SDG COVER PAGE

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011

Lab Code: ACE Case No.: 51879 MA No.: SDG No.: MBHM62

SOW No. : SFAM01.1

EPA Sample No.	Lab Sample Id	Analysis Method ICP-AES	ICP-MS	Mercury	Cyanide
MBHM62	P5122-01	X			
MBHM63	P5122-02	X			
MBHM64	P5122-03	X			
MBHM65	P5122-04	X			
MBHM66	P5122-05	X			
MBHM67	P5122-06	X			
MBHM68	P5122-07	X			
MBHM69	P5122-08	X			
MBHMC6	P5122-09	X			
MBHMC7	P5122-10	X			
MBHMC8	P5122-11	X			
MBHMC9	P5122-12	X			
MBHMC9D	P5122-13	X			
MBHMC9S	P5122-14	X			
MBHMD0	P5122-15	X			
MBHMD1	P5122-16	X			
MBHMD2	P5122-17	X			
MBHMD3	P5122-18	X			
MBHMD4	P5122-19	X			

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the SDG Narrative. All edits and manual integrations have been peer-reviewed. Release of the data contained in this hardcopy Complete SDG File and in the electronic data submitted has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: Name:

Date: Title:

Page 3 of 4

USEPA CLP COC (LAB COPY)

DateShipped: 12/4/2024
CarrierName: FedEx
AirbillNo: 7704 9476 2339

68HERH20D0011

CHAIN OF CUSTODY RECORD

Case #: 51879
Cooler #: 1

No: 2-120424-101122-0046
Lab: Alliance Technical Group LLC
Lab Contact: Mohammad Ahmed
Lab Phone: 908-789-8900

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	For Lab Use Only
P133-SB-08-Z30-36	MBHM62	Soil/		ICP-AES(35)	1880 (Wet ice < 6 C) (1)	P133-SB-08	11/26/2024 10:50	
P133-SB-10-Z00-02	MBHM63	Soil/		ICP-AES(35)	1888 (Wet ice < 6 C) (1)	P133-SB-10	11/26/2024 12:11	
P133-SB-10-Z02-06	MBHM64	Soil/		ICP-AES(35)	1889 (Wet ice < 6 C) (1)	P133-SB-10	11/26/2024 12:11	
P133-SB-10-Z06-12	MBHM65	Soil/		ICP-AES(35)	1950 (Wet ice < 6 C) (1)	P133-SB-10	11/26/2024 12:11	
P133-SB-10-Z12-18	MBHM66	Soil/		ICP-AES(35)	1951 (Wet ice < 6 C) (1)	P133-SB-10	11/26/2024 12:11	
P133-SB-10-Z18-24	MBHM67	Soil/		ICP-AES(35)	1952 (Wet ice < 6 C) (1)	P133-SB-10	11/26/2024 12:11	
P133-SB-10-Z24-30	MBHM68	Soil/		ICP-AES(35)	1953 (Wet ice < 6 C) (1)	P133-SB-10	11/26/2024 12:11	
P133-SB-10-Z30-36	MBHM69	Soil/		ICP-AES(35)	1954 (Wet ice < 6 C) (1)	P133-SB-10	11/26/2024 12:11	
P133-SB-12-Z00-02	MBHMC6	Soil/		ICP-AES(35)	5540 (Wet ice < 6 C) (1)	P133-SB-12	11/26/2024 12:30	
P133-SB-12-Z02-06	MBHMC7	Soil/		ICP-AES(35)	5541 (Wet ice < 6 C) (1)	P133-SB-12	11/26/2024 12:30	

Special Instructions: Samples MBHM51 and MBHMC9 are MS/MSDs. Samples MBHM57 and MBHM49 have limited sample mass.

Shipment for Case Complete? N

Samples Transferred From Chain of Custody #

Analysis Key: ICP-AES=CLP Routine - SFAM01.1/LSASD SOP C-109 Metals

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
1 Cooler	[signature] CDSP	12/04/24 16:05	[signature]	1010 12.5.24	IR Gun #1 2.0°C
		N/A			Custody Seal Intact
		12/04/24			Temp Blank present

2

68HERH20D0011

SDG # MBHM62

USEPA CLP COC (LAB COPY)

DateShipped: 12/4/2024

CarrierName: FedEx

AirbillNo: 7704 9476 2339

CHAIN OF CUSTODY RECORD

Case #: 51879

Cooler #: 1

No: 2-120424-101122-0046

Lab: Alliance Technical Group LLC

Lab Contact: Mohammad Ahmed

Lab Phone: 908-789-8900

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	For Lab Use Only
P133-SB-12-Z06-12	MBHMC8	Soil/		ICP-AES(35)	5542 (Wet ice < 6 C) (1)	P133-SB-12	11/26/2024 12:30	
P133-SB-12-Z12-18	MBHMC9	Soil/		ICP-AES(35)	5543 (Wet ice < 6 C) (1)	P133-SB-12	11/26/2024 12:30	Qe
P133-SB-12-Z18-24	MBHMD0	Soil/		ICP-AES(35)	5544 (Wet ice < 6 C) (1)	P133-SB-12	11/26/2024 12:30	
P133-SB-12-Z24-30	MBHMD1	Soil/		ICP-AES(35)	5545 (Wet ice < 6 C) (1)	P133-SB-12	11/26/2024 12:30	
P133-SB-12-Z30-36	MBHMD2	Soil/		ICP-AES(35)	5546 (Wet ice < 6 C) (1)	P133-SB-12	11/26/2024 12:30	
P133-SB-08-Z18-24-FD	MBHMD3	Soil/		ICP-AES(35)	5547 (Wet ice < 6 C) (1)	P133-SB-08	11/26/2024 10:50	
P133-SB-10-Z12-18-FD	MBHMD4	Soil/		ICP-AES(35)	5548 (Wet ice < 6 C) (1)	P133-SB-10	11/26/2024 12:11	
				N/A				
				12/04/24				

Sample(s) to be used for Lab QC: P133-SB-12-Z12-18 Tag 5543 - Special Instructions: Samples MBHM51 and MBHMC9 are MS/MSDs. Samples MBHM57 and MBHM49 have limited sample mass.

Shipment for Case Complete? N

Samples Transferred From Chain of Custody #

Analysis Key: ICP-AES=CLP Routine - SFAM01.1/LSASD SOP C-109 Metals

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
1 Cooler	WSP	12/04/24 16:05		1010 12-5-24	TR Blank 1 2.0°C
	N/A	12/04/24			Custody Seal Intact
					Temp Blank present

3

FORM DC-1

SAMPLE LOG-IN SHEET

Lab Name : Alliance Technical Group, LLC		Page 1 of 1
Received By (Print Name)		Log-in Date **12/5/2024**
Received By (Signature)		
Case Number 51879	SDG No. MBHM62	MA No. N/A

Remarks:	
1. Custody Seal (s)	Present, Intact
2. Custody Seal Nos.	n/a
3. Traffic Reports/Chain Of Custody Records	Present
4. Airbill	Present
5. Airbill No. and Shipping Container ID No.	770494762339 1
6. Shipping Container Temperature Indicator Bottle	Present
7. Shipping Container Temperature	2.0 Degree C
8. Sample Condition	Intact
9. Sample Tags Sample Tag Numbers	Absent Listed on Traffic Report
10. Does information on Traffic Reports/Chain of Custody Records and Sample Tags agree ?	Yes
11. Date Received at Lab	12/05/2024
12.Time Received	10:10

	EPA Sample #	Aqueous/ Water Sample pH	Corresponding		Remarks: Condition of Sample Shipment, etc.
			Sample Tag #	Assigned Lab #	
1	MBHM62	N/A	1880	P5122-01	Intact
2	MBHM63	N/A	1888	P5122-02	Intact
3	MBHM64	N/A	1889	P5122-03	Intact
4	MBHM65	N/A	1950	P5122-04	Intact
5	MBHM66	N/A	1951	P5122-05	Intact
6	MBHM67	N/A	1952	P5122-06	Intact
7	MBHM68	N/A	1953	P5122-07	Intact
8	MBHM69	N/A	1954	P5122-08	Intact
9	MBHMC6	N/A	5540	P5122-09	Intact
10	MBHMC7	N/A	5541	P5122-10	Intact
11	MBHMC8	N/A	5542	P5122-11	Intact
12	MBHMC9	N/A	5543	P5122-12	Intact
13	MBHMC9D	N/A	5543	P5122-13	Intact
14	MBHMC9S	N/A	5543	P5122-14	Intact
15	MBHMD0	N/A	5544	P5122-15	Intact
16	MBHMD1	N/A	5545	P5122-16	Intact
17	MBHMD2	N/A	5546	P5122-17	Intact
18	MBHMD3	N/A	5547	P5122-18	Intact
19	MBHMD4	N/A	5548	P5122-19	Intact
20	N/A	N/A	N/A	N/A	N/A
21	N/A	N/A	N/A	N/A	N/A
22	N/A	N/A	N/A	N/A	N/A
23	N/A	N/A	N/A	N/A	N/A

* Contact SMO and attach record of resolution

Reviewed By		Logbook No.	N/A
Date	12/5/24	Logbook Page No.	N/A

FORM DC-2
COMPLETE SDG FILE (CSF) INVENTORY SHEET

LAB NAME	**Alliance Technical Group, LLC**		
LAB CODE	**ACE**		
CONTRACT NO.	**68HERH20D0011**		
CASE NO.	**51879**	SDG NO.	**MBHM62**
MA NO.		SOW NO.	**SFAM01.1**

All documents delivered in the Complete SDG File must be original documents where possible. (Reference - Exhibit B Section 2.4)

	PAGE NOs: FROM	PAGE NOs: TO	CHECK LAB	CHECK REGION
1. SDG Cover Page	1	1	✓	
2. Traffic Report/Chain of Custody Record(s)	2	3	✓	
3. Sample Log-In Sheet (DC-1)	4	4	✓	
4. CSF Inventory Sheet (DC-2)	5	7	✓	
5. SDG Narrative	8	10	✓	
6. Communication Logs	NA	NA	✓	
7. Percent Solids Log	11	12	✓	
Analysis Forms and Data (ICP-AES)				
8. Sample Analysis Data Forms (1A-OR, 1B-OR, and 1-IN) for each sample or sample analysis, laboratory QC as applicable	13	29	✓	
9. Instrument raw data by instrument in analysis order	30	599	✓	
Other Data				
10. Standard and Reagent Preparation Logs	600	737	✓	
11. Original Preparation and Cleanup forms or copies of Preparation and Cleanup Logbooks	738	739	✓	
12. Original Analysis or Instrument Run forms or copies of Analysis or Instrument Logbooks	740	756	✓	
13. Performance Evaluation (PE)/Proficiency Testing (PT) Sample Instructions	NA	NA	✓	
14. Extraction Logs for TCLP and SPLP	NA	NA	✓	
15. Raw GPC Data	NA	NA	✓	
16. Raw Florisil Data	NA	NA	✓	
Analysis Forms and Data (ICP-MS)				
17. Sample Analysis Data Forms (1A-OR, 1B-OR, and 1-IN) for each sample or sample analysis, laboratory QC as applicable	NA	NA	✓	
18. Instrument raw data by instrument in analysis order	NA	NA	✓	
Other Data				
19. Standard and Reagent Preparation Logs	NA	NA	✓	
20. Original Preparation and Cleanup forms or copies of Preparation and Cleanup Logbooks	NA	NA	✓	
21. Original Analysis or Instrument Run forms or copies of Analysis or Instrument Logbooks	NA	NA	✓	
22. Performance Evaluation (PE)/Proficiency Testing (PT) Sample Instructions	NA	NA	✓	

	PAGE NOs: FROM	TO	CHECK LAB	REGION
23. Extraction Logs for TCLP and SPLP	NA	NA	✓	
24. Raw GPC Data	NA	NA	✓	
25. Raw Florisil Data	NA	NA	✓	
Analysis Forms and Data (Mercury)				
26. Sample Analysis Data Forms (1A-OR, 1B-OR, and 1-IN) for each sample or sample analysis, laboratory QC as applicable	NA	NA	✓	
27. Instrument raw data by instrument in analysis order	NA	NA	✓	
Other Data				
28. Standard and Reagent Preparation Logs	NA	NA	✓	
29. Original Preparation and Cleanup forms or copies of Preparation and Cleanup Logbooks	NA	NA	✓	
30. Original Analysis or Instrument Run forms or copies of Analysis or Instrument Logbooks	NA	NA	✓	
31. Performance Evaluation (PE)/Proficiency Testing (PT) Sample Instructions	NA	NA	✓	
32. Extraction Logs for TCLP and SPLP	NA	NA	✓	
33. Raw GPC Data	NA	NA	✓	
34. Raw Florisil Data	NA	NA	✓	
Analysis Forms and Data (Cyanide)				
35. Sample Analysis Data Forms (1A-OR, 1B-OR, and 1-IN) for each sample or sample analysis, laboratory QC as applicable	NA	NA	✓	
36. Instrument raw data by instrument in analysis order	NA	NA	✓	
Other Data				
37. Standard and Reagent Preparation Logs	NA	NA	✓	
38. Original Preparation and Cleanup forms or copies of Preparation and Cleanup Logbooks	NA	NA	✓	
39. Original Analysis or Instrument Run forms or copies of Analysis or Instrument Logbooks	NA	NA	✓	
40. Performance Evaluation (PE)/Proficiency Testing (PT) Sample Instructions	NA	NA	✓	
41. Extraction Logs for TCLP and SPLP	NA	NA	✓	
42. Raw GPC Data	NA	NA	✓	
43. Raw Florisil Data	NA	NA	✓	

	PAGE NOs: FROM	TO	CHECK LAB	REGION
Additional				
44. EPA Shipping/Receiving Documents				
Airbill (No. of Shipments 1)	757	757	✓	
Sample Tags	NA	NA	✓	
Sample Log-In Sheet (Lab)	758	759	✓	
45. Misc. Shipping/Receiving Records (list all individual records)				
	NA	NA	✓	
46. Internal Lab Sample Transfer Records and Tracking Sheets (describe or list)				
	760	760	✓	
47. Other Records and related Communication Logs (describe or list)				
	NA	NA	✓	

48. Comments:

Completed by:
(CLP Lab) _____ (Signature) Nimisha Pandya, Document Control Officer (Print Name & Title) _____ (Date)

Audited by:
(EPA) _____ (Signature) _____ (Print Name & Title) _____ (Date)

284 Sheffield Street
Mountainside, NJ 07092

SDG NARRATIVE

USEPA
SDG # MBHM62
CASE # 51879
CONTRACT # 68HERH20D0011
SOW# SFAM01.1
LAB NAME: Alliance Technical Group, LLC
LAB CODE: ACE
LAB ORDER ID # P5122

A. Number of Samples and Date of Receipt

17 Soil sample were delivered to the laboratory intact on 12/05/2024.

B. Parameters

Test requested for Metals CLP FULL = Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Vanadium, Zinc.

C. Cooler Temp

Indicator Bottle**: Presence/**Absence

Cooler: 2.0^{o}C

D. Detail Documentation (related to Sample Handling Shipping, Analytical Problem, Temp of Cooler etc):

Issue: A "P" or "M" prefix was listed at the beginning of a CLP sample ID.

E. Corrective Action taken for above:

Resolution: To maintain COC integrity, ASB requests no changes to the Sample IDs. The laboratory will note the issue in the SDG Narrative and proceed with the analysis of the samples.

F. Analytical Techniques:

All analyses were based on CLP Methodology by method SFAM01.1.

Inter Element correction factors (IECs) are determined annually and correction factor are applied during ICP-AES analysis.

G. Calculation:

Calculation for ICP-AES Soil Sample:

Conversion of Results from mg/L or ppm to mg/kg (Dry Weight Basis):

$$\text{Concentration (mg/kg)} = C \times \frac{Vf}{W \times S} \times DF$$

Where,

C = Instrument value in ppm (The average of all replicate exposures)
Vf = Final digestion volume (mL)
W = Initial aliquot amount (g) (Sample amount taken in prep)
S = % Solids / 100 (Fraction of Percent Solids)
DF = Dilution Factor

Example Calculation For Sample MBHM62 For Antimony:

If C = 0.0335539 ppm
Vf = 100 ml
W = 1.24 g
S = 0.872(87.2/100)
DF = 1

$$\text{Concentration (mg/kg)} = 0.0335539 \times \frac{100}{1.24 \times 0.872} \times 1$$

$$= 3.103164 \text{ mg/kg}$$

= 3.1 mg/kg (Reported Result with Signification

H. QA/ QC

Calibrations met requirements. Interference check met requirements. Blank analyses did not indicate any presence of contamination. Laboratory Control sample was within control limits. Spike sample did meet requirements except for Silver, Thallium. Duplicate sample did meet requirements. Serial Dilution did meet requirements except for Cobalt.

Chemical or physical interference effect was suspected and the data for all affected analytes in the sample received and associated with this serial dilution were flagged.

284 Sheffield Street
Mountainside, NJ 07092

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

Signature_____ Name: Nimisha Pandya

Date _____ Title: Document Control Officer

PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 12/9/2024

OVENTEMP IN Celsius(°C): 107
Time IN: 14:25
In Date: 12/06/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 08:00
Out Date: 12/07/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID- OVEN

QC: LB133789

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
P5122-01	MBHM62	1	1.15	8.83	9.98	8.85	87.2	
P5122-02	MBHM63	2	1.16	8.41	9.57	6.5	63.5	
P5122-03	MBHM64	3	1.16	8.68	9.84	7.00	67.3	
P5122-04	MBHM65	4	1.16	8.70	9.86	7.71	75.3	
P5122-05	MBHM66	5	1.15	8.60	9.75	7.54	74.3	
P5122-06	MBHM67	6	1.16	8.46	9.62	7.38	73.5	
P5122-07	MBHM68	7	1.11	8.68	9.79	8.52	85.4	
P5122-08	MBHM69	8	1.13	8.45	9.58	8.65	89.0	
P5122-09	MBHMC6	9	1.15	8.57	9.72	6.91	67.2	
P5122-10	MBHMC7	10	1.15	8.64	9.79	7.58	74.4	
P5122-11	MBHMC8	11	1.16	8.64	9.8	7.93	78.4	
P5122-12	MBHMC9	12	1.17	8.44	9.61	8.05	81.5	
P5122-13	MBHMC9D	13	1.17	8.44	9.61	8.05	81.5	
P5122-14	MBHMC9S	14	1.17	8.44	9.61	8.05	81.5	
P5122-15	MBHMD0	15	1.15	8.80	9.95	7.81	75.7	
P5122-16	MBHMD1	16	1.17	8.81	9.98	8.96	88.4	
P5122-17	MBHMD2	17	1.16	8.64	9.8	4.38	37.3	
P5122-18	MBHMD3	18	1.15	8.50	9.65	7.91	79.5	
P5122-19	MBHMD4	19	1.16	8.62	9.78	7.48	73.3	

$$\% \text{ Solid} = \frac{(C-A) * 100}{(B-A)}$$

WORKLIST(Hardcopy Internal Chain)

VB1337F89

WorkList Name : %1-p5122 **WorkList ID :** 186073 **Department :** Wet-Chemistry **Date :** 12-06-2024 13:01:47

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P5122-01	MBHM62	Solid	Percent Solids	Cool 4 deg C	USEP01	C31	11/26/2024	Chemtech -SO
P5122-02	MBHM63	Solid	Percent Solids	Cool 4 deg C	USEP01	C31	11/26/2024	Chemtech -SO
P5122-03	MBHM64	Solid	Percent Solids	Cool 4 deg C	USEP01	C31	11/26/2024	Chemtech -SO
P5122-04	MBHM65	Solid	Percent Solids	Cool 4 deg C	USEP01	C31	11/26/2024	Chemtech -SO
P5122-05	MBHM66	Solid	Percent Solids	Cool 4 deg C	USEP01	C31	11/26/2024	Chemtech -SO
P5122-06	MBHM67	Solid	Percent Solids	Cool 4 deg C	USEP01	C31	11/26/2024	Chemtech -SO
P5122-07	MBHM68	Solid	Percent Solids	Cool 4 deg C	USEP01	C31	11/26/2024	Chemtech -SO
P5122-08	MBHM69	Solid	Percent Solids	Cool 4 deg C	USEP01	C31	11/26/2024	Chemtech -SO
P5122-09	MBHMC6	Solid	Percent Solids	Cool 4 deg C	USEP01	C31	11/26/2024	Chemtech -SO
P5122-10	MBHMC7	Solid	Percent Solids	Cool 4 deg C	USEP01	C31	11/26/2024	Chemtech -SO
P5122-11	MBHMC8	Solid	Percent Solids	Cool 4 deg C	USEP01	C31	11/26/2024	Chemtech -SO
P5122-12	MBHMC9	Solid	Percent Solids	Cool 4 deg C	USEP01	C31	11/26/2024	Chemtech -SO
P5122-13	MBHMC9D	Solid	Percent Solids	Cool 4 deg C	USEP01	C31	11/26/2024	Chemtech -SO
P5122-14	MBHMC9S	Solid	Percent Solids	Cool 4 deg C	USEP01	C31	11/26/2024	Chemtech -SO
P5122-15	MBHMD0	Solid	Percent Solids	Cool 4 deg C	USEP01	C31	11/26/2024	Chemtech -SO
P5122-16	MBHMD1	Solid	Percent Solids	Cool 4 deg C	USEP01	C31	11/26/2024	Chemtech -SO
P5122-17	MBHMD2	Solid	Percent Solids	Cool 4 deg C	USEP01	C31	11/26/2024	Chemtech -SO
P5122-18	MBHMD3	Solid	Percent Solids	Cool 4 deg C	USEP01	C31	11/26/2024	Chemtech -SO
P5122-19	MBHMD4	Solid	Percent Solids	Cool 4 deg C	USEP01	C31	11/26/2024	Chemtech -SO

12

Date/Time 12/06/24 13:45

Raw Sample Received by: JD WC)

Raw Sample Relinquished by: Jm (SM)

Date/Time 12/06/24 14:30

Raw Sample Received by: Jm (SM)

Raw Sample Relinquished by: JD WC)

EPA SAMPLE NO.

