO#:
ADDRESS:
CITY Framingham STATE: MA ZIP:
ATTENTION: PHONE:

DATA TURNAROUND INFORMATION

FAX (RUSH) 5 DAYS*
HARDCOPY (DATA PACKAGE): DAYS*
EDD: DAYS*
*TO BE APPROVED BY CHEMTECH
STANDARD HARDCOPY TURNAROUND TIME IS 10 BUSINESS

DATA DELIVERABLE INFORMATION

- ☐ Level 1 (Results Only)
- ☐ Level 4 (QC + Full Raw Data)
- ☒ Level 2 (Results + QC)
- ☐ NJ Reduced ☐ US EPA CLP
- ☐ Level 3 (Results + QC + Raw Data)
- ☐ NYS ASP A ☐ NYS ASP B
- ☐ Other
- ☐ EDD FORMAT

ANALYSIS

1: PADEP Clean Fill
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 1	2	3	4	5	6	7	8	9	COMMENTS
1.	C-1	soil	X		10/13/25	9:45	3	X									
2.	C-2	↓	X		↓	10:10	3	X									
3.	C-3	↓	X		↓	10:35	3	X									
4.																	
5.																	
6.																	
7.																	
8.																	
9.																	
10.																	

← Specify Preservatives
A-HCl D-NaOH
B-HNO3 E-ICE
C-H2SO4 F-OTHER

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:
1. Mark Warchol	10/13/25 12:30	1.
2.	10/14/25 12:00	2.
3.		3.

Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☐ COOLER TEMP 3.9°C °C
Comments: PADEP Clean Fill Parameters
IR Gun #1

Page ___ of
CLIENT: ☐ Hand Delivered ☐ Other
Shipment Complete ☐ YES ☐ NO

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WHITE - ALLIANCE COPY FOR RETURN TO CLIENT YELLOW - ALLIANCE COPY PINK - SAMPLER COPY

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

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

LOGIN REPORT/SAMPLE TRANSFER

Order ID :	Q3341 POWE02	**Order Date :**	10/14/2025 12:11:00 PM	**Project Mgr :**	
Client Name :	Kleinfelder	**Project Name :**	Webster School	**Report Type :**	Results+QC
Client Contact :	Mark Warchol	**Receive DateTime :**	10/14/2025 12:00:00 PM	**EDD Type :**	EXCEL NOCLEANUP
Invoice Name :	Kleinfelder	**Purchase Order :**		**Hard Copy Date :**	
Invoice Contact :	Mark Warchol			**Date Signoff :**	

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
Q3341-01	C-1	Solid	10/13/2025	09:45					
					VOCMS Group1		8260D		5 Bus. Days
Q3341-02	C-2	Solid	10/13/2025	10:10					
					VOCMS Group1		8260D		5 Bus. Days
Q3341-03	C-3	Solid	10/13/2025	10:35					
					VOCMS Group1		8260D		5 Bus. Days

Relinguished By : _____
Date / Time : 10/14/25 1230

Received By : _____
Date / Time : _____

10/14/25 12:30

Storage Area : VOA Refridgerator Room