MBHM62

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011

Lab Code: ACE Case No.: 51879 MA No. : SDG No.: MBHM62

Matrix: SOIL Lab Sample ID: P5122-01

% Solids: 87.2 Date Received: 12/05/2024

Analytical Method: ICP_AES

Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7429-90-5	Aluminum	3800		01/06/2025	1707
7440-36-0	Antimony	3.1	J	01/06/2025	1707
7440-38-2	Arsenic	5.8		01/06/2025	1707
7440-39-3	Barium	76		01/06/2025	1707
7440-41-7	Beryllium	0.27	J	01/06/2025	1707
7440-43-9	Cadmium	0.23	J	01/06/2025	1707
7440-70-2	Calcium	60000		01/06/2025	1707
7440-47-3	Chromium	7.8		01/06/2025	1707
7440-48-4	Cobalt	10	*	01/06/2025	1707
7440-50-8	Copper	11		01/06/2025	1707
7439-89-6	Iron	15000		01/06/2025	1707
7439-92-1	Lead	14		01/06/2025	1707
7439-95-4	Magnesium	14000		01/06/2025	1707
7439-96-5	Manganese	2100		01/06/2025	1707
7440-02-0	Nickel	13		01/06/2025	1707
7440-09-7	Potassium	480		01/06/2025	1707
7782-49-2	Selenium	4.5		01/06/2025	1707
7440-22-4	Silver	0.93	U*	01/06/2025	1707
7440-23-5	Sodium	100	J	01/06/2025	1707
7440-28-0	Thallium	1.7	J*	01/06/2025	1707
7440-62-2	Vanadium	11		01/06/2025	1707
7440-66-6	Zinc	21		01/06/2025	1707

NOTE: Hardness (total) is reported in mg/L

Comments:

EPA SAMPLE NO.

MBHM63

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011

Lab Code: ACE Case No.: 51879 MA No. : SDG No.: MBHM62

Matrix: SOIL Lab Sample ID: P5122-02

% Solids: 63.5 Date Received: 12/05/2024

Analytical Method: ICP_AES

Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7429-90-5	Aluminum	6500		01/06/2025	1711
7440-36-0	Antimony	16		01/06/2025	1711
7440-38-2	Arsenic	26		01/06/2025	1711
7440-39-3	Barium	410		01/06/2025	1711
7440-41-7	Beryllium	1.1		01/06/2025	1711
7440-43-9	Cadmium	1.4		01/06/2025	1711
7440-70-2	Calcium	17000		01/06/2025	1711
7440-47-3	Chromium	31		01/06/2025	1711
7440-48-4	Cobalt	16	*	01/06/2025	1711
7440-50-8	Copper	97		01/06/2025	1711
7439-89-6	Iron	43000		01/06/2025	1711
7439-92-1	Lead	1500		01/06/2025	1711
7439-95-4	Magnesium	4500		01/06/2025	1711
7439-96-5	Manganese	560		01/06/2025	1711
7440-02-0	Nickel	48		01/06/2025	1711
7440-09-7	Potassium	1000		01/06/2025	1711
7782-49-2	Selenium	20		01/06/2025	1711
7440-22-4	Silver	1.3	U*	01/06/2025	1711
7440-23-5	Sodium	140	J	01/06/2025	1711
7440-28-0	Thallium	3.3	U*	01/06/2025	1711
7440-62-2	Vanadium	29		01/06/2025	1711
7440-66-6	Zinc	670		01/06/2025	1711

NOTE: Hardness (total) is reported in mg/L

Comments:

EPA SAMPLE NO.

MBHM64

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011

Lab Code: ACE Case No.: 51879 MA No. : SDG No.: MBHM62

Matrix: SOIL Lab Sample ID: P5122-03

% Solids: 67.3 Date Received: 12/05/2024

Analytical Method: ICP_AES

Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7429-90-5	Aluminum	6200		01/06/2025	1715
7440-36-0	Antimony	6.9		01/06/2025	1715
7440-38-2	Arsenic	21		01/06/2025	1715
7440-39-3	Barium	340		01/06/2025	1715
7440-41-7	Beryllium	0.84		01/06/2025	1715
7440-43-9	Cadmium	1.3		01/06/2025	1715
7440-70-2	Calcium	19000		01/06/2025	1715
7440-47-3	Chromium	24		01/06/2025	1715
7440-48-4	Cobalt	13	*	01/06/2025	1715
7440-50-8	Copper	72		01/06/2025	1715
7439-89-6	Iron	24000		01/06/2025	1715
7439-92-1	Lead	1100		01/06/2025	1715
7439-95-4	Magnesium	4700		01/06/2025	1715
7439-96-5	Manganese	550		01/06/2025	1715
7440-02-0	Nickel	30		01/06/2025	1715
7440-09-7	Potassium	900		01/06/2025	1715
7782-49-2	Selenium	10		01/06/2025	1715
7440-22-4	Silver	1.1	U*	01/06/2025	1715
7440-23-5	Sodium	560	U	01/06/2025	1715
7440-28-0	Thallium	2.8	U*	01/06/2025	1715
7440-62-2	Vanadium	26		01/06/2025	1715
7440-66-6	Zinc	600		01/06/2025	1715

NOTE: Hardness (total) is reported in mg/L

Comments:

EPA SAMPLE NO.

MBHM65

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011

Lab Code: ACE Case No.: 51879 MA No. : SDG No.: MBHM62

Matrix: SOIL Lab Sample ID: P5122-04

% Solids: 75.3 Date Received: 12/05/2024

Analytical Method: ICP_AES

Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7429-90-5	Aluminum	5500		01/06/2025	1719
7440-36-0	Antimony	6.5		01/06/2025	1719
7440-38-2	Arsenic	22		01/06/2025	1719
7440-39-3	Barium	310		01/06/2025	1719
7440-41-7	Beryllium	0.78		01/06/2025	1719
7440-43-9	Cadmium	1.2		01/06/2025	1719
7440-70-2	Calcium	21000		01/06/2025	1719
7440-47-3	Chromium	23		01/06/2025	1719
7440-48-4	Cobalt	13	*	01/06/2025	1719
7440-50-8	Copper	68		01/06/2025	1719
7439-89-6	Iron	22000		01/06/2025	1719
7439-92-1	Lead	990		01/06/2025	1719
7439-95-4	Magnesium	4800		01/06/2025	1719
7439-96-5	Manganese	500		01/06/2025	1719
7440-02-0	Nickel	29		01/06/2025	1719
7440-09-7	Potassium	670		01/06/2025	1719
7782-49-2	Selenium	8.2		01/06/2025	1719
7440-22-4	Silver	0.98	U*	01/06/2025	1719
7440-23-5	Sodium	110	J	01/06/2025	1719
7440-28-0	Thallium	2.4	U*	01/06/2025	1719
7440-62-2	Vanadium	27		01/06/2025	1719
7440-66-6	Zinc	540		01/06/2025	1719

NOTE: Hardness (total) is reported in mg/L

Comments:

EPA SAMPLE NO.

MBHM66

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011

Lab Code: ACE Case No.: 51879 MA No. : SDG No.: MBHM62

Matrix: SOIL Lab Sample ID: P5122-05

% Solids: 74.3 Date Received: 12/05/2024

Analytical Method: ICP_AES

Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7429-90-5	Aluminum	6200		01/06/2025	1723
7440-36-0	Antimony	4.6	J	01/06/2025	1723
7440-38-2	Arsenic	15		01/06/2025	1723
7440-39-3	Barium	220		01/06/2025	1723
7440-41-7	Beryllium	0.68		01/06/2025	1723
7440-43-9	Cadmium	1.0		01/06/2025	1723
7440-70-2	Calcium	16000		01/06/2025	1723
7440-47-3	Chromium	17		01/06/2025	1723
7440-48-4	Cobalt	12	*	01/06/2025	1723
7440-50-8	Copper	71		01/06/2025	1723
7439-89-6	Iron	18000		01/06/2025	1723
7439-92-1	Lead	390		01/06/2025	1723
7439-95-4	Magnesium	3700		01/06/2025	1723
7439-96-5	Manganese	640		01/06/2025	1723
7440-02-0	Nickel	20		01/06/2025	1723
7440-09-7	Potassium	590		01/06/2025	1723
7782-49-2	Selenium	6.5		01/06/2025	1723
7440-22-4	Silver	1.0	U*	01/06/2025	1723
7440-23-5	Sodium	510	U	01/06/2025	1723
7440-28-0	Thallium	2.6	U*	01/06/2025	1723
7440-62-2	Vanadium	19		01/06/2025	1723
7440-66-6	Zinc	270		01/06/2025	1723

NOTE: Hardness (total) is reported in mg/L

Comments:

EPA SAMPLE NO.

MBHM67

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011

Lab Code: ACE Case No.: 51879 MA No. : SDG No.: MBHM62

Matrix: SOIL Lab Sample ID: P5122-06

% Solids: 73.5 Date Received: 12/05/2024

Analytical Method: ICP_AES

Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7429-90-5	Aluminum	6800		01/06/2025	1726
7440-36-0	Antimony	3.3	J	01/06/2025	1726
7440-38-2	Arsenic	12		01/06/2025	1726
7440-39-3	Barium	200		01/06/2025	1726
7440-41-7	Beryllium	0.62		01/06/2025	1726
7440-43-9	Cadmium	1.0		01/06/2025	1726
7440-70-2	Calcium	13000		01/06/2025	1726
7440-47-3	Chromium	15		01/06/2025	1726
7440-48-4	Cobalt	13	*	01/06/2025	1726
7440-50-8	Copper	35		01/06/2025	1726
7439-89-6	Iron	16000		01/06/2025	1726
7439-92-1	Lead	180		01/06/2025	1726
7439-95-4	Magnesium	3400		01/06/2025	1726
7439-96-5	Manganese	1000		01/06/2025	1726
7440-02-0	Nickel	19		01/06/2025	1726
7440-09-7	Potassium	670		01/06/2025	1726
7782-49-2	Selenium	6.4		01/06/2025	1726
7440-22-4	Silver	0.94	U*	01/06/2025	1726
7440-23-5	Sodium	470	U	01/06/2025	1726
7440-28-0	Thallium	2.4	U*	01/06/2025	1726
7440-62-2	Vanadium	16		01/06/2025	1726
7440-66-6	Zinc	140		01/06/2025	1726

NOTE: Hardness (total) is reported in mg/L

Comments:

EPA SAMPLE NO.

MBHM68

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011

Lab Code: ACE Case No.: 51879 MA No. : SDG No.: MBHM62

Matrix: SOIL Lab Sample ID: P5122-07

% Solids: 85.4 Date Received: 12/05/2024

Analytical Method: ICP_AES

Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7429-90-5	Aluminum	5500		01/06/2025	1730
7440-36-0	Antimony	2.3	J	01/06/2025	1730
7440-38-2	Arsenic	6.1		01/06/2025	1730
7440-39-3	Barium	68		01/06/2025	1730
7440-41-7	Beryllium	0.40	J	01/06/2025	1730
7440-43-9	Cadmium	0.25	J	01/06/2025	1730
7440-70-2	Calcium	62000		01/06/2025	1730
7440-47-3	Chromium	9.5		01/06/2025	1730
7440-48-4	Cobalt	12	*	01/06/2025	1730
7440-50-8	Copper	17		01/06/2025	1730
7439-89-6	Iron	14000		01/06/2025	1730
7439-92-1	Lead	22		01/06/2025	1730
7439-95-4	Magnesium	13000		01/06/2025	1730
7439-96-5	Manganese	880		01/06/2025	1730
7440-02-0	Nickel	17		01/06/2025	1730
7440-09-7	Potassium	720		01/06/2025	1730
7782-49-2	Selenium	3.5		01/06/2025	1730
7440-22-4	Silver	0.88	U*	01/06/2025	1730
7440-23-5	Sodium	110	J	01/06/2025	1730
7440-28-0	Thallium	0.71	J*	01/06/2025	1730
7440-62-2	Vanadium	13		01/06/2025	1730
7440-66-6	Zinc	40		01/06/2025	1730

NOTE: Hardness (total) is reported in mg/L

Comments:

EPA SAMPLE NO.

MBHM69

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011

Lab Code: ACE Case No.: 51879 MA No. : SDG No.: MBHM62

Matrix: SOIL Lab Sample ID: P5122-08

% Solids: 89 Date Received: 12/05/2024

Analytical Method: ICP_AES

Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7429-90-5	Aluminum	4200		01/06/2025	1734
7440-36-0	Antimony	1.8	J	01/06/2025	1734
7440-38-2	Arsenic	3.6		01/06/2025	1734
7440-39-3	Barium	50		01/06/2025	1734
7440-41-7	Beryllium	0.34	J	01/06/2025	1734
7440-43-9	Cadmium	0.19	J	01/06/2025	1734
7440-70-2	Calcium	93000	D	01/06/2025	2017
7440-47-3	Chromium	8.6		01/06/2025	1734
7440-48-4	Cobalt	9.9	*	01/06/2025	1734
7440-50-8	Copper	17		01/06/2025	1734
7439-89-6	Iron	11000		01/06/2025	1734
7439-92-1	Lead	14		01/06/2025	1734
7439-95-4	Magnesium	19000		01/06/2025	1734
7439-96-5	Manganese	680		01/06/2025	1734
7440-02-0	Nickel	13		01/06/2025	1734
7440-09-7	Potassium	620		01/06/2025	1734
7782-49-2	Selenium	1.9	J	01/06/2025	1734
7440-22-4	Silver	0.83	U*	01/06/2025	1734
7440-23-5	Sodium	130	J	01/06/2025	1734
7440-28-0	Thallium	1.7	J*	01/06/2025	1734
7440-62-2	Vanadium	9.9		01/06/2025	1734
7440-66-6	Zinc	35		01/06/2025	1734

NOTE: Hardness (total) is reported in mg/L

Comments:

EPA SAMPLE NO.

MBHMC6

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011

Lab Code: ACE Case No.: 51879 MA No. : SDG No.: MBHM62

Matrix: SOIL Lab Sample ID: P5122-09

% Solids: 67.2 Date Received: 12/05/2024

Analytical Method: ICP_AES

Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7429-90-5	Aluminum	5700		01/06/2025	1738
7440-36-0	Antimony	6.3	J	01/06/2025	1738
7440-38-2	Arsenic	19		01/06/2025	1738
7440-39-3	Barium	290		01/06/2025	1738
7440-41-7	Beryllium	0.82		01/06/2025	1738
7440-43-9	Cadmium	1.6		01/06/2025	1738
7440-70-2	Calcium	24000		01/06/2025	1738
7440-47-3	Chromium	22		01/06/2025	1738
7440-48-4	Cobalt	12	*	01/06/2025	1738
7440-50-8	Copper	61		01/06/2025	1738
7439-89-6	Iron	23000		01/06/2025	1738
7439-92-1	Lead	1000		01/06/2025	1738
7439-95-4	Magnesium	6700		01/06/2025	1738
7439-96-5	Manganese	640		01/06/2025	1738
7440-02-0	Nickel	33		01/06/2025	1738
7440-09-7	Potassium	940		01/06/2025	1738
7782-49-2	Selenium	8.8		01/06/2025	1738
7440-22-4	Silver	1.1	U*	01/06/2025	1738
7440-23-5	Sodium	560	U	01/06/2025	1738
7440-28-0	Thallium	2.8	U*	01/06/2025	1738
7440-62-2	Vanadium	23		01/06/2025	1738
7440-66-6	Zinc	530		01/06/2025	1738

NOTE: Hardness (total) is reported in mg/L

Comments:

EPA SAMPLE NO.

MBHMC7

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011

Lab Code: ACE Case No.: 51879 MA No. : SDG No.: MBHM62

Matrix: SOIL Lab Sample ID: P5122-10

% Solids: 74.4 Date Received: 12/05/2024

Analytical Method: ICP_AES

Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7429-90-5	Aluminum	5600		01/06/2025	1742
7440-36-0	Antimony	6.3	J	01/06/2025	1742
7440-38-2	Arsenic	21		01/06/2025	1742
7440-39-3	Barium	280		01/06/2025	1742
7440-41-7	Beryllium	0.83		01/06/2025	1742
7440-43-9	Cadmium	1.5		01/06/2025	1742
7440-70-2	Calcium	31000		01/06/2025	1742
7440-47-3	Chromium	22		01/06/2025	1742
7440-48-4	Cobalt	13	*	01/06/2025	1742
7440-50-8	Copper	64		01/06/2025	1742
7439-89-6	Iron	24000		01/06/2025	1742
7439-92-1	Lead	1200		01/06/2025	1742
7439-95-4	Magnesium	7400		01/06/2025	1742
7439-96-5	Manganese	710		01/06/2025	1742
7440-02-0	Nickel	35		01/06/2025	1742
7440-09-7	Potassium	840		01/06/2025	1742
7782-49-2	Selenium	8.5		01/06/2025	1742
7440-22-4	Silver	1.1	U*	01/06/2025	1742
7440-23-5	Sodium	540	U	01/06/2025	1742
7440-28-0	Thallium	2.7	U*	01/06/2025	1742
7440-62-2	Vanadium	21		01/06/2025	1742
7440-66-6	Zinc	540		01/06/2025	1742

NOTE: Hardness (total) is reported in mg/L

Comments:

EPA SAMPLE NO.

MBHMC8

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011

Lab Code: ACE Case No.: 51879 MA No. : SDG No.: MBHM62

Matrix: SOIL Lab Sample ID: P5122-11

% Solids: 78.4 Date Received: 12/05/2024

Analytical Method: ICP_AES

Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7429-90-5	Aluminum	5200		01/06/2025	1745
7440-36-0	Antimony	7.1		01/06/2025	1745
7440-38-2	Arsenic	26		01/06/2025	1745
7440-39-3	Barium	380		01/06/2025	1745
7440-41-7	Beryllium	0.82		01/06/2025	1745
7440-43-9	Cadmium	1.7		01/06/2025	1745
7440-70-2	Calcium	39000		01/06/2025	1745
7440-47-3	Chromium	20		01/06/2025	1745
7440-48-4	Cobalt	13	*	01/06/2025	1745
7440-50-8	Copper	76		01/06/2025	1745
7439-89-6	Iron	27000		01/06/2025	1745
7439-92-1	Lead	3200		01/06/2025	1745
7439-95-4	Magnesium	5900		01/06/2025	1745
7439-96-5	Manganese	610		01/06/2025	1745
7440-02-0	Nickel	34		01/06/2025	1745
7440-09-7	Potassium	740		01/06/2025	1745
7782-49-2	Selenium	11		01/06/2025	1745
7440-22-4	Silver	0.96	U*	01/06/2025	1745
7440-23-5	Sodium	120	J	01/06/2025	1745
7440-28-0	Thallium	2.4	U*	01/06/2025	1745
7440-62-2	Vanadium	20		01/06/2025	1745
7440-66-6	Zinc	740		01/06/2025	1745

NOTE: Hardness (total) is reported in mg/L

Comments:

EPA SAMPLE NO.

MBHMC9

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011

Lab Code: ACE Case No.: 51879 MA No. : SDG No.: MBHM62

Matrix: SOIL Lab Sample ID: P5122-12

% Solids: 81.5 Date Received: 12/05/2024

Analytical Method: ICP_AES

Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7429-90-5	Aluminum	5200		01/06/2025	0216
7440-36-0	Antimony	5.4		01/06/2025	0216
7440-38-2	Arsenic	12		01/06/2025	0216
7440-39-3	Barium	170		01/06/2025	0216
7440-41-7	Beryllium	0.68		01/06/2025	0216
7440-43-9	Cadmium	0.65		01/06/2025	0216
7440-70-2	Calcium	39000		01/06/2025	0216
7440-47-3	Chromium	15		01/06/2025	0216
7440-48-4	Cobalt	11	*	01/06/2025	0216
7440-50-8	Copper	35		01/06/2025	0216
7439-89-6	Iron	19000		01/06/2025	0216
7439-92-1	Lead	450		01/06/2025	0216
7439-95-4	Magnesium	6200		01/06/2025	0216
7439-96-5	Manganese	600		01/06/2025	0216
7440-02-0	Nickel	21		01/06/2025	0216
7440-09-7	Potassium	960		01/06/2025	0216
7782-49-2	Selenium	7.4		01/06/2025	0216
7440-22-4	Silver	0.90	U*	01/06/2025	0216
7440-23-5	Sodium	130	J	01/06/2025	0216
7440-28-0	Thallium	2.3	U*	01/06/2025	0216
7440-62-2	Vanadium	21		01/06/2025	0216
7440-66-6	Zinc	280		01/06/2025	0216

NOTE: Hardness (total) is reported in mg/L

Comments:

EPA SAMPLE NO.

MBHMD0

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011

Lab Code: ACE Case No.: 51879 MA No. : SDG No.: MBHM62

Matrix: SOIL Lab Sample ID: P5122-15

% Solids: 75.7 Date Received: 12/05/2024

Analytical Method: ICP_AES

Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7429-90-5	Aluminum	4200		01/06/2025	1749
7440-36-0	Antimony	4.1	J	01/06/2025	1749
7440-38-2	Arsenic	9.7		01/06/2025	1749
7440-39-3	Barium	150		01/06/2025	1749
7440-41-7	Beryllium	0.43	J	01/06/2025	1749
7440-43-9	Cadmium	0.48		01/06/2025	1749
7440-70-2	Calcium	63000		01/06/2025	1749
7440-47-3	Chromium	13		01/06/2025	1749
7440-48-4	Cobalt	9.6	*	01/06/2025	1749
7440-50-8	Copper	47		01/06/2025	1749
7439-89-6	Iron	15000		01/06/2025	1749
7439-92-1	Lead	370		01/06/2025	1749
7439-95-4	Magnesium	14000		01/06/2025	1749
7439-96-5	Manganese	850		01/06/2025	1749
7440-02-0	Nickel	12		01/06/2025	1749
7440-09-7	Potassium	490		01/06/2025	1749
7782-49-2	Selenium	2.9	J	01/06/2025	1749
7440-22-4	Silver	0.96	U*	01/06/2025	1749
7440-23-5	Sodium	110	J	01/06/2025	1749
7440-28-0	Thallium	0.90	J*	01/06/2025	1749
7440-62-2	Vanadium	12		01/06/2025	1749
7440-66-6	Zinc	190		01/06/2025	1749

NOTE: Hardness (total) is reported in mg/L

Comments:

EPA SAMPLE NO.

MBHMD1

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011

Lab Code: ACE Case No.: 51879 MA No. : SDG No.: MBHM62

Matrix: SOIL Lab Sample ID: P5122-16

% Solids: 88.4 Date Received: 12/05/2024

Analytical Method: ICP_AES

Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7429-90-5	Aluminum	5000		01/06/2025	1753
7440-36-0	Antimony	3.7	J	01/06/2025	1753
7440-38-2	Arsenic	14		01/06/2025	1753
7440-39-3	Barium	290		01/06/2025	1753
7440-41-7	Beryllium	0.28	J	01/06/2025	1753
7440-43-9	Cadmium	0.76		01/06/2025	1753
7440-70-2	Calcium	8300		01/06/2025	1753
7440-47-3	Chromium	16		01/06/2025	1753
7440-48-4	Cobalt	12	*	01/06/2025	1753
7440-50-8	Copper	38		01/06/2025	1753
7439-89-6	Iron	17000		01/06/2025	1753
7439-92-1	Lead	200		01/06/2025	1753
7439-95-4	Magnesium	2400		01/06/2025	1753
7439-96-5	Manganese	4000	D	01/06/2025	2021
7440-02-0	Nickel	15		01/06/2025	1753
7440-09-7	Potassium	410		01/06/2025	1753
7782-49-2	Selenium	9.6		01/06/2025	1753
7440-22-4	Silver	0.76	U*	01/06/2025	1753
7440-23-5	Sodium	380	U	01/06/2025	1753
7440-28-0	Thallium	1.3	J*	01/06/2025	1753
7440-62-2	Vanadium	13		01/06/2025	1753
7440-66-6	Zinc	150		01/06/2025	1753

NOTE: Hardness (total) is reported in mg/L

Comments:

EPA SAMPLE NO.

MBHMD2

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011

Lab Code: ACE Case No.: 51879 MA No. : SDG No.: MBHM62

Matrix: SOIL Lab Sample ID: P5122-17

% Solids: 37.3 Date Received: 12/05/2024

Analytical Method: ICP_AES

Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7429-90-5	Aluminum	2800		01/06/2025	1757
7440-36-0	Antimony	4.1	J	01/06/2025	1757
7440-38-2	Arsenic	15		01/06/2025	1757
7440-39-3	Barium	140		01/06/2025	1757
7440-41-7	Beryllium	0.37	J	01/06/2025	1757
7440-43-9	Cadmium	0.71	J	01/06/2025	1757
7440-70-2	Calcium	22000		01/06/2025	1757
7440-47-3	Chromium	26		01/06/2025	1757
7440-48-4	Cobalt	14	*	01/06/2025	1757
7440-50-8	Copper	44		01/06/2025	1757
7439-89-6	Iron	19000		01/06/2025	1757
7439-92-1	Lead	24		01/06/2025	1757
7439-95-4	Magnesium	1800		01/06/2025	1757
7439-96-5	Manganese	930		01/06/2025	1757
7440-02-0	Nickel	12		01/06/2025	1757
7440-09-7	Potassium	1100	U	01/06/2025	1757
7782-49-2	Selenium	6.8	J	01/06/2025	1757
7440-22-4	Silver	2.3	U*	01/06/2025	1757
7440-23-5	Sodium	1100	U	01/06/2025	1757
7440-28-0	Thallium	5.7	U*	01/06/2025	1757
7440-62-2	Vanadium	11		01/06/2025	1757
7440-66-6	Zinc	47		01/06/2025	1757

NOTE: Hardness (total) is reported in mg/L

Comments:

EPA SAMPLE NO.

MBHMD3

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011

Lab Code: ACE Case No.: 51879 MA No. : SDG No.: MBHM62

Matrix: SOIL Lab Sample ID: P5122-18

% Solids: 79.5 Date Received: 12/05/2024

Analytical Method: ICP_AES

Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7429-90-5	Aluminum	1800		01/06/2025	1800
7440-36-0	Antimony	1.6	J	01/06/2025	1800
7440-38-2	Arsenic	7.6		01/06/2025	1800
7440-39-3	Barium	61		01/06/2025	1800
7440-41-7	Beryllium	0.31	J	01/06/2025	1800
7440-43-9	Cadmium	0.057	J	01/06/2025	1800
7440-70-2	Calcium	6000		01/06/2025	1800
7440-47-3	Chromium	2.4		01/06/2025	1800
7440-48-4	Cobalt	5.0	*	01/06/2025	1800
7440-50-8	Copper	22		01/06/2025	1800
7439-89-6	Iron	6100		01/06/2025	1800
7439-92-1	Lead	62		01/06/2025	1800
7439-95-4	Magnesium	910		01/06/2025	1800
7439-96-5	Manganese	75		01/06/2025	1800
7440-02-0	Nickel	5.7		01/06/2025	1800
7440-09-7	Potassium	130	J	01/06/2025	1800
7782-49-2	Selenium	1.4	J	01/06/2025	1800
7440-22-4	Silver	0.91	U*	01/06/2025	1800
7440-23-5	Sodium	180	J	01/06/2025	1800
7440-28-0	Thallium	2.3	U*	01/06/2025	1800
7440-62-2	Vanadium	8.8		01/06/2025	1800
7440-66-6	Zinc	29		01/06/2025	1800

NOTE: Hardness (total) is reported in mg/L

Comments:

EPA SAMPLE NO.

MBHMD4

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011

Lab Code: ACE Case No.: 51879 MA No. : SDG No.: MBHM62

Matrix: SOIL Lab Sample ID: P5122-19

% Solids: 73.3 Date Received: 12/05/2024

Analytical Method: ICP_AES

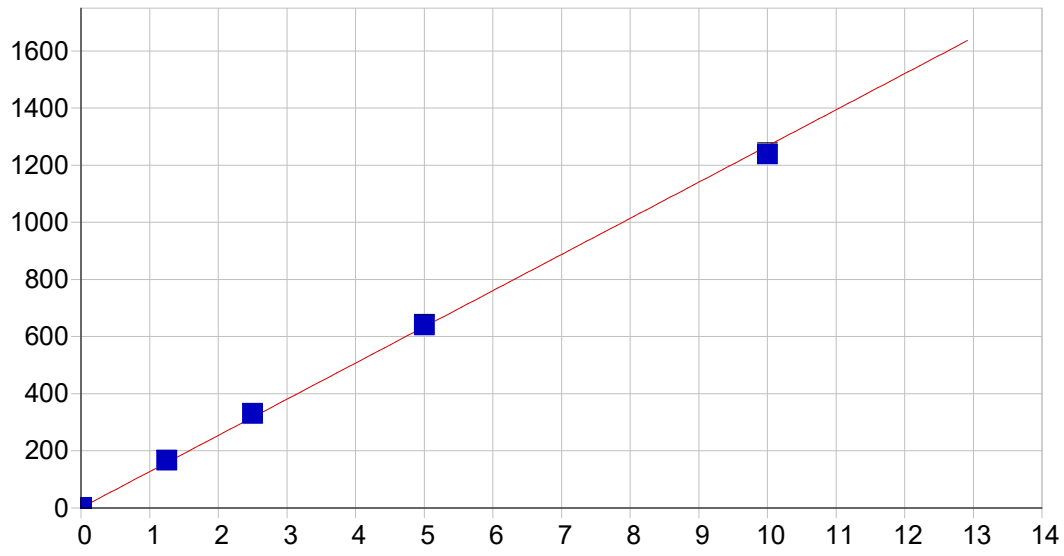
Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7429-90-5	Aluminum	7100		01/06/2025	1857
7440-36-0	Antimony	6.0	J	01/06/2025	1857
7440-38-2	Arsenic	19		01/06/2025	1857
7440-39-3	Barium	300		01/06/2025	1857
7440-41-7	Beryllium	0.82		01/06/2025	1857
7440-43-9	Cadmium	1.5		01/06/2025	1857
7440-70-2	Calcium	20000		01/06/2025	1857
7440-47-3	Chromium	20		01/06/2025	1857
7440-48-4	Cobalt	13	*	01/06/2025	1857
7440-50-8	Copper	54		01/06/2025	1857
7439-89-6	Iron	24000		01/06/2025	1857
7439-92-1	Lead	450		01/06/2025	1857
7439-95-4	Magnesium	4200		01/06/2025	1857
7439-96-5	Manganese	1100		01/06/2025	1857
7440-02-0	Nickel	24		01/06/2025	1857
7440-09-7	Potassium	630		01/06/2025	1857
7782-49-2	Selenium	9.2		01/06/2025	1857
7440-22-4	Silver	1.1	U*	01/06/2025	1857
7440-23-5	Sodium	560	U	01/06/2025	1857
7440-28-0	Thallium	2.8	U*	01/06/2025	1857
7440-62-2	Vanadium	24		01/06/2025	1857
7440-66-6	Zinc	340		01/06/2025	1857

NOTE: Hardness (total) is reported in mg/L

Comments:

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5



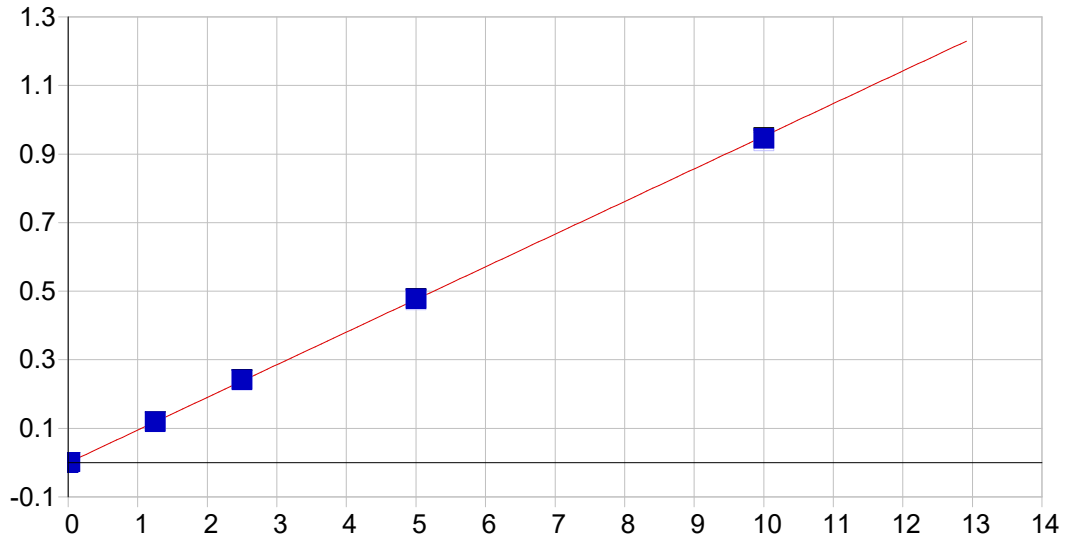
As 189.042 {478}

Date of Fit:	01/05/2025 18:00:22	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.718565	Re-Slope:	1.000000
A1 (Gain):	126.665284	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999638	Status:	OK.
Std Error of Est:	0.056946		
Predicted MDL:	0.006590		
Predicted MQL:	0.021967		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.71861	.555	1
S1	.01000	.00884	-.001	-11.6	1.8364	.323	1
S2	1.2500	1.3139	.064	5.11	166.48	.209	1
S3	2.5000	2.6079	.108	4.32	329.72	.716	1
S4	5.0000	5.0509	.051	1.02	637.83	2.66	1
S5	10.000	9.7784	-.222	-2.22	1234.0	4.33	1

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5



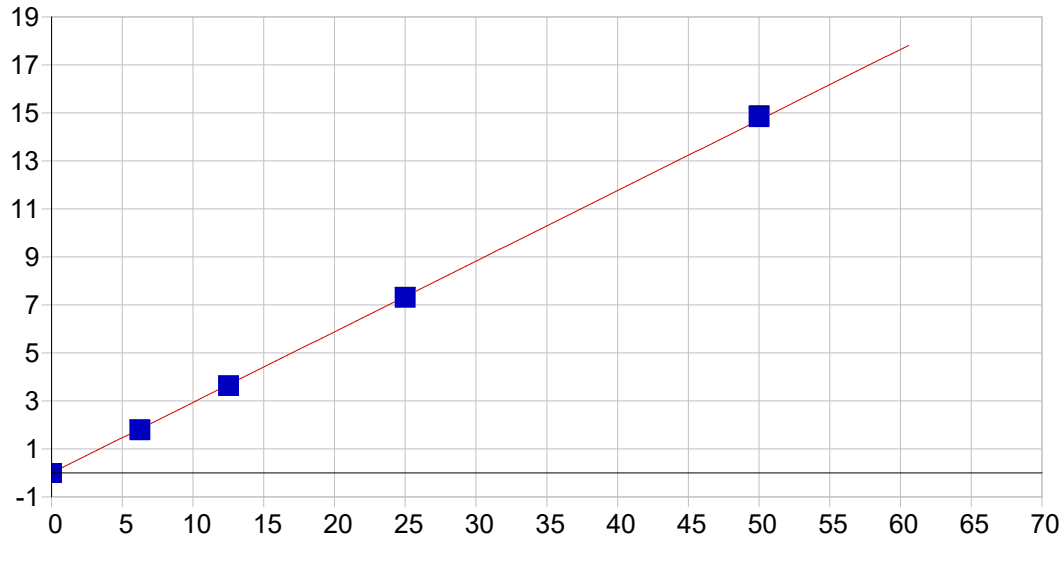
Tl 190.856 {477}

Date of Fit:	01/05/2025 18:00:22	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000240	Re-Slope:	1.000000
A1 (Gain):	0.095219	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999963	Status:	OK.
Std Error of Est:	0.000021		
Predicted MDL:	0.003422		
Predicted MQL:	0.011405		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	-.00024	.000	1
S1	.02500	.02399	-.001	-4.05	.00196	.000	1
S2	1.2500	1.2528	.003	.222	.11803	.000	1
S3	2.5000	2.5446	.045	1.79	.24002	.000	1
S4	5.0000	5.0196	.020	.392	.47364	.001	1
S5	10.000	9.9340	-.066	-.660	.93750	.002	1

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5



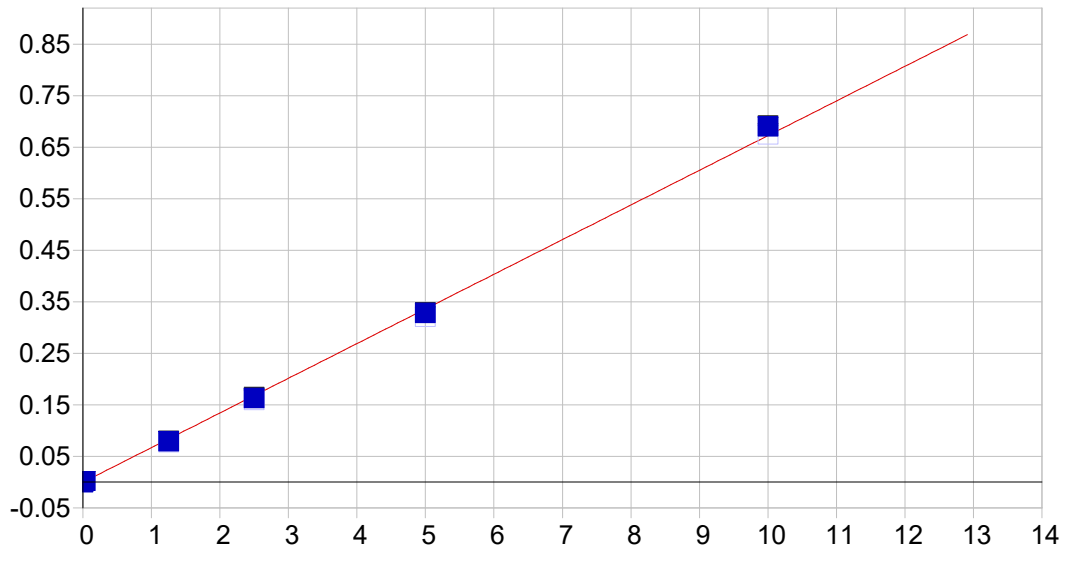
Pb 220.353 {453}

Date of Fit:	01/05/2025 18:00:22	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.001433	Re-Slope:	1.000000
A1 (Gain):	0.294089	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999926	Status:	OK.
Std Error of Est:	0.000134		
Predicted MDL:	0.003009		
Predicted MQL:	0.010028		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00143	.001	1
S1	.01000	.01249	.002	24.9	.00222	.001	1
S2	6.2500	6.0576	-.192	-3.08	1.7765	.004	1
S3	12.500	12.349	-.151	-1.21	3.6232	.002	1
S4	25.000	24.858	-.142	-.568	7.2949	.011	1
S5	50.000	50.483	.483	.965	14.817	.031	1

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5



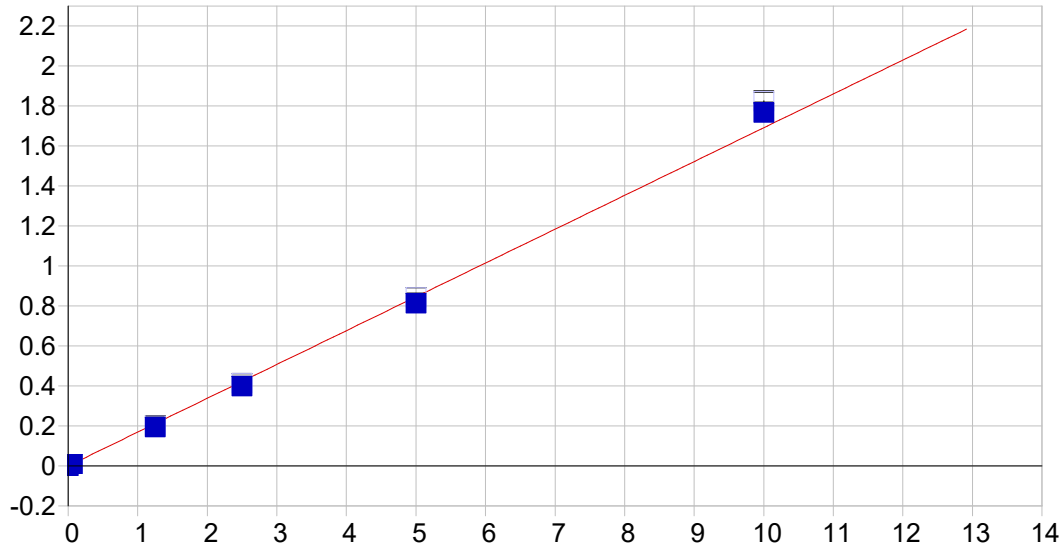
Se 196.090 {472}

Date of Fit:	01/05/2025 18:00:22	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000282	Re-Slope:	1.000000
A1 (Gain):	0.067274	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999564	Status:	OK.
Std Error of Est:	0.000061		
Predicted MDL:	0.006420		
Predicted MQL:	0.021401		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	-.00028	.000	1
S1	.03500	.03405	-.001	-2.72	.00200	.000	1
S2	1.2500	1.1798	-.070	-5.62	.07720	.001	1
S3	2.5000	2.4281	-.072	-2.88	.15928	.001	1
S4	5.0000	4.8818	-.118	-2.36	.32057	.000	1
S5	10.000	10.261	.261	2.61	.67490	.002	1

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5



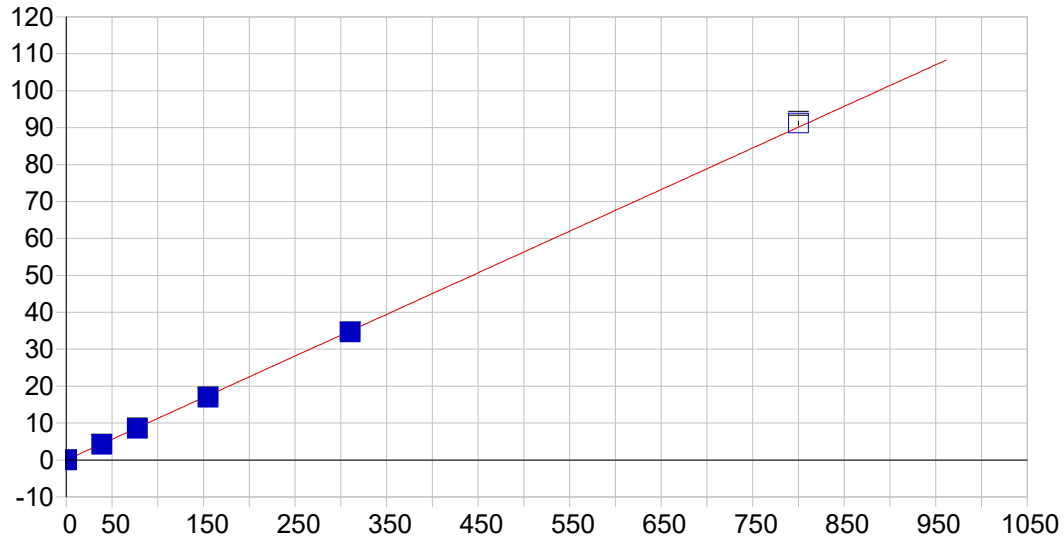
Sb 206.833 {463}

Date of Fit:	01/05/2025 18:00:22	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000032	Re-Slope:	1.000000
A1 (Gain):	0.169143	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.998884	Status:	OK.
Std Error of Est:	0.000340		
Predicted MDL:	0.003569		
Predicted MQL:	0.011897		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00001	.000	.000	-.00003	.000	1
S1	.06000	.05488	-.005	-8.54	.00925	.000	1
S2	1.2500	1.1440	-.106	-8.48	.20053	.001	1
S3	2.5000	2.3540	-.146	-5.84	.41226	.001	1
S4	5.0000	4.8116	-.188	-3.77	.84209	.000	1
S5	10.000	10.445	.445	4.45	1.8233	.003	1

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5



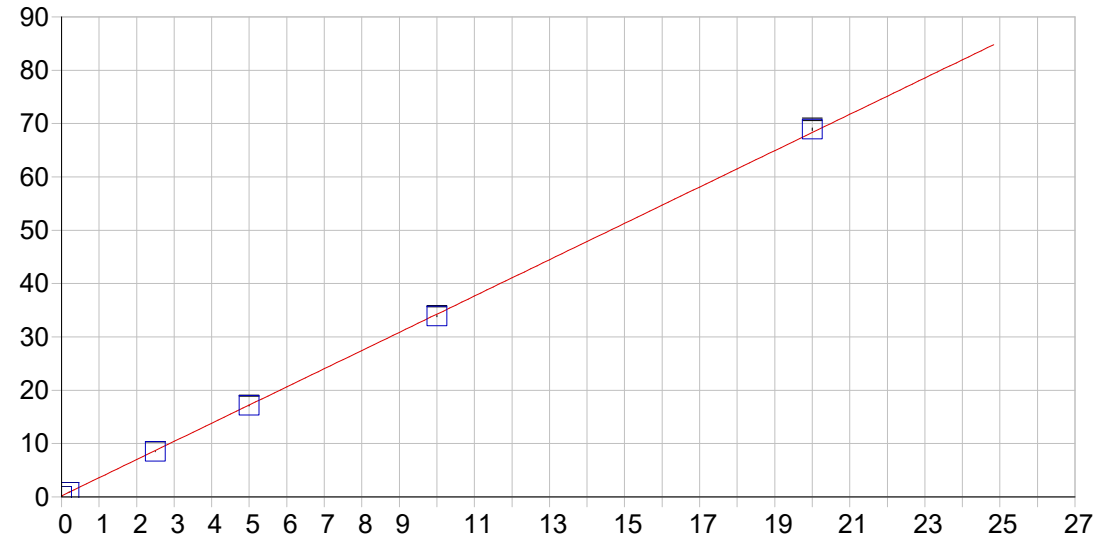
Al 396.152 { 85}

Date of Fit:	01/05/2025 18:00:22	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.002640	Re-Slope:	1.000000
A1 (Gain):	0.112671	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999878	Status:	OK.
Std Error of Est:	0.001095		
Predicted MDL:	0.031330		
Predicted MQL:	0.104434		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00003	-.000	.000	-.00264	.004	1
S1	.20000	.24877	.049	24.4	.02543	.003	1
S2	38.750	37.472	-1.28	-3.30	4.2242	.034	1
S3	77.500	75.693	-1.81	-2.33	8.5352	.079	1
S4	155.00	150.86	-4.14	-2.67	17.014	.071	1
S5	310.00	307.66	-2.34	-.756	34.699	.104	1
S6	800.00	809.53	9.53	1.19	91.207	.538	1

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5



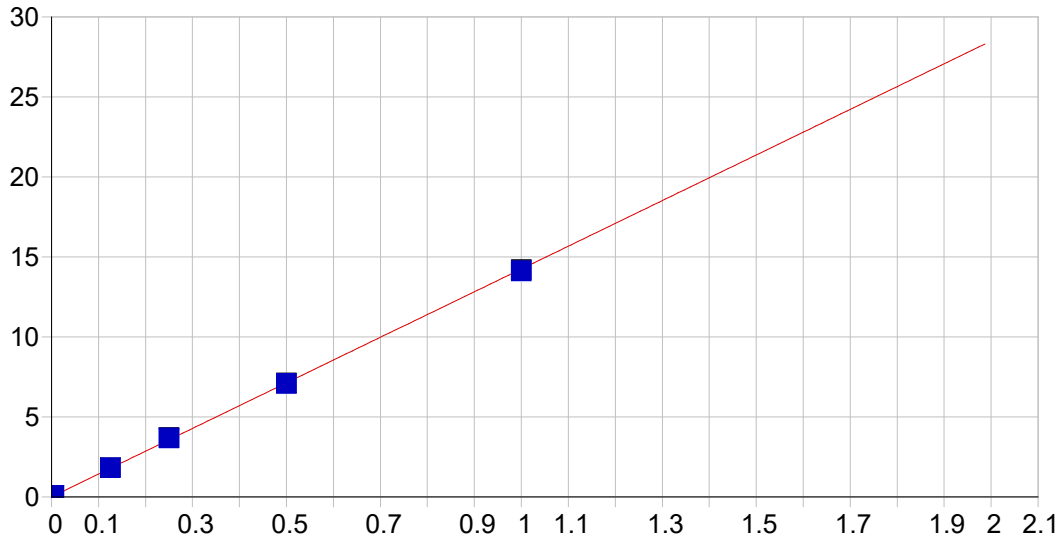
Ba 493.409 { 68}

Date of Fit:	01/05/2025 18:00:22	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.191444	Re-Slope:	1.000000
A1 (Gain):	3.406758	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999934	Status:	OK.
Std Error of Est:	0.004164		
Predicted MDL:	0.002685		
Predicted MQL:	0.008950		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00001	-.000	.000	.19143	.004	1
S1	.20000	.21147	.011	5.74	.91188	.004	1
S2	2.5000	2.4389	-.061	-2.45	8.5001	.022	1
S3	5.0000	4.9787	-.021	-.426	17.153	.085	1
S4	10.000	9.8927	-.107	-1.07	33.893	.137	1
S5	20.000	20.178	.178	.892	68.934	.229	1

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5



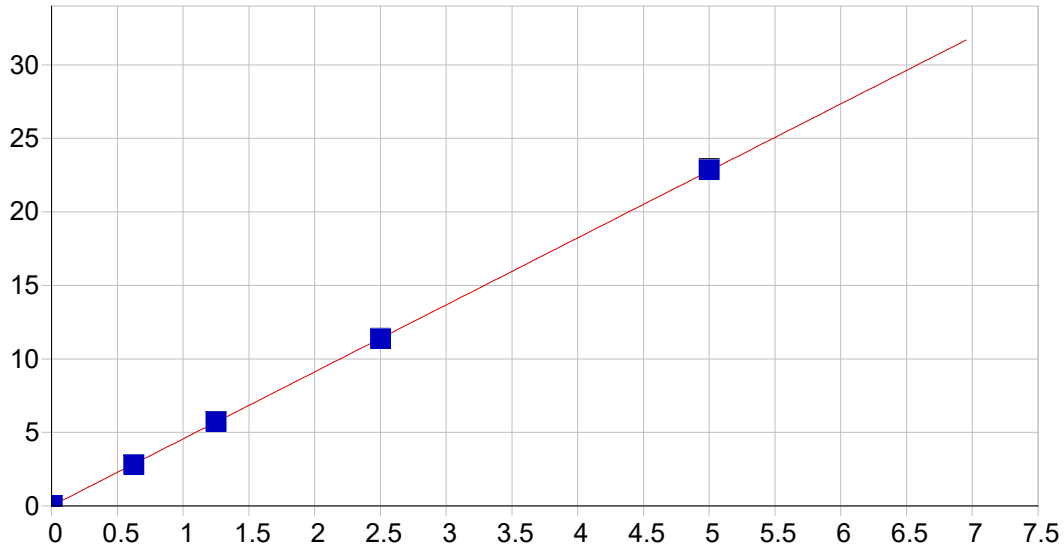
Be 234.861 {144}

Date of Fit:	01/05/2025 18:00:22	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.003613	Re-Slope:	1.000000
A1 (Gain):	14.245073	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999878	Status:	OK.
Std Error of Est:	0.000832		
Predicted MDL:	0.000142		
Predicted MQL:	0.000474		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00360	.001	1
S1	.00500	.00557	.001	11.4	.08289	.005	1
S2	.12500	.12798	.003	2.39	1.8186	.022	1
S3	.25000	.25765	.008	3.06	3.6575	.030	1
S4	.50000	.49708	-.003	-.584	7.0519	.029	1
S5	1.0000	.99172	-.008	-.828	14.065	.078	1

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5



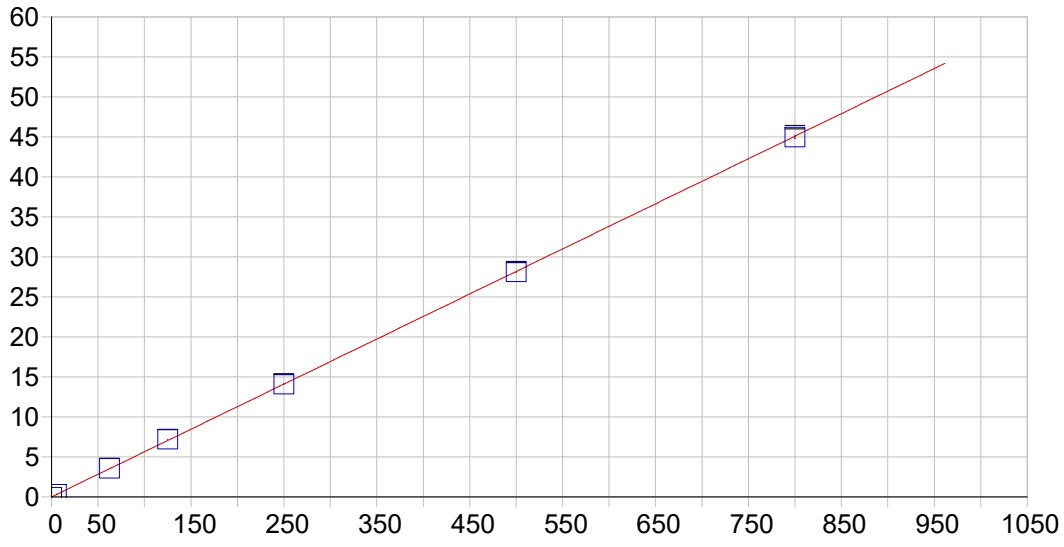
Cd 214.438 {457}

Date of Fit:	01/05/2025 18:00:22	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000530	Re-Slope:	1.000000
A1 (Gain):	4.557697	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999985	Status:	OK.
Std Error of Est:	0.000208		
Predicted MDL:	0.000106		
Predicted MQL:	0.000352		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00053	.000	1
S1	.00500	.00500	-.000	-.038	.02339	.000	1
S2	.62500	.61338	-.012	-1.86	2.8005	.006	1
S3	1.2500	1.2538	.004	.308	5.7239	.002	1
S4	2.5000	2.4943	-.006	-.230	11.386	.018	1
S5	5.0000	5.0135	.014	.270	22.886	.049	1

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5



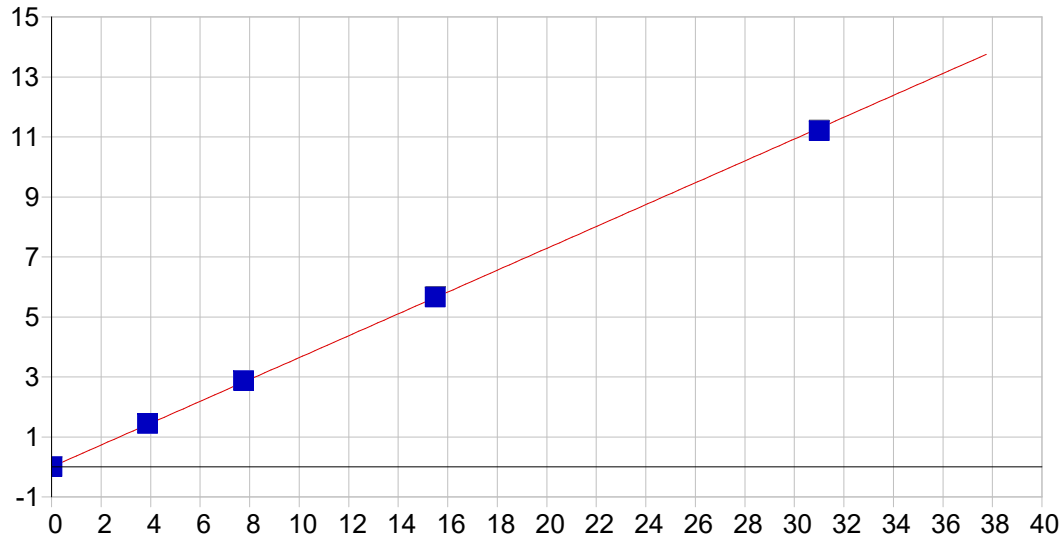
Ca 373.690 { 90}

Date of Fit:	01/05/2025 18:00:22	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.008315	Re-Slope:	1.000000
A1 (Gain):	0.056353	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999972	Status:	OK.
Std Error of Est:	0.001471		
Predicted MDL:	0.043296		
Predicted MQL:	0.144321		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00052	-.001	.000	.00829	.002	1
S1	5.0000	5.3966	.397	7.93	.31243	.002	1
S2	62.500	63.192	.692	1.11	3.5694	.020	1
S3	125.00	127.47	2.47	1.97	7.1915	.021	1
S4	250.00	249.97	-.033	-.013	14.095	.057	1
S5	500.00	498.76	-1.24	-.248	28.115	.075	1
S6	800.00	797.72	-2.28	-.286	44.962	.221	1

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5



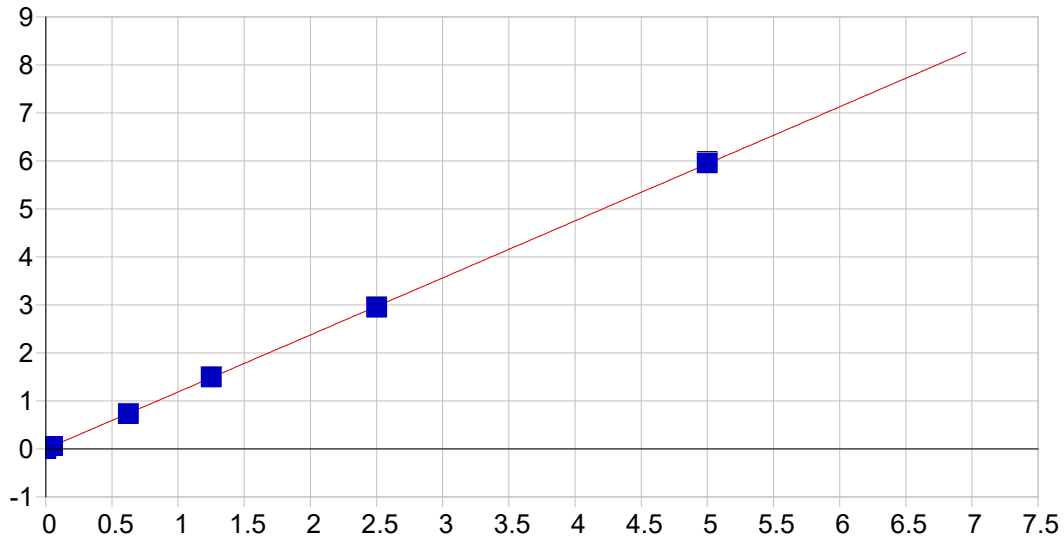
Cr 267.716 {126}

Date of Fit:	01/05/2025 18:00:22	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000055	Re-Slope:	1.000000
A1 (Gain):	0.364257	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999944	Status:	OK.
Std Error of Est:	0.000114		
Predicted MDL:	0.000896		
Predicted MQL:	0.002986		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00006	.000	1
S1	.01000	.01085	.001	8.51	.00390	.000	1
S2	3.8750	3.9476	.073	1.87	1.4390	.002	1
S3	7.7500	7.8981	.148	1.91	2.8791	.005	1
S4	15.500	15.537	.037	.241	5.6639	.017	1
S5	31.000	30.741	-.259	-.835	11.206	.015	1

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5



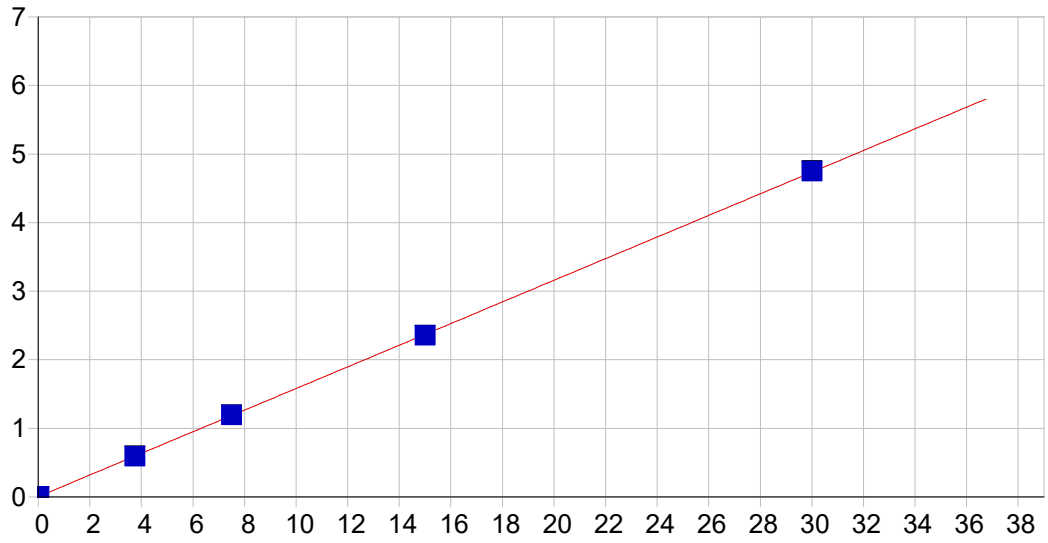
Co 228.616 {448}

Date of Fit:	01/05/2025 18:00:22	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.001435	Re-Slope:	1.000000
A1 (Gain):	1.188113	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999984	Status:	OK.
Std Error of Est:	0.000177		
Predicted MDL:	0.000436		
Predicted MQL:	0.001453		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00144	.000	1
S1	.05000	.05220	.002	4.39	.06077	.000	1
S2	.62500	.62101	-.004	-.639	.73879	.001	1
S3	1.2500	1.2583	.008	.661	1.4983	.001	1
S4	2.5000	2.4840	-.016	-.641	2.9594	.007	1
S5	5.0000	5.0096	.010	.191	5.9696	.014	1

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5



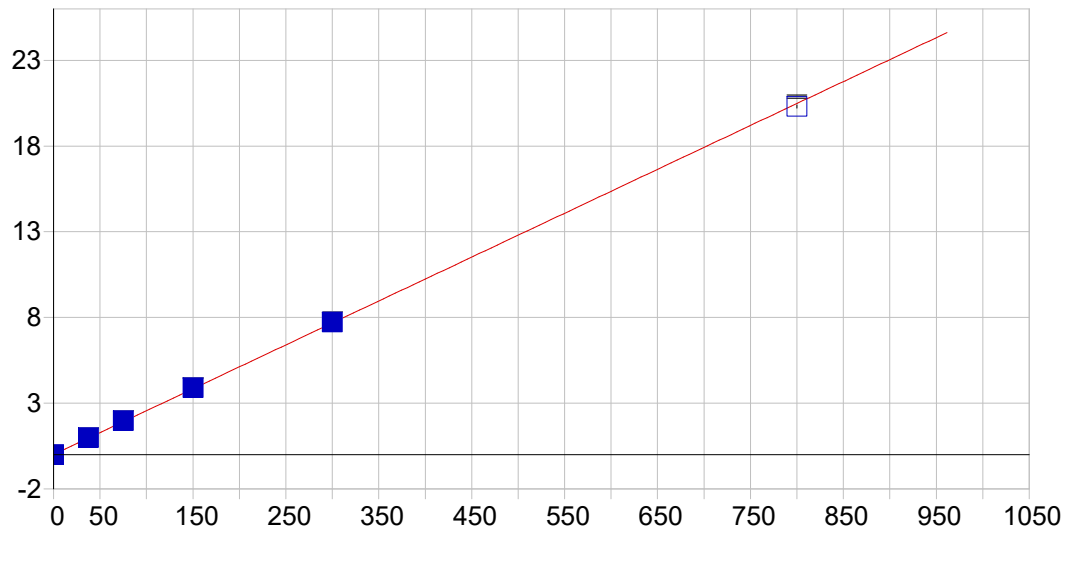
Cu 324.754 {104}

Date of Fit:	01/05/2025 18:00:22	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.003711	Re-Slope:	1.000000
A1 (Gain):	0.157760	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999981	Status:	OK.
Std Error of Est:	0.000044		
Predicted MDL:	0.010012		
Predicted MQL:	0.033374		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00371	.001	1
S1	.02500	.02986	.005	19.5	.00842	.002	1
S2	3.7500	3.7226	-.027	-.732	.59092	.004	1
S3	7.5000	7.5379	.038	.505	1.1928	.007	1
S4	15.000	14.908	-.092	-.615	2.3553	.002	1
S5	30.000	30.077	.077	.256	4.7481	.009	1

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5



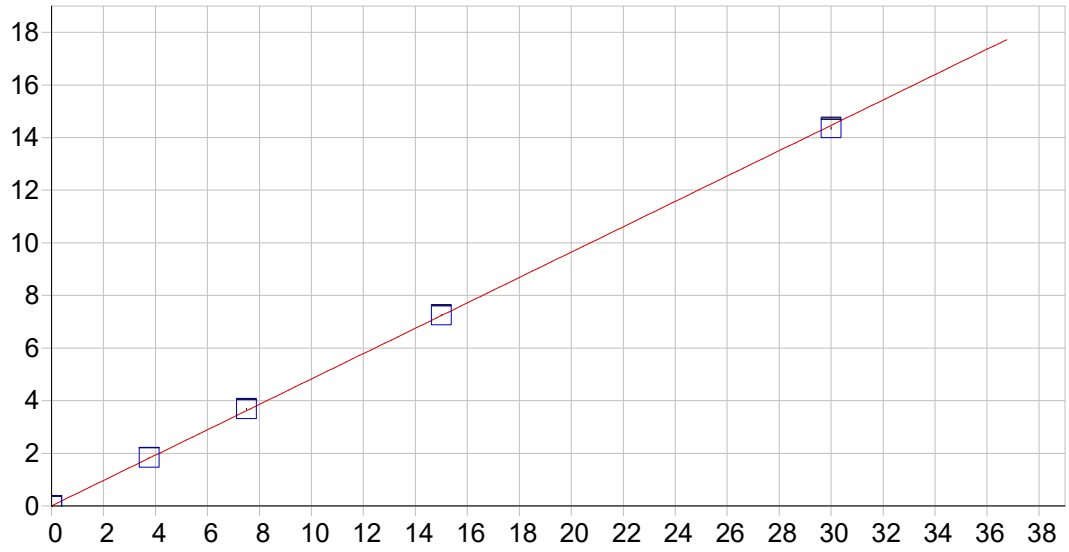
Fe 259.837 {130}

Date of Fit:	01/05/2025 18:00:22	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000019	Re-Slope:	1.000000
A1 (Gain):	0.025603	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999935	Status:	OK.
Std Error of Est:	0.000127		
Predicted MDL:	0.035846		
Predicted MQL:	0.119488		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00002	.001	1
S1	.10000	.08905	-.011	-11.0	.00230	.001	1
S2	37.500	38.426	.926	2.47	.98404	.006	1
S3	75.000	76.992	1.99	2.66	1.9716	.015	1
S4	150.00	151.94	1.94	1.29	3.8909	.010	1
S5	300.00	302.10	2.10	.698	7.7361	.013	1
S6	800.00	793.05	-6.95	-.868	20.304	.097	1

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5



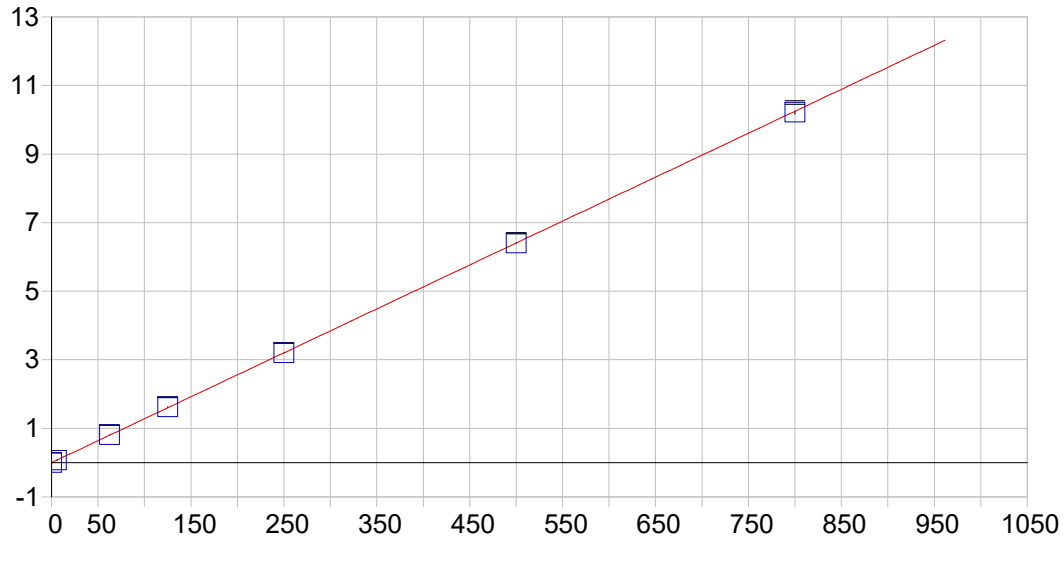
Mn 257.610 {131}

Date of Fit:	01/05/2025 18:00:22	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.003397	Re-Slope:	1.000000
A1 (Gain):	0.482121	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999955	Status:	OK.
Std Error of Est:	0.000163		
Predicted MDL:	0.001952		
Predicted MQL:	0.006506		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00340	.002	1
S1	.01500	.01502	.000	.136	.01064	.001	1
S2	3.7500	3.8050	.055	1.47	1.8379	.005	1
S3	7.5000	7.6398	.140	1.86	3.6867	.027	1
S4	15.000	15.027	.027	.183	7.2485	.025	1
S5	30.000	29.778	-.222	-.741	14.360	.041	1

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5



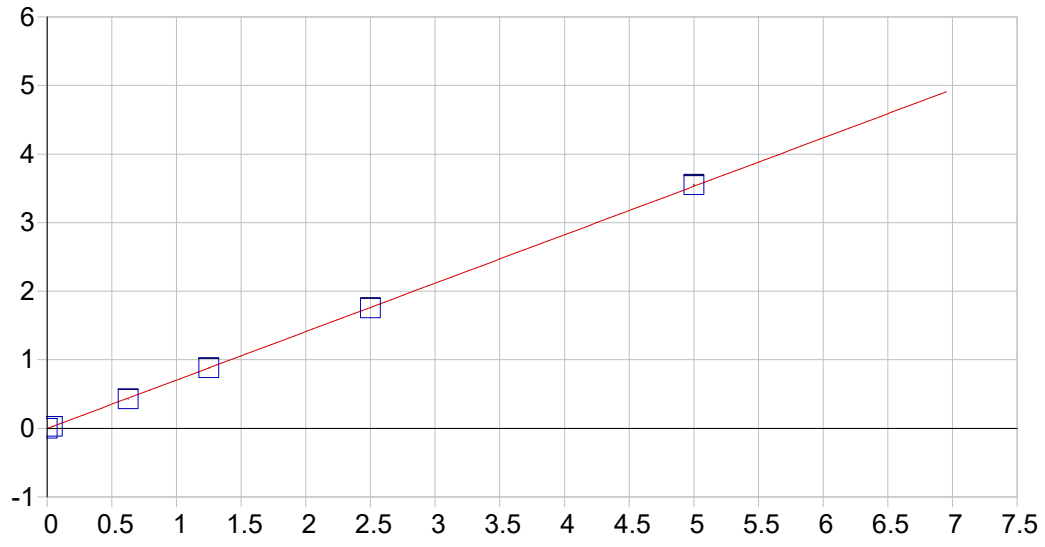
Mg 279.079 {121}

Date of Fit:	01/05/2025 18:00:22	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000913	Re-Slope:	1.000000
A1 (Gain):	0.012811	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999969	Status:	OK.
Std Error of Est:	0.000351		
Predicted MDL:	0.091055		
Predicted MQL:	0.303517		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00070	-.001	.000	-.00092	.001	1
S1	5.0000	5.6084	.608	12.2	.07093	.001	1
S2	62.500	63.009	.509	.814	.80627	.006	1
S3	125.00	126.61	1.61	1.29	1.6211	.013	1
S4	250.00	250.01	.014	.006	3.2019	.011	1
S5	500.00	499.86	-.143	-.029	6.4026	.020	1
S6	800.00	797.40	-2.60	-.325	10.214	.053	1

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5



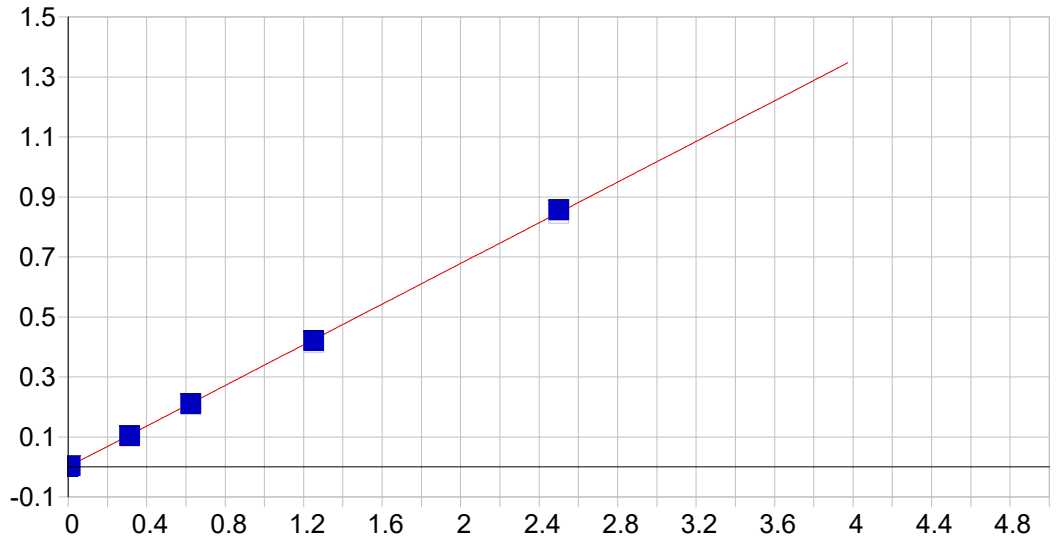
Ni 231.604 {446}

Date of Fit:	01/05/2025 18:00:22	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.001851	Re-Slope:	1.000000
A1 (Gain):	0.706192	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999960	Status:	OK.
Std Error of Est:	0.000149		
Predicted MDL:	0.000929		
Predicted MQL:	0.003097		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	-.00185	.000	1
S1	.04000	.03971	-.000	-.726	.02619	.000	1
S2	.62500	.60724	-.018	-2.84	.42698	.002	1
S3	1.2500	1.2491	-.001	-.069	.88028	.001	1
S4	2.5000	2.4886	-.011	-.457	1.7556	.003	1
S5	5.0000	5.0303	.030	.607	3.5505	.008	1

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5



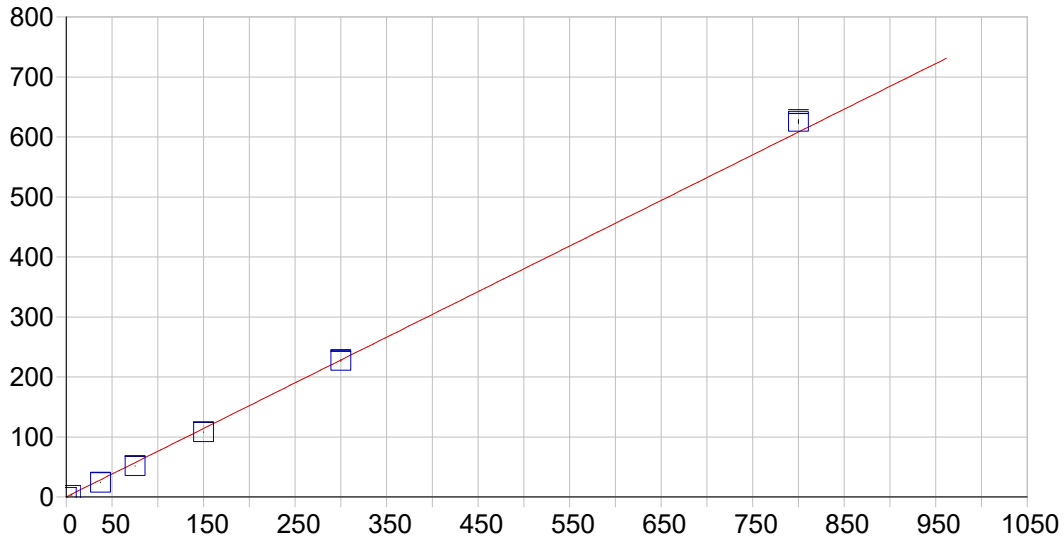
Ag 328.068 {103}

Date of Fit:	01/05/2025 18:00:22	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000452	Re-Slope:	1.000000
A1 (Gain):	0.338881	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999931	Status:	OK.
Std Error of Est:	0.000033		
Predicted MDL:	0.001634		
Predicted MQL:	0.005447		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00045	.001	1
S1	.01000	.01031	.000	3.05	.00394	.000	1
S2	.31250	.30376	-.009	-2.80	.10187	.000	1
S3	.62500	.61939	-.006	-.898	.20730	.000	1
S4	1.2500	1.2395	-.011	-.841	.41439	.001	1
S5	2.5000	2.5246	.025	.982	.84378	.001	1

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5



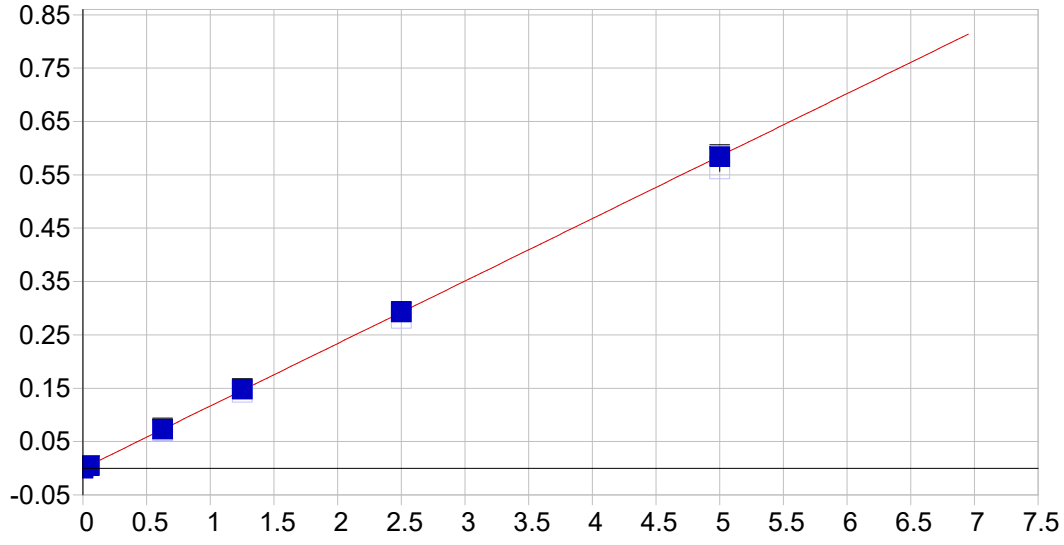
Na 818.326 { 41}

Date of Fit:	01/05/2025 18:00:22	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.067715	Re-Slope:	1.000000
A1 (Gain):	0.760094	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.998957	Status:	OK.
Std Error of Est:	0.107438		
Predicted MDL:	0.019063		
Predicted MQL:	0.063543		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00236	.002	.000	.06951	.023	1
S1	5.0000	4.0331	-.967	-19.3	3.1333	.014	1
S2	37.500	31.589	-5.91	-15.8	24.078	.261	1
S3	75.000	67.943	-7.06	-9.41	51.711	.287	1
S4	150.00	142.03	-7.97	-5.32	108.02	.479	1
S5	300.00	299.15	-.852	-.284	227.45	1.53	1
S6	800.00	822.76	22.8	2.85	625.44	3.20	1

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5



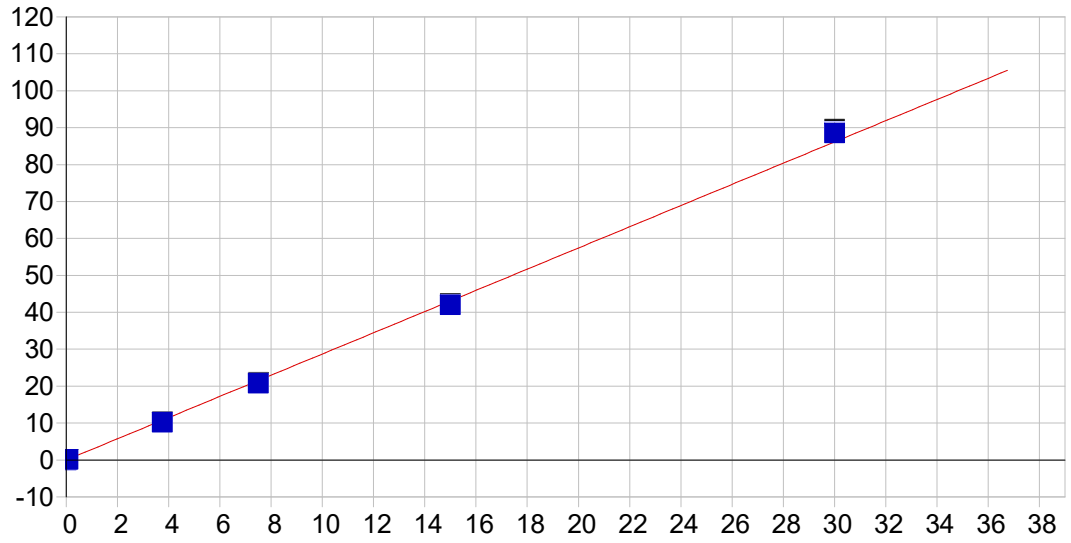
V 292.402 {115}

Date of Fit:	01/05/2025 18:00:22	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000405	Re-Slope:	1.000000
A1 (Gain):	0.117105	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999919	Status:	OK.
Std Error of Est:	0.000038		
Predicted MDL:	0.011973		
Predicted MQL:	0.039910		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00001	.000	.000	-.00040	.001	1
S1	.05000	.04237	-.008	-15.3	.00454	.001	1
S2	.62500	.62509	.000	.014	.06986	.002	1
S3	1.2500	1.2670	.017	1.36	.14210	.001	1
S4	2.5000	2.5001	.000	.003	.28064	.001	1
S5	5.0000	4.9907	-.009	-.185	.56057	.004	1

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

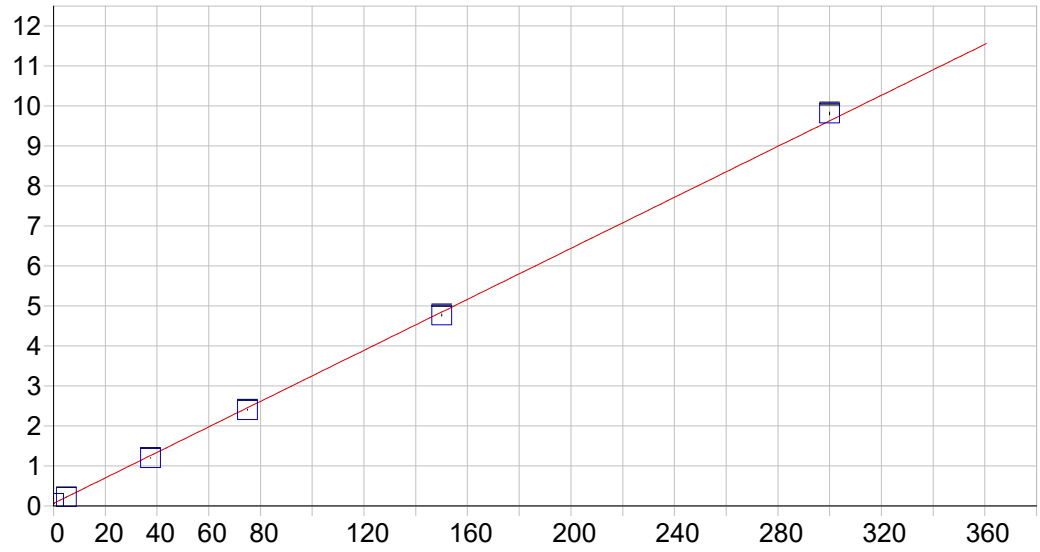


Zn 213.856 {158}

Date of Fit:	01/05/2025 18:00:22	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000830	Re-Slope:	1.000000
A1 (Gain):	2.871072	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999534	Status:	OK.
Std Error of Est:	0.006270		
Predicted MDL:	0.000629		
Predicted MQL:	0.002096		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00084	.002	1
S1	.06000	.06251	.003	4.18	.18083	.001	1
S2	3.7500	3.5589	-.191	-5.09	10.271	.046	1
S3	7.5000	7.2216	-.278	-3.71	20.840	.189	1
S4	15.000	14.626	-.374	-2.49	42.205	.172	1
S5	30.000	30.841	.841	2.80	88.968	.651	1



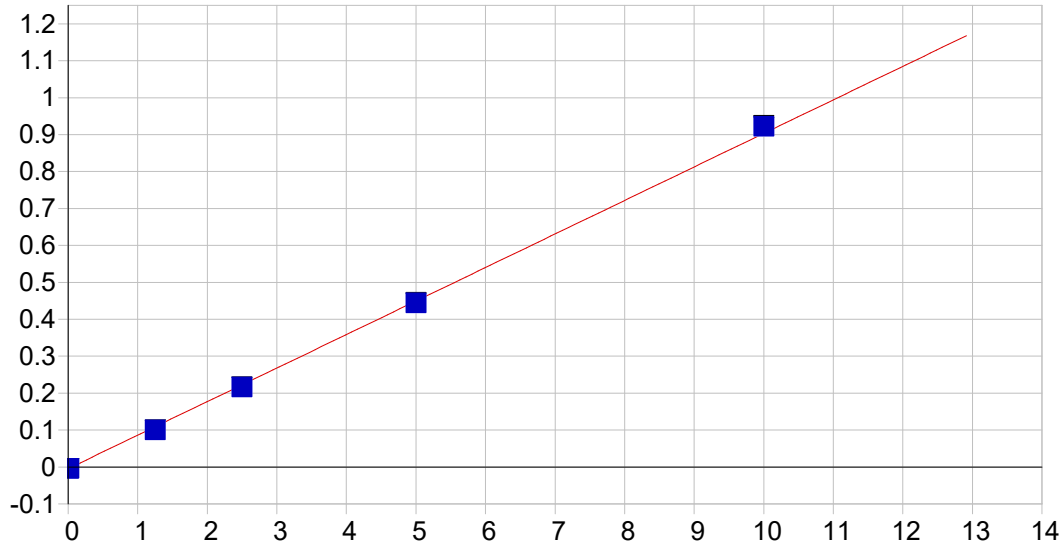
K 769.896 { 44}

Date of Fit:	01/05/2025 18:00:22	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.063339	Re-Slope:	1.000000
A1 (Gain):	0.031889	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999753	Status:	OK.
Std Error of Est:	0.001462		
Predicted MDL:	0.197341		
Predicted MQL:	0.657804		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00032	.000	.000	.06335	.003	1
S1	5.0000	5.0183	.018	.366	.22337	.004	1
S2	37.500	35.607	-1.89	-5.05	1.1988	.007	1
S3	75.000	73.406	-1.59	-2.13	2.4042	.011	1
S4	150.00	147.63	-2.37	-1.58	4.7712	.027	1
S5	300.00	305.84	5.84	1.95	9.8162	.038	1

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5



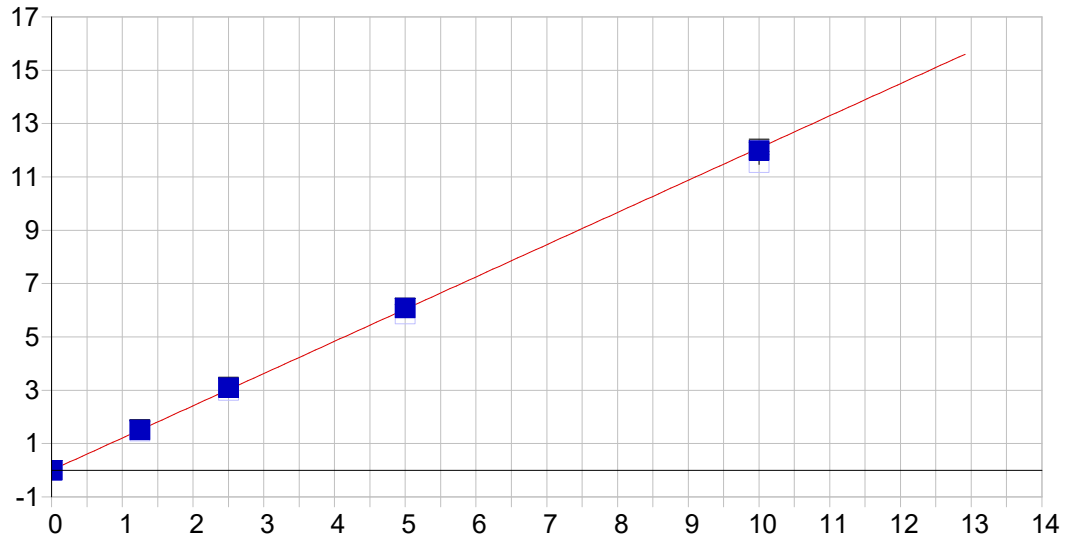
P 177.495 {490}

Date of Fit:	01/05/2025 18:00:22	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.004561	Re-Slope:	1.000000
A1 (Gain):	0.090781	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999618	Status:	OK.
Std Error of Est:	0.000042		
Predicted MDL:	0.003111		
Predicted MQL:	0.010370		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00456	.000	1
S1	.01000	.01146	.001	14.6	-.00352	.000	1
S2	1.2500	1.1556	-.094	-7.55	.10018	.000	1
S3	2.5000	2.4341	-.066	-2.64	.21608	.000	1
S4	5.0000	4.9444	-.056	-1.11	.44364	.002	1
S5	10.000	10.214	.214	2.14	.92139	.003	1

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5



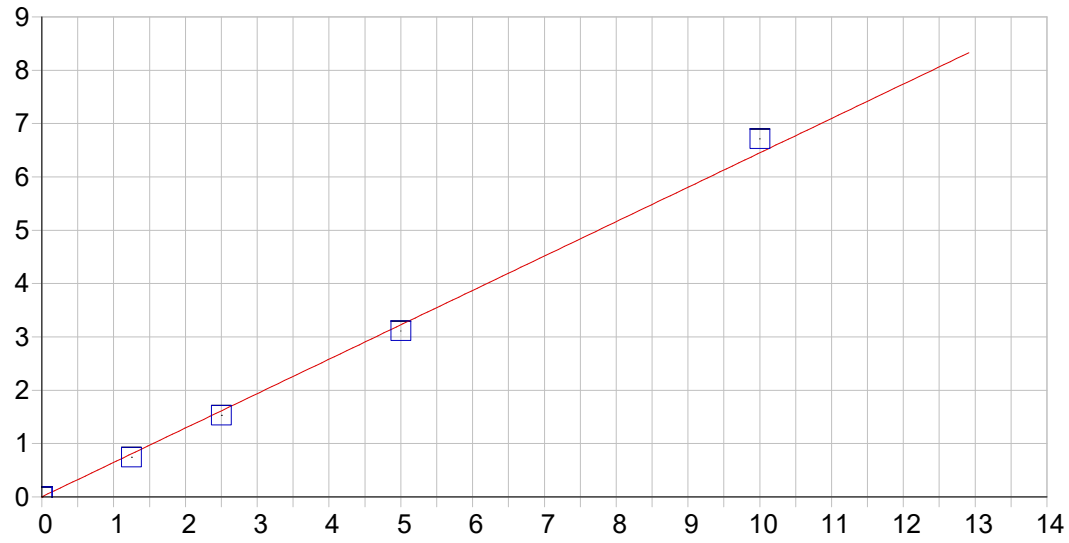
B 249.678 {135}

Date of Fit:	01/05/2025 18:00:22	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.001076	Re-Slope:	1.000000
A1 (Gain):	1.208104	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999544	Status:	OK.
Std Error of Est:	0.000589		
Predicted MDL:	0.002066		
Predicted MQL:	0.006888		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00001	.000	.000	.00109	.003	1
S1	.01000	-.00162	-.012	-116.	-.00095	.000	1
S2	1.2500	1.2507	.001	.056	1.4546	.010	1
S3	2.5000	2.5619	.062	2.48	2.9813	.024	1
S4	5.0000	5.0295	.029	.589	5.8475	.005	1
S5	10.000	9.9200	-.080	-.800	11.526	.059	1

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5



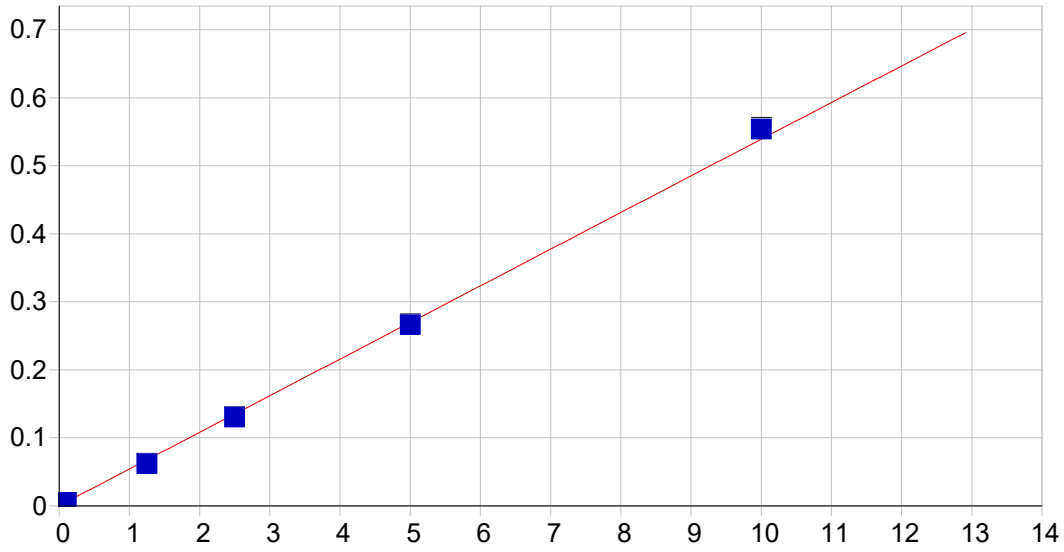
Mo 202.030 {467}

Date of Fit:	01/05/2025 18:00:22	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.001600	Re-Slope:	1.000000
A1 (Gain):	0.644935	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.998996	Status:	OK.
Std Error of Est:	0.000485		
Predicted MDL:	0.000753		
Predicted MQL:	0.002509		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00160	.000	1
S1	.01000	.00957	-.000	-4.34	.00777	.000	1
S2	1.2500	1.1502	-.100	-7.98	.74342	.001	1
S3	2.5000	2.3706	-.129	-5.18	1.5305	.002	1
S4	5.0000	4.8215	-.178	-3.57	3.1112	.002	1
S5	10.000	10.408	.408	4.08	6.7142	.004	1

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5



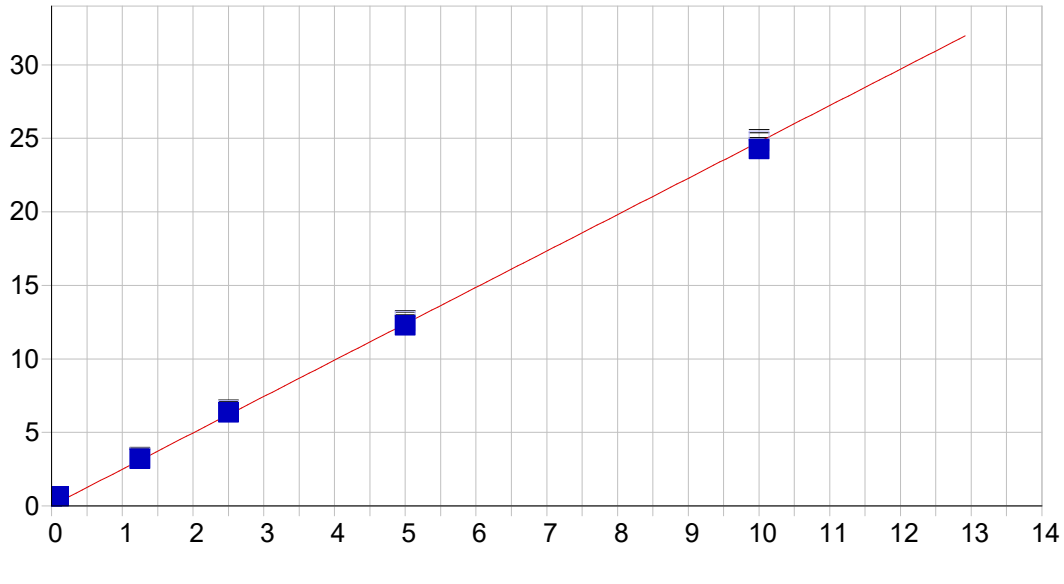
S 182.034 {485}

Date of Fit:	01/05/2025 18:00:22	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000395	Re-Slope:	1.000000
A1 (Gain):	0.053877	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999445	Status:	OK.
Std Error of Est:	0.000096		
Predicted MDL:	0.004701		
Predicted MQL:	0.015671		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00002	.000	.000	.00040	.000	1
S1	.10000	.08935	-.011	-10.6	.00521	.000	1
S2	1.2500	1.1468	-.103	-8.26	.06240	.000	1
S3	2.5000	2.4099	-.090	-3.60	.13067	.000	1
S4	5.0000	4.9337	-.066	-1.33	.26708	.001	1
S5	10.000	10.270	.270	2.70	.55546	.001	1

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5



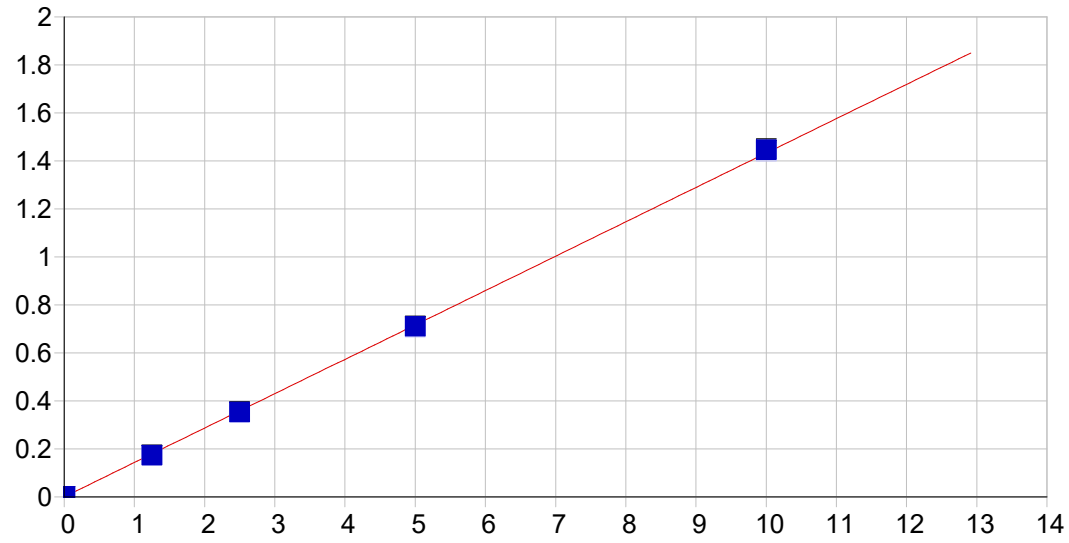
Si 251.611 {134}

Date of Fit:	01/05/2025 18:00:22	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.017318	Re-Slope:	1.000000
A1 (Gain):	2.474255	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.993623	Status:	OK.
Std Error of Est:	0.015259		
Predicted MDL:	0.001032		
Predicted MQL:	0.003441		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00016	-.000	.000	.01692	.002	1
S1	.10000	.25708	.157	157.	.65689	.004	1
S2	1.2500	1.2843	.034	2.74	3.2651	.040	1
S3	2.5000	2.5591	.059	2.37	6.4897	.047	1
S4	5.0000	4.9522	-.048	-.956	12.551	.043	1
S5	10.000	9.7986	-.201	-2.01	24.823	.110	1

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

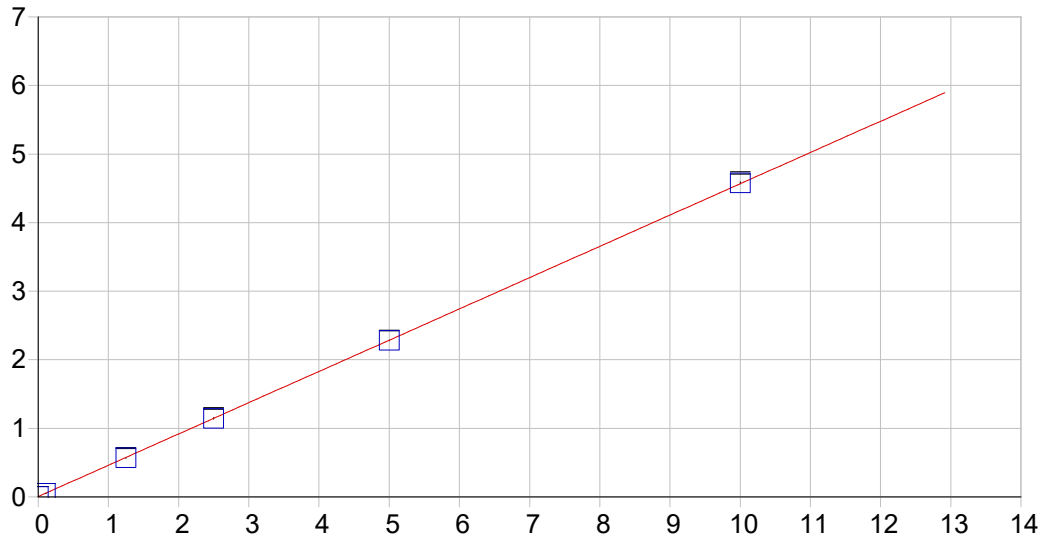


Sn 189.989 {478}

Date of Fit:	01/05/2025 18:00:22	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000332	Re-Slope:	1.000000
A1 (Gain):	0.143226	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.998813	Status:	OK.
Std Error of Est:	0.000097		
Predicted MDL:	0.001584		
Predicted MQL:	0.005280		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00002	-.000	.000	.00033	.000	1
S1	.00700	.02397	.017	242.	.00372	.000	1
S2	1.2500	1.2104	-.040	-3.17	.17280	.000	1
S3	2.5000	2.4668	-.033	-1.33	.35184	.001	1
S4	5.0000	4.9590	-.041	-.820	.70700	.002	1
S5	10.000	10.097	.097	.975	1.4394	.005	1



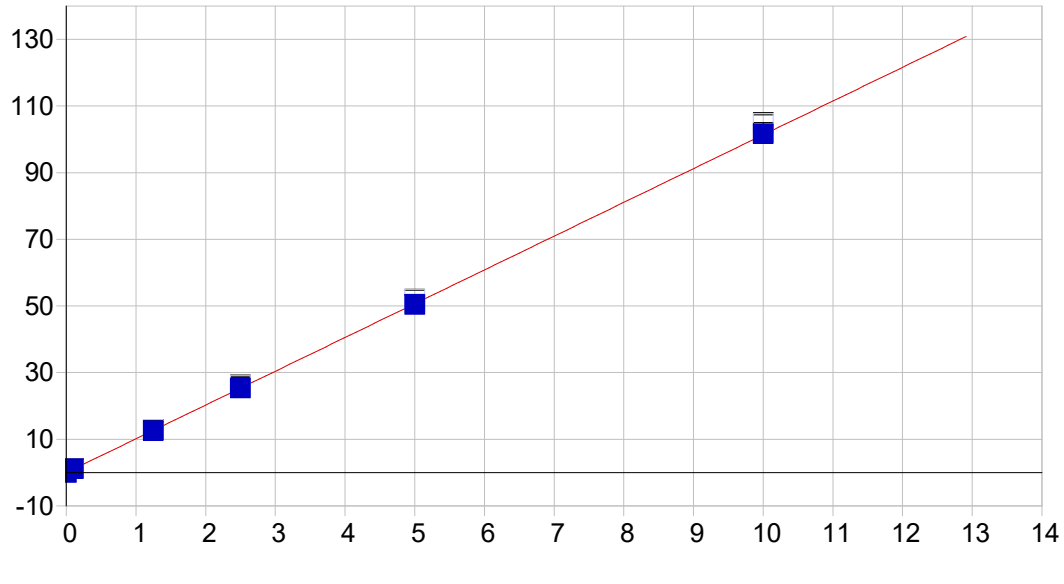
Ti 336.121 {100}

Date of Fit:	01/05/2025 18:00:22	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.005599	Re-Slope:	1.000000
A1 (Gain):	0.456054	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999989	Status:	OK.
Std Error of Est:	0.000112		
Predicted MDL:	0.004657		
Predicted MQL:	0.015524		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00560	.003	1
S1	.10000	.09775	-.002	-2.25	.05018	.001	1
S2	1.2500	1.2318	-.018	-1.45	.56739	.006	1
S3	2.5000	2.4994	-.001	-.024	1.1455	.011	1
S4	5.0000	4.9931	-.007	-.138	2.2827	.006	1
S5	10.000	10.028	.028	.279	4.5789	.016	1

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

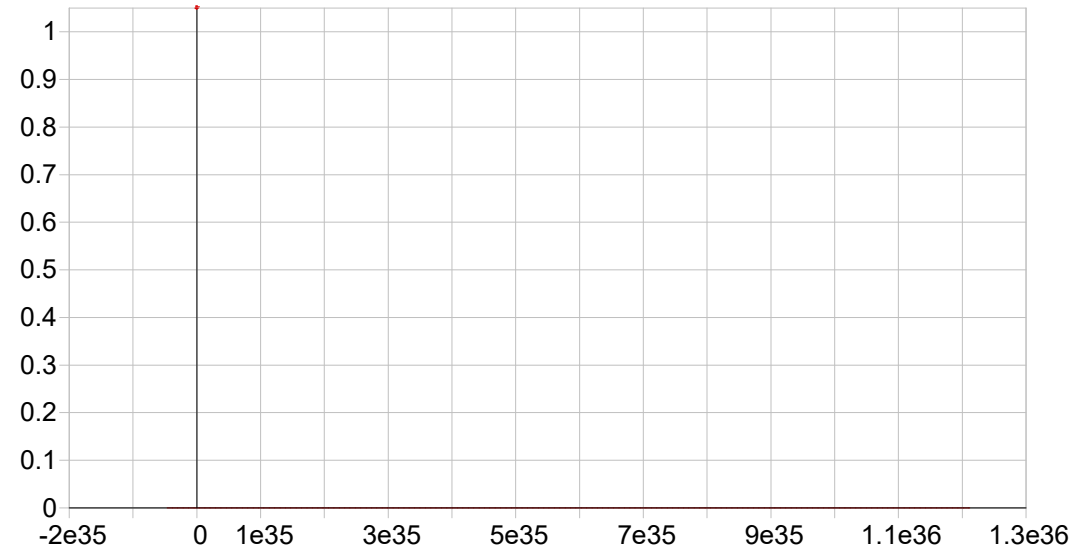


Sr 407.771 { 83}

Date of Fit:	01/05/2025 18:00:22	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.004070	Re-Slope:	1.000000
A1 (Gain):	10.135948	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999964	Status:	OK.
Std Error of Est:	0.004683		
Predicted MDL:	0.000286		
Predicted MQL:	0.000954		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00001	-.000	.000	-.00416	.003	1
S1	.10000	.11007	.010	10.1	1.1126	.013	1
S2	1.2500	1.2365	-.014	-1.08	12.909	.056	1
S3	2.5000	2.5013	.001	.054	26.110	.159	1
S4	5.0000	4.9712	-.029	-.576	51.904	.158	1
S5	10.000	10.031	.031	.312	104.71	.363	1

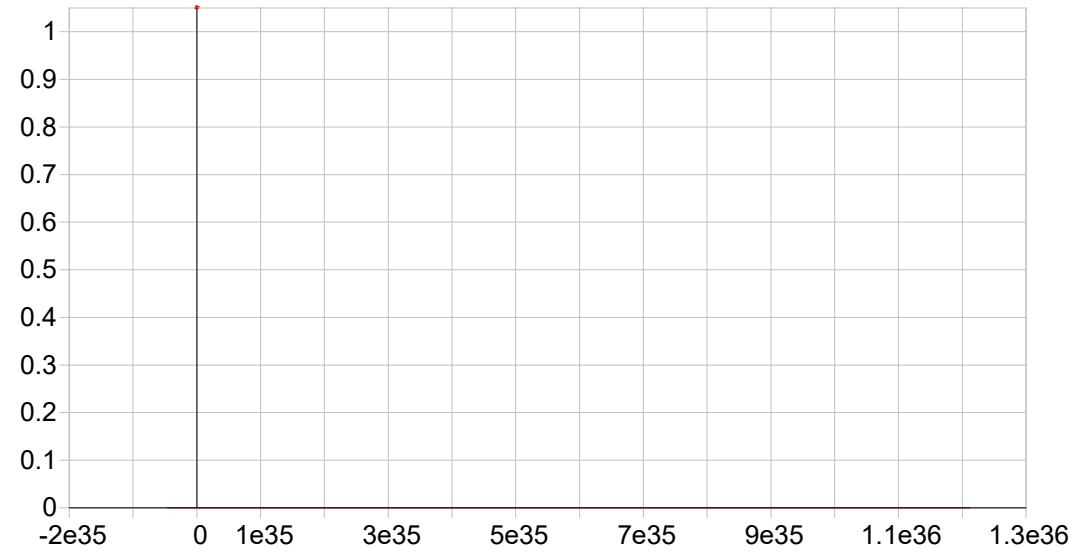


Y 224.306 {450}*

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

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

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



Y 360.073 { 94}*

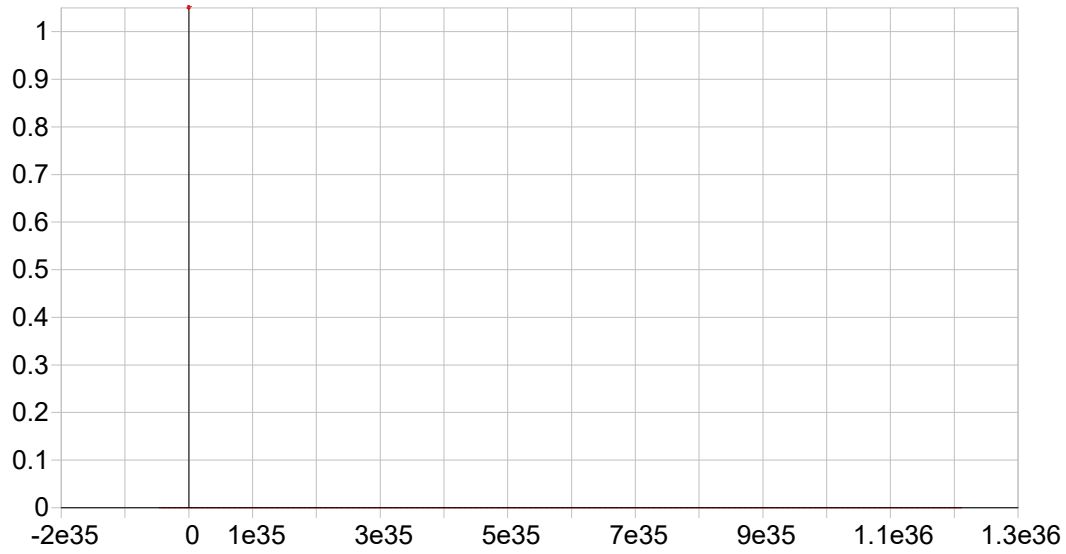
Date of Fit:	<not fit>	Type of Fit:	Linear	Weighting:	1/Conc

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

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

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

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



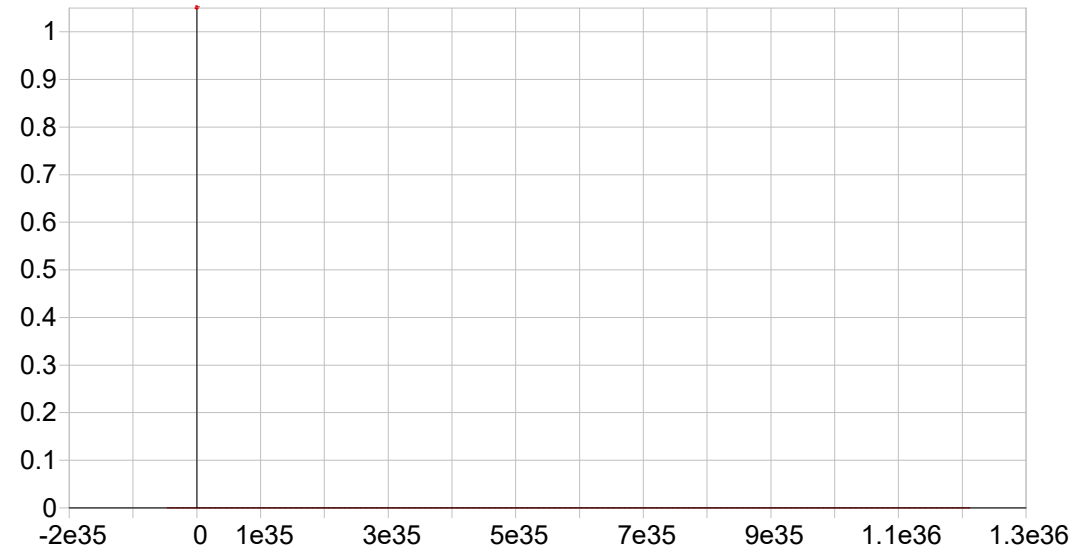
Y 371.030 { 91}*

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

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

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

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

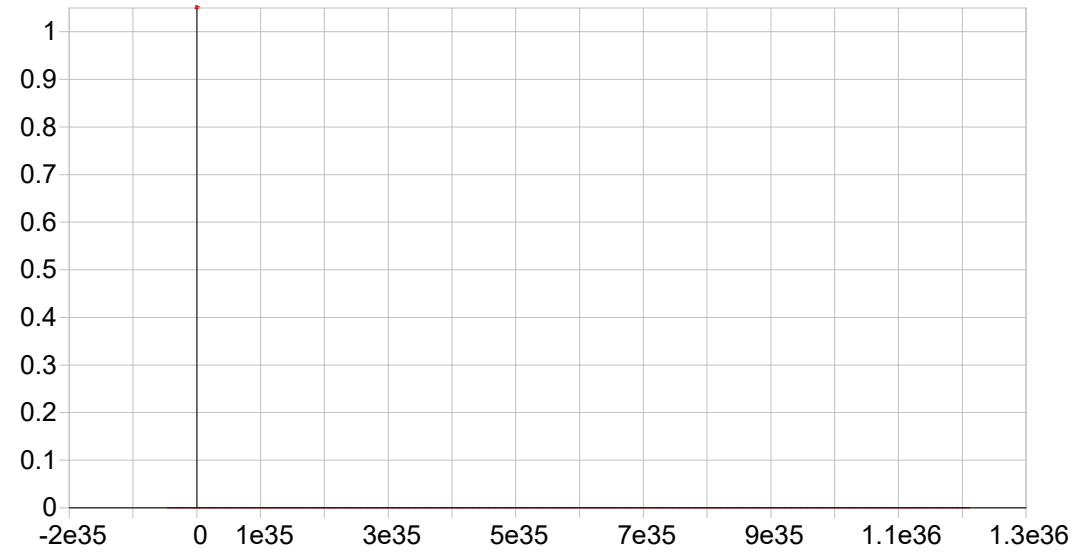


Y 224.306 {150}*

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

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

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



In 230.606 {446}*

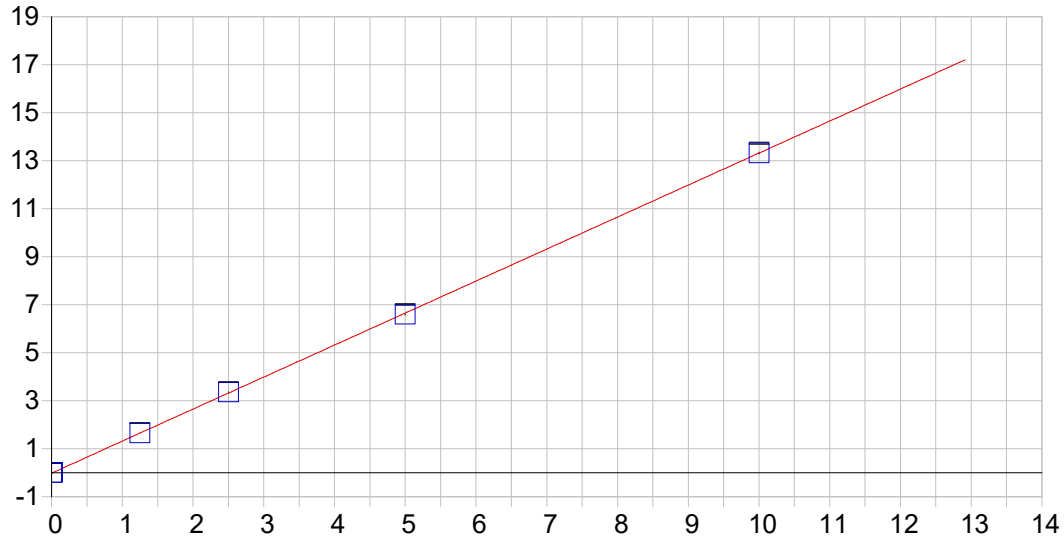
Date of Fit:	<not fit>	Type of Fit:	Linear	Weighting:	1/Conc

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

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

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



Li 670.784 { 50}

Date of Fit:	01/05/2025 18:00:22	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.015773	Re-Slope:	1.000000
A1 (Gain):	1.333630	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999932	Status:	OK.
Std Error of Est:	0.000319		
Predicted MDL:	0.004467		
Predicted MQL:	0.014891		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00001	-.000	.000	-.01578	.006	1
S5	10.000	10.001	.001	.015	13.322	.036	1
S4	5.0000	4.9589	-.041	-.823	6.5975	.025	1
S3	2.5000	2.5300	.030	1.20	3.3583	.011	1
S2	1.2500	1.2545	.004	.358	1.6572	.003	1
S1	.01500	.02025	.005	35.0	.01123	.004	1

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: S0 Acquired: 01/05/2025 16:31:03 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: S0 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	.71861	-.00024	-.00143	-.00028	-.00003	-.00264	.19143	.00360
Stddev	.55451	.00005	.00081	.00022	.00024	.00444	.00390	.00099
%RSD	77.165	22.592	56.451	77.675	824.48	167.97	2.0351	27.578
#1	1.3170	-.00027	-.00131	-.00008	.00001	-.00385	.19571	.00392
#2	.61658	-.00027	-.00069	-.00025	.00019	-.00636	.19048	.00440
#3	.22219	-.00018	-.00230	-.00051	-.00029	.00228	.18809	.00249

Elem	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598	Mn2576	Mg2790
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.00053	.00829	-.00006	-.00144	.00371	.00002	.00340	-.00092
Stddev	.00020	.00232	.00030	.00003	.00098	.00108	.00167	.00073
%RSD	37.933	27.942	545.38	2.4250	26.331	5797.6	49.024	79.548
#1	.00051	.00669	.00011	-.00148	.00469	.00114	.00259	-.00009
#2	.00034	.00723	-.00041	-.00142	.00273	-.00102	.00229	-.00149
#3	.00074	.01094	.00013	-.00141	.00372	-.00007	.00531	-.00119

Elem	Ni2316	Ag3280	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	-.00185	.00045	.06951	-.00040	.00084	.06335	-.00456	.00109
Stddev	.00007	.00055	.02348	.00119	.00240	.00264	.00023	.00312
%RSD	3.9467	120.56	33.773	294.74	285.95	4.1675	4.9870	286.41
#1	-.00187	.00106	.09443	.00001	.00227	.06155	-.00440	-.00173
#2	-.00177	.00028	.04781	-.00175	.00217	.06638	-.00482	.00444
#3	-.00191	.00002	.06629	.00052	-.00193	.06211	-.00447	.00055

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077	Li6707
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.00160	.00040	.01692	.00033	.00560	-.00416	-.01578
Stddev	.00048	.00005	.00241	.00007	.00296	.00264	.00597
%RSD	30.228	13.599	14.239	21.037	52.841	63.487	37.821
#1	.00135	.00044	.01765	.00038	.00244	-.00635	-.02151
#2	.00216	.00034	.01423	.00025	.00831	-.00123	-.00960
#3	.00130	.00041	.01889	.00036	.00605	-.00490	-.01624

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: S0 Acquired: 01/05/2025 16:31:03 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: S0 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	1782.7	17676.	1658.1	1296.3	2000.4
Stddev	1.9	125.	5.5	8.6	1.8
%RSD	.10598	.70965	.33004	.66069	.09206
#1	1782.6	17709.	1664.4	1294.5	1999.4
#2	1784.6	17781.	1654.2	1305.7	2002.6
#3	1780.8	17537.	1655.7	1288.8	1999.3

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: S1 Acquired: 01/05/2025 16:35:12 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: S01 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	1.8364	.00196	.00222	.00200	.00925	.02543	.91188	.08289
Stddev	.3234	.00009	.00107	.00036	.00027	.00334	.00376	.00504
%RSD	17.612	4.4838	48.379	17.895	2.9620	13.139	.41233	6.0827
#1	2.1714	.00203	.00146	.00159	.00948	.02923	.90778	.07880
#2	1.5259	.00199	.00175	.00225	.00895	.02298	.91517	.08135
#3	1.8120	.00186	.00345	.00217	.00934	.02407	.91269	.08852

Elem	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598	Mn2576	Mg2790
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.02339	.31243	.00390	.06077	.00842	.00230	.01064	.07093
Stddev	.00043	.00166	.00017	.00022	.00157	.00105	.00070	.00050
%RSD	1.8269	.53193	4.4843	.35635	18.614	45.705	6.6200	.70647
#1	.02388	.31397	.00406	.06057	.00845	.00237	.01143	.07134
#2	.02325	.31265	.00372	.06100	.00997	.00331	.01007	.07109
#3	.02306	.31067	.00392	.06075	.00683	.00122	.01042	.07037

Elem	Ni2316	Ag3280	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.02619	.00394	3.1333	.00454	.18083	.22337	-.00352	-.00095
Stddev	.00016	.00045	.0141	.00124	.00120	.00446	.00036	.00025
%RSD	.61029	11.434	.45036	27.204	.66531	1.9985	10.224	26.378
#1	.02612	.00359	3.1495	.00313	.17944	.21889	-.00371	-.00115
#2	.02608	.00445	3.1236	.00507	.18152	.22782	-.00310	-.00067
#3	.02637	.00378	3.1268	.00542	.18152	.22339	-.00374	-.00101

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077	Li6707
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.00777	.00521	.65689	.00372	.05018	1.1126	.01123
Stddev	.00041	.00022	.00356	.00025	.00077	.0129	.00384
%RSD	5.2375	4.2648	.54138	6.5877	1.5256	1.1622	34.236
#1	.00730	.00527	.65777	.00394	.05105	1.1159	.01564
#2	.00806	.00496	.65298	.00377	.04985	1.1235	.00860
#3	.00795	.00540	.65993	.00345	.04963	1.0983	.00945

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: S1 Acquired: 01/05/2025 16:35:12 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: S01 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	1764.7	17568.	1631.3	1287.4	1985.7
Stddev	.5	119.	7.7	4.9	.7
%RSD	.02904	.67985	.46981	.37833	.03683
#1	1764.8	17615.	1623.6	1281.8	1985.5
#2	1764.1	17432.	1631.2	1290.6	1985.1
#3	1765.1	17656.	1638.9	1289.8	1986.5

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: S2 Acquired: 01/05/2025 16:39:19 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: S02 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	166.48	.11803	1.7765	.07720	.20053	4.2242	8.5001	1.8186
Stddev	.21	.00015	.0044	.00093	.00066	.0335	.0218	.0217
%RSD	.12566	.12427	.24892	1.1991	.33160	.79401	.25609	1.1955
#1	166.31	.11815	1.7770	.07644	.20106	4.2480	8.5154	1.8437
#2	166.72	.11786	1.7719	.07823	.19979	4.1858	8.4752	1.8055
#3	166.42	.11807	1.7807	.07693	.20075	4.2387	8.5096	1.8065

Elem	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598	Mn2576	Mg2790
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2.8005	3.5694	1.4390	.73879	.59092	.98404	1.8379	.80627
Stddev	.0063	.0201	.0016	.00096	.00426	.00635	.0053	.00646
%RSD	.22398	.56394	.10945	.13029	.72008	.64548	.28698	.80087
#1	2.7990	3.5882	1.4401	.73864	.59289	.99127	1.8424	.80928
#2	2.7951	3.5481	1.4372	.73790	.58604	.97935	1.8321	.79886
#3	2.8074	3.5719	1.4397	.73981	.59383	.98149	1.8391	.81067

Elem	Ni2316	Ag3280	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.42698	.10187	24.078	.06986	10.271	1.1988	.10018	1.4546
Stddev	.00153	.00037	.261	.00228	.046	.0071	.00036	.0105
%RSD	.35784	.35948	1.0829	3.2669	.44757	.59545	.35956	.72085
#1	.42732	.10145	24.379	.07163	10.219	1.1948	.10046	1.4666
#2	.42530	.10212	23.924	.07067	10.295	1.1946	.09978	1.4503
#3	.42830	.10203	23.931	.06729	10.301	1.2071	.10031	1.4470

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077	Li6707
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.74342	.06240	3.2651	.17280	.56739	12.909	1.6572
Stddev	.00094	.00036	.0403	.00043	.00632	.056	.0031
%RSD	.12660	.58466	1.2359	.25027	1.1133	.43080	.18494
#1	.74239	.06224	3.3117	.17237	.57440	12.945	1.6576
#2	.74364	.06282	3.2428	.17278	.56215	12.845	1.6540
#3	.74423	.06214	3.2409	.17323	.56561	12.937	1.6601

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: S2 Acquired: 01/05/2025 16:39:19 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: S02 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	1698.3	17063.	1615.8	1231.2	1817.1
Stddev	2.5	124.	18.4	9.7	3.4
%RSD	.14505	.72701	1.1376	.79029	.18905
#1	1700.8	17053.	1595.9	1236.5	1814.1
#2	1698.3	17192.	1632.2	1237.2	1820.8
#3	1695.9	16944.	1619.3	1220.0	1816.4

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: S3 Acquired: 01/05/2025 16:43:09 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: S03 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	329.72	.24002	3.6232	.15928	.41226	8.5352	17.153	3.6575
Stddev	.72	.00030	.0021	.00150	.00094	.0794	.085	.0302
%RSD	.21714	.12430	.05678	.93917	.22680	.92968	.49501	.82438
#1	329.15	.23969	3.6256	.15757	.41209	8.5443	17.055	3.6354
#2	329.48	.24010	3.6218	.15994	.41143	8.4517	17.211	3.6452
#3	330.52	.24027	3.6223	.16034	.41327	8.6096	17.191	3.6918

Elem	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598	Mn2576	Mg2790
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5.7239	7.1915	2.8791	1.4983	1.1928	1.9716	3.6867	1.6211
Stddev	.0021	.0214	.0046	.0008	.0068	.0152	.0273	.0134
%RSD	.03599	.29683	.15885	.05604	.57038	.77068	.74052	.82783
#1	5.7221	7.1800	2.8843	1.4991	1.1923	1.9667	3.6859	1.6194
#2	5.7235	7.1784	2.8762	1.4984	1.1862	1.9596	3.6598	1.6086
#3	5.7262	7.2161	2.8767	1.4974	1.1998	1.9887	3.7144	1.6353

Elem	Ni2316	Ag3280	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.88028	.20730	51.711	.14210	20.840	2.4042	.21608	2.9813
Stddev	.00096	.00043	.287	.00120	.189	.0108	.00038	.0237
%RSD	.10915	.20976	.55477	.84374	.90459	.45087	.17666	.79401
#1	.87927	.20779	51.433	.14310	21.054	2.3917	.21652	2.9562
#2	.88039	.20716	51.695	.14244	20.765	2.4107	.21585	2.9842
#3	.88118	.20696	52.006	.14077	20.700	2.4102	.21586	3.0033

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077	Li6707
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1.5305	.13067	6.4897	.35184	1.1455	26.110	3.3583
Stddev	.0018	.00048	.0475	.00061	.0110	.159	.0106
%RSD	.11434	.36438	.73184	.17285	.96275	.61066	.31493
#1	1.5310	.13020	6.4480	.35218	1.1466	26.084	3.3465
#2	1.5319	.13115	6.4797	.35114	1.1339	25.965	3.3616
#3	1.5285	.13066	6.5414	.35221	1.1558	26.280	3.3668

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: S3 Acquired: 01/05/2025 16:43:09 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: S03 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	1628.7	16732.	1592.5	1188.5	1730.1
Stddev	2.1	75.	7.6	13.8	4.0
%RSD	.12792	.44604	.47987	1.1606	.23217
#1	1627.8	16654.	1597.1	1172.9	1729.3
#2	1631.0	16738.	1596.7	1193.9	1734.4
#3	1627.1	16803.	1583.7	1198.9	1726.5

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: S4 Acquired: 01/05/2025 16:46:56 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: S04 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	637.83	.47364	7.2949	.32057	.84209	17.014	33.893	7.0519
Stddev	2.66	.00097	.0107	.00041	.00043	.071	.137	.0294
%RSD	.41646	.20459	.14698	.12637	.05156	.41785	.40298	.41669
#1	636.58	.47318	7.2827	.32098	.84159	17.073	33.947	7.0815
#2	636.04	.47475	7.3028	.32055	.84226	16.935	33.995	7.0514
#3	640.88	.47298	7.2993	.32017	.84241	17.035	33.738	7.0227

Elem	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598	Mn2576	Mg2790
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	11.386	14.095	5.6639	2.9594	2.3553	3.8909	7.2485	3.2019
Stddev	.018	.057	.0169	.0070	.0021	.0098	.0248	.0108
%RSD	.15861	.40603	.29874	.23683	.08728	.25139	.34253	.33672
#1	11.367	14.136	5.6822	2.9528	2.3551	3.9000	7.2769	3.2108
#2	11.403	14.119	5.6489	2.9667	2.3575	3.8806	7.2376	3.1899
#3	11.388	14.029	5.6606	2.9587	2.3534	3.8922	7.2309	3.2051

Elem	Ni2316	Ag3280	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1.7556	.41439	108.02	.28064	42.205	4.7712	.44364	5.8475
Stddev	.0027	.00112	.48	.00109	.172	.0269	.00155	.0046
%RSD	.15251	.26954	.44378	.38776	.40746	.56391	.34869	.07881
#1	1.7542	.41538	108.57	.28145	42.029	4.8019	.44227	5.8522
#2	1.7587	.41318	107.71	.27940	42.373	4.7601	.44531	5.8430
#3	1.7539	.41461	107.78	.28106	42.212	4.7516	.44332	5.8472

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077	Li6707
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3.1112	.26708	12.551	.70700	2.2827	51.904	6.5975
Stddev	.0018	.00068	.043	.00179	.0062	.158	.0250
%RSD	.05700	.25643	.34301	.25354	.27159	.30492	.37938
#1	3.1096	.26656	12.597	.70537	2.2898	52.064	6.6008
#2	3.1131	.26682	12.545	.70892	2.2781	51.747	6.6207
#3	3.1109	.26785	12.512	.70672	2.2803	51.901	6.5710

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: S4 Acquired: 01/05/2025 16:46:56 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: S04 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	1532.1	16122.	1572.6	1109.7	1643.3
Stddev	5.2	125.	13.8	4.6	6.2
%RSD	.33660	.77304	.88008	.41026	.37816
#1	1527.2	15978.	1556.7	1105.2	1640.0
#2	1531.8	16201.	1580.0	1109.4	1639.5
#3	1537.5	16186.	1581.2	1114.3	1650.5

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: S5 Acquired: 01/05/2025 16:50:42 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: S05 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	1234.0	.93750	14.817	.67490	1.8233	34.699	68.934	14.065
Stddev	4.3	.00239	.031	.00174	.0031	.104	.229	.078
%RSD	.35089	.25509	.20989	.25772	.17114	.29855	.33242	.55412
#1	1231.5	.93528	14.788	.67448	1.8265	34.689	68.831	13.996
#2	1231.5	.93718	14.812	.67341	1.8203	34.807	69.197	14.149
#3	1239.0	.94003	14.850	.67681	1.8230	34.601	68.775	14.051

Elem	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598	Mn2576	Mg2790
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	22.886	28.115	11.206	5.9696	4.7481	7.7361	14.360	6.4026
Stddev	.049	.075	.015	.0137	.0089	.0131	.041	.0199
%RSD	.21379	.26673	.13508	.23020	.18804	.16952	.28485	.31104
#1	22.835	28.072	11.210	5.9559	4.7441	7.7272	14.340	6.4033
#2	22.889	28.202	11.190	5.9696	4.7584	7.7512	14.407	6.4222
#3	22.933	28.072	11.220	5.9834	4.7419	7.7300	14.332	6.3824

Elem	Ni2316	Ag3280	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3.5505	.84378	227.45	.56057	88.968	9.8162	.92139	11.526
Stddev	.0076	.00145	1.53	.00387	.651	.0379	.00273	.059
%RSD	.21328	.17229	.67192	.69083	.73145	.38600	.29604	.51568
#1	3.5452	.84235	227.69	.56140	89.707	9.7943	.92005	11.503
#2	3.5472	.84373	225.81	.56396	88.479	9.8600	.91960	11.594
#3	3.5592	.84525	228.84	.55635	88.719	9.7943	.92453	11.482

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077	Li6707
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6.7142	.55546	24.823	1.4394	4.5789	104.71	13.322
Stddev	.0038	.00120	.110	.0048	.0162	.36	.036
%RSD	.05636	.21581	.44288	.33153	.35319	.34689	.27027
#1	6.7181	.55410	24.761	1.4344	4.5735	104.68	13.301
#2	6.7105	.55588	24.950	1.4398	4.5970	105.09	13.364
#3	6.7139	.55639	24.759	1.4439	4.5660	104.36	13.302

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: S5 Acquired: 01/05/2025 16:50:42 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: S05 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	1365.2	15667.	1541.8	987.29	1538.7
Stddev	6.3	78.	4.0	10.97	4.5
%RSD	.45905	.49540	.26093	1.1106	.29437
#1	1359.5	15596.	1538.6	974.78	1535.4
#2	1364.2	15750.	1540.6	995.23	1536.8
#3	1371.9	15655.	1546.3	991.86	1543.9

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: S6 Acquired: 01/05/2025 16:54:37 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: S06 Custom ID2: Custom ID3:
Comment:

Elem	Al3961	Ca3736	Fe2598	Mg2790	Na8183
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	91.207	44.962	20.304	10.214	625.44
Stddev	.538	.221	.097	.053	3.20
%RSD	.59028	.49168	.47866	.51742	.51120
#1	90.706	44.864	20.222	10.158	627.67
#2	91.776	45.215	20.412	10.263	621.78
#3	91.140	44.807	20.279	10.221	626.88

Int. Std.	Y_3710
Units	Cts/S
Avg	1497.5
Stddev	8.3
%RSD	.55098
#1	1503.0
#2	1488.0
#3	1501.5

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: ICV052 Acquired: 01/05/2025 17:52:32 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICV052 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.070946	1.007561	.9865150	.9705225	.9141464	2.431814
Stddev	.003311	.008441	.0001173	.0123505	.0064915	.024274
%RSD	.3092110	.8377585	.0118854	1.272561	.7101177	.9981871
#1	1.067171	1.000772	.9864043	.9593759	.9081765	2.416212
#2	1.072308	1.017012	.9866379	.9683918	.9210569	2.419449
#3	1.073360	1.004898	.9865029	.9837997	.9132058	2.459780

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5121930	.5260172	.5002851	10.23665	.5498941	.5060056
Stddev	.0043946	.0032856	.0000662	.05443	.0008268	.0010060
%RSD	.8580042	.6246222	.0132420	.5316752	.1503618	.1988130
#1	.5081969	.5292277	.5002440	10.23293	.5508310	.5049455
#2	.5114825	.5226613	.5002498	10.18419	.5495849	.5069470
#3	.5168996	.5261626	.5003615	10.29285	.5492665	.5061244

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4864227	10.40808	.5278705	6.149313	.5152563	.2479003
Stddev	.0117038	.11248	.0038174	.074198	.0009489	.0029577
%RSD	2.406094	1.080678	.7231661	1.206600	.1841531	1.193094
#1	.4912547	10.49186	.5260877	6.064489	.5163418	.2446700
#2	.4730765	10.28024	.5252707	6.202159	.5148424	.2504756
#3	.4949367	10.45214	.5322531	6.181292	.5145846	.2485552

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	10.39340	.5084120	.9455580	9.281784	F .0000955	F -.024832
Stddev	.05644	.0199257	.0010821	.210543	.0015084	.000911
%RSD	.5430806	3.919209	.1144446	2.268347	1579.043	3.668179
#1	10.44400	.5192918	.9443611	9.170448	.0016415	-.025005
#2	10.33252	.4854149	.9458458	9.150285	-.001372	-.025645
#3	10.40368	.5205294	.9464672	9.524620	.000017	-.023848

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: ICV052 Acquired: 01/05/2025 17:52:32 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICV052 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F .0005396	F .0061537	F .0004550	F -.000525	F -.004611	F -.009057
Stddev	.0004533	.0014465	.0005209	.000990	.001848	.000399
%RSD	84.00606	23.50654	114.4592	188.4194	40.08348	4.410720
#1	.0006965	.0052429	.0006683	-.000336	-.003037	-.009509
#2	.0000287	.0053965	.0008354	.000356	-.006646	-.008751
#3	.0008936	.0078216	-.000139	-.001597	-.004151	-.008911

Elem	Li6707
Units	ppm
Avg	F .0085874
Stddev	.0020996
%RSD	24.45000
#1	.0109958
#2	.0071418
#3	.0076246

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1772.213	17726.47	1661.076	1301.264	1960.586
Stddev	4.304	46.59	11.755	4.505	2.552
%RSD	.2428823	.2628466	.7076589	.3462133	.1301575
#1	1776.984	17723.15	1655.654	1303.425	1963.327
#2	1771.035	17774.63	1674.563	1304.282	1958.279
#3	1768.621	17681.62	1653.010	1296.085	1960.154

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: ICB052 Acquired: 01/05/2025 17:56:26 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICB052 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.001753	-.000465	-.000421	.0068852	-.000007	-.029009	-.004062
Stddev	.004185	.003784	.002502	.0029601	.002093	.041335	.002548
%RSD	238.6892	813.5228	593.7094	42.99134	30289.75	142.4876	62.72856
#1	-.006277	.002561	.000087	.0089763	-.002240	-.027877	-.001227
#2	-.000963	.000752	.001787	.0081812	.000311	-.070899	-.006162
#3	.001980	-.004708	-.003138	.0034982	.001909	.011747	-.004797

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001710	.0000497	.0588119	-.001178	.0002298	-.015339	.0452712
Stddev	.0001444	.0001050	.0125708	.000435	.0001488	.008657	.0746119
%RSD	84.43136	211.2264	21.37462	36.91284	64.75242	56.43840	164.8109
#1	.0001433	.0000599	.0550431	-.001626	.0000861	-.007150	.1314211
#2	.0003273	-.000060	.0485566	-.001152	.0003833	-.024398	.0014395
#3	.0000425	.000149	.0728360	-.000757	.0002201	-.014469	.0029529

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0015288	.0772527	-.000450	.0017135	.0151006	-.011234	.0005803
Stddev	.0027921	.0718007	.001080	.0014854	.0102014	.003643	.0009389
%RSD	182.6326	92.94258	239.9697	86.68738	67.55627	32.42771	161.7846
#1	.0009536	.1297734	.000681	.0028555	.0062292	-.008693	.0014148
#2	-.000931	.1065489	-.001471	.0022509	.0128249	-.009601	-.000436
#3	.004564	-.004564	-.000561	.0000342	.0262476	-.015407	.000762

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0718891	-.000004	.0010680	-.000516	-.002261	-.000195	-.001684
Stddev	.0295797	.003665	.0021120	.000093	.001923	.001610	.001887
%RSD	41.14632	102079.3	197.7649	18.08885	85.05980	826.2090	112.0501
#1	.1012226	-.003002	.0027355	-.000408	-.000146	.001623	.000377
#2	.0723757	.004082	.0017754	-.000563	-.003904	-.001442	-.003326
#3	.0420691	-.001091	-.001307	-.000576	-.002732	-.000766	-.002102

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: ICB052 Acquired: 01/05/2025 17:56:26 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICB052 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	-.004837	-.000233	.0053779
Stddev	.002211	.000145	.0064749
%RSD	45.71481	62.10375	120.3977
#1	-.002297	-.000241	.0011249
#2	-.005888	-.000085	.0021793
#3	-.006328	-.000375	.0128297

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1782.192	17797.95	1649.520	1302.669	1996.559
Stddev	2.695	81.37	17.051	5.340	4.125
%RSD	.1512226	.4571823	1.033715	.4099598	.2066161
#1	1784.392	17876.15	1637.267	1308.540	1997.801
#2	1779.186	17713.74	1642.299	1298.100	1991.956
#3	1782.999	17803.96	1668.993	1301.366	1999.921

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: ICSA052 Acquired: 01/05/2025 18:00:28 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICSA052 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.001838	.0104546	.0039280	.0174211	.0198505	241.9091
Stddev	.002372	.0043426	.0070824	.0044395	.0055605	1.2244
%RSD	129.0945	41.53800	180.3068	25.48340	28.01195	.5061590
#1	-.003912	.0076742	.0121005	.0220017	.0176107	243.3226
#2	-.002349	.0082308	.0001028	.0131376	.0261816	241.2297
#3	.000749	.0154587	-.000419	.0171239	.0157592	241.1750

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0015745	.0015331	.0007291	251.0699	.0516551	.0366801
Stddev	.0020674	.0001187	.0000780	1.1157	.0006495	.0004333
%RSD	131.3020	7.744635	10.70396	.4443918	1.257356	1.181380
#1	.0016303	.0016554	.0006429	252.2795	.0517249	.0364028
#2	-.000520	.0014183	.0007949	250.8493	.0522669	.0371794
#3	.003613	.0015256	.0007494	250.0810	.0509735	.0364580

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.009240	100.8206	.0021529	260.8108	.0004605	-.006957
Stddev	.012002	.3009	.0012320	.9223	.0008538	.000241
%RSD	129.8927	.2984538	57.22556	.3536205	185.4247	3.470852
#1	.004438	101.1614	.0007977	261.6744	.0013283	-.007216
#2	-.014147	100.7086	.0032053	260.9186	.0004315	-.006738
#3	-.018011	100.5917	.0024558	259.8393	-.000379	-.006919

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1831499	.0038318	-.033244	-.109336	.0019774	F -.242978
Stddev	.0150872	.0010298	.000244	.246600	.0036011	.003330
%RSD	8.237600	26.87427	.7340022	225.5434	182.1122	1.370628
#1	.1679848	.0039563	-.033220	.153340	.0017049	-.246190
#2	.1833070	.0047937	-.033499	-.145476	-.001480	-.243203
#3	.1981579	.0027455	-.033013	-.335872	.005707	-.239540

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: ICSA052 Acquired: 01/05/2025 18:00:28 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICSA052 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0073268	.0108564	-.002361	F .0140969	-.009137	.0065239
Stddev	.0006611	.0055986	.001324	.0022779	.002963	.0005515
%RSD	9.023101	51.56961	56.06009	16.15871	32.43161	8.453665
#1	.0075754	.0169223	-.002955	.0116560	-.010921	.0064779
#2	.0078276	.0097594	-.003284	.0161660	-.010773	.0059968
#3	.0065774	.0058875	-.000845	.0144687	-.005716	.0070969

Elem	Li6707
Units	ppm
Avg	.0103355
Stddev	.0015157
%RSD	14.66488
#1	.0091396
#2	.0120401
#3	.0098267

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1651.262	16459.76	1568.455	1212.534	1719.526
Stddev	2.907	91.55	12.436	5.006	4.741
%RSD	.1760563	.5561837	.7928885	.4128147	.2756933
#1	1651.180	16564.78	1554.260	1218.183	1721.031
#2	1654.209	16417.62	1573.675	1210.771	1723.332
#3	1648.397	16396.86	1577.430	1208.649	1714.216

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: ICSAB052 Acquired: 01/05/2025 18:04:27 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICSAB052 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1019978	.1077039	.0478787	.0635296	.5686682	240.4877
Stddev	.0082512	.0042491	.0020008	.0044694	.0027387	1.5659
%RSD	8.089591	3.945206	4.178917	7.035163	.4815934	.6511260
#1	.1075747	.1068162	.0464758	.0585331	.5707484	242.1375
#2	.1058994	.1123268	.0501699	.0671468	.5696910	239.0221
#3	.0925194	.1039688	.0469904	.0649090	.5655654	240.3034

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5194744	.5245903	.9911821	248.7335	.5804513	.5136157
Stddev	.0019996	.0020424	.0005754	.4991	.0017461	.0011656
%RSD	.3849224	.3893324	.0580524	.2006479	.3008264	.2269475
#1	.5171672	.5268686	.9917336	248.6557	.5824144	.5140624
#2	.5207035	.5229236	.9905854	248.2778	.5790713	.5122927
#3	.5205526	.5239785	.9912273	249.2669	.5798682	.5144919

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4569959	100.2442	.5062977	259.2773	.9757948	.2007063
Stddev	.0070270	.4553	.0064494	1.7263	.0003750	.0028040
%RSD	1.537652	.4541833	1.273834	.6658212	.0384279	1.397063
#1	.4647204	100.5397	.5122883	260.8227	.9762277	.2002835
#2	.4509823	99.7199	.4994711	257.4142	.9755696	.1981378
#3	.4552851	100.4730	.5071336	259.5950	.9755871	.2036978

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1972840	.4966401	.9112735	-.308307	.0029374	F -.233950
Stddev	.0163315	.0090101	.0086609	.103083	.0013223	.003096
%RSD	8.278148	1.814214	.9504217	33.43513	45.01701	1.323242
#1	.2161417	.4989392	.9051257	-.418277	.0014173	-.231131
#2	.1877637	.4867032	.9075163	-.213876	.0035728	-.237263
#3	.1879468	.5042780	.9211786	-.292768	.0038221	-.233457

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: ICSAB052 Acquired: 01/05/2025 18:04:27 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICSAB052 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0070452	.0208475	-.001492	F .0127163	-.006551	.0068739
Stddev	.0002794	.0094232	.001354	.0014481	.003043	.0002790
%RSD	3.965393	45.20081	90.77277	11.38763	46.45428	4.059141
#1	.0073426	.0231093	-.002840	.0135576	-.009267	.0070574
#2	.0067883	.0289340	-.000131	.0110442	-.003262	.0065528
#3	.0070048	.0104992	-.001506	.0135471	-.007125	.0070116

Elem	Li6707
Units	ppm
Avg	.0077536
Stddev	.0023718
%RSD	30.58951
#1	.0050364
#2	.0094087
#3	.0088158

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1660.614	16562.08	1586.585	1218.532	1728.749
Stddev	5.390	54.04	7.343	10.602	3.190
%RSD	.3245726	.3262686	.4628085	.8700335	.1845283
#1	1663.378	16515.57	1578.741	1220.376	1730.203
#2	1654.403	16621.36	1593.295	1228.091	1725.092
#3	1664.062	16549.32	1587.720	1207.129	1730.954

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: CCV112 Acquired: 01/05/2025 18:08:18 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV112 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.098118	4.963984	25.48627	5.063594	5.047541	415.5861	10.47188
Stddev	.017452	.020985	.07053	.008856	.016981	2.2671	.05459
%RSD	.3423285	.4227353	.2767390	.1749010	.3364222	.5455227	.5212552
#1	5.102355	4.962230	25.48104	5.069124	5.049833	416.5790	10.49622
#2	5.078937	4.943931	25.41849	5.053379	5.029531	412.9920	10.40936
#3	5.113061	4.985790	25.55926	5.068278	5.063260	417.1875	10.51007

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5230476	2.563179	420.7203	16.09447	2.575646	15.73459	420.6550
Stddev	.0058521	.008305	2.2261	.00343	.009045	.09430	2.0680
%RSD	1.118840	.3240101	.5291123	.0212818	.3511619	.5992981	.4916138
#1	.5293156	2.560775	421.6941	16.09706	2.573166	15.72758	422.0674
#2	.5177271	2.556342	418.1732	16.09577	2.568100	15.64399	418.2814
#3	.5221003	2.572421	422.2935	16.09059	2.585672	15.83219	421.6164

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	15.58254	418.1756	2.582738	1.301137	427.4420	2.592358	15.34937
Stddev	.08578	2.2749	.008048	.002046	5.5572	.021779	.12320
%RSD	.5505171	.5440069	.3116163	.1572274	1.300110	.8401405	.8026392
#1	15.64241	418.5085	2.579067	1.301478	433.6871	2.611753	15.39191
#2	15.48426	415.7526	2.577179	1.298942	423.0422	2.568796	15.44566
#3	15.62095	420.2657	2.591967	1.302991	425.5967	2.596526	15.21054

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	160.5829	5.114659	4.552591	5.003975	5.137845	5.169159	5.169405
Stddev	1.3073	.013263	.043356	.018824	.018730	.063878	.020148
%RSD	.8140688	.2593122	.9523339	.3761791	.3645562	1.235750	.3897522
#1	161.8548	5.103746	4.602444	5.003229	5.119558	5.234864	5.162705
#2	159.2430	5.110811	4.523698	4.985536	5.136988	5.107280	5.153460
#3	160.6508	5.129421	4.531630	5.023161	5.156990	5.165333	5.192049

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: CCV112 Acquired: 01/05/2025 18:08:18 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV112 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	5.214753	4.957212	5.265912
Stddev	.023837	.023647	.038041
%RSD	.4571049	.4770316	.7224100
#1	5.230875	4.968536	5.276182
#2	5.187373	4.930032	5.223790
#3	5.226013	4.973067	5.297764

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1473.185	15544.19	1533.501	1062.057	1579.445
Stddev	.958	39.26	18.837	9.680	1.623
%RSD	.0650587	.2525566	1.228344	.9114689	.1027427
#1	1472.567	15516.70	1511.984	1059.092	1579.357
#2	1472.698	15526.72	1547.012	1054.206	1577.868
#3	1474.289	15589.15	1541.507	1072.873	1581.110

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: CCB112 Acquired: 01/05/2025 18:12:05 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB112 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.001044	-.000878	.0050735	.0076588	-.001205	-.007936	-.004634
Stddev	.002219	.002895	.0012816	.0028758	.004579	.015973	.003133
%RSD	212.4898	329.6464	25.26048	37.54890	379.9292	201.2799	67.61434
#1	.001052	.000679	.0064040	.0109761	-.006491	-.020935	-.007507
#2	-.000816	.000905	.0049695	.0058706	.001529	-.012767	-.005102
#3	-.003369	-.004219	.0038471	.0061297	.001347	.009895	-.001293

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000922	.0000021	.0459628	.0005130	.0000271	-.002803	.0137446
Stddev	.0000380	.0000356	.0262018	.0006644	.0004923	.003000	.0290733
%RSD	41.23087	1682.816	57.00650	129.5265	1816.876	107.0224	211.5259
#1	.0001360	.0000422	.0261891	.0012334	-.000189	-.001878	.0136171
#2	.0000675	-.000026	.0360182	-.000076	.000591	-.006156	-.015265
#3	.0000731	-.000010	.0756810	.000381	-.000320	-.000374	.042881

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000536	-.041320	.0002083	-.001218	.1343192	-.007344	.0034507
Stddev	.000700	.086603	.0002679	.000224	.0182117	.021479	.0007220
%RSD	130.7672	209.5938	128.6004	18.35296	13.55850	292.4662	20.92396
#1	-.000462	.022638	.0004238	-.001064	.1174536	-.024794	.0034039
#2	-.001270	-.006724	.0002926	-.001116	.1318743	-.013884	.0041950
#3	.000125	-.139873	-.000092	-.001475	.1536299	.016645	.0027532

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1945411	-.000012	.0135540	.0001755	.0010787	.0004784	.0007822
Stddev	.3541825	.001016	.0025361	.0005107	.0029740	.0006795	.0002764
%RSD	182.0605	8227.796	18.71128	290.9364	275.6992	142.0296	35.33713
#1	-.158384	.000023	.0121249	-.000324	.0039822	.0002785	.0010355
#2	.192039	-.001046	.0164821	.000697	-.001961	.0012354	.0008238
#3	.549968	.000986	.0120549	.000153	.001215	-.000079	.0004874

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: CCB112 Acquired: 01/05/2025 18:12:05 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB112 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	-.009220	.0001218	.0103126
Stddev	.001670	.0000671	.0052815
%RSD	18.11645	55.07710	51.21440
#1	-.011119	.0000554	.0160630
#2	-.008566	.0001205	.0091965
#3	-.007976	.0001895	.0056783

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1784.481	17747.90	1651.072	1296.956	1998.291
Stddev	5.209	56.60	7.504	3.513	3.748
%RSD	.2918885	.3189100	.4544963	.2708878	.1875845
#1	1788.172	17798.16	1658.942	1300.653	2001.550
#2	1786.748	17758.95	1643.997	1296.554	1999.127
#3	1778.523	17686.59	1650.278	1293.662	1994.194

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: P5058-03 Acquired: 01/05/2025 18:16:08 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHL82 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0527344	.0080485	.1944734	.0246822	.0264418	40.28582	.3368792
Stddev	.0016722	.0026947	.0035458	.0092571	.0016641	.15279	.0040076
%RSD	3.170972	33.48041	1.823269	37.50512	6.293471	.3792598	1.189629
#1	.0520477	.0052980	.1974900	.0344756	.0245423	40.12748	.3352090
#2	.0546406	.0081639	.1905677	.0234951	.0276429	40.29761	.3339769
#3	.0515149	.0106837	.1953627	.0160759	.0271401	40.43238	.3414519

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0039657	.0027479	739.5096	.0587360	.1097672	.2527829	124.6038
Stddev	.0001463	.0000643	4.4929	.0006486	.0002568	.0140828	.3683
%RSD	3.688960	2.340278	.6075466	1.104340	.2339665	5.571116	.2955598
#1	.0038962	.0027000	734.4789	.0594427	.1099961	.2448804	124.2303
#2	.0041338	.0027226	740.9271	.0581677	.1094895	.2444262	124.6144
#3	.0038672	.0028210	743.1227	.0585977	.1098160	.2690423	124.9666

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.195949	210.1574	.1151036	-.008684	1.269529	.1170650	.5188787
Stddev	.059966	.7277	.0004887	.000875	.011258	.0049613	.0011818
%RSD	.6520882	.3462448	.4245706	10.07485	.8867985	4.238037	.2277626
#1	9.129702	209.8628	.1155958	-.008548	1.262218	.1185218	.5201269
#2	9.211626	209.6232	.1146185	-.009619	1.263875	.1115384	.5187324
#3	9.246519	210.9861	.1150964	-.007885	1.282493	.1211347	.5177769

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.173324	4.485904	-.237245	.0043568	.9452192	11.20597	.0269885
Stddev	.150837	.012686	.006599	.0006123	.0030166	.05563	.0016795
%RSD	2.915671	.2827932	2.781391	14.05414	.3191391	.4964083	6.223098
#1	5.214033	4.497586	-.229752	.0045023	.9419978	11.16344	.0284554
#2	5.006310	4.487716	-.242192	.0036848	.9479773	11.26893	.0251564
#3	5.299629	4.472409	-.239790	.0048832	.9456826	11.18556	.0273536

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: P5058-03 Acquired: 01/05/2025 18:16:08 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHL82 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.7987521	.6705736	.1023663
Stddev	.0063783	.0019259	.0025117
%RSD	.7985385	.2872085	2.453679
#1	.8012777	.6690537	.1012924
#2	.7914977	.6699275	.1052364
#3	.8034809	.6727395	.1005700

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1902.959	19184.44	1838.671	1390.213	1652.225
Stddev	4.255	43.20	14.697	2.386	2.730
%RSD	.2236164	.2251791	.7993423	.1716277	.1652187
#1	1904.369	19229.06	1854.105	1391.761	1653.574
#2	1906.329	19142.81	1824.842	1387.465	1654.017
#3	1898.177	19181.46	1837.067	1391.412	1649.083

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: P5058-04 Acquired: 01/05/2025 18:20:00 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHL82D Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0548692	.0074637	.1951981	.0209442	.0235262	40.36964	.3444917
Stddev	.0027521	.0092421	.0047589	.0036905	.0045169	.26321	.0024379
%RSD	5.015805	123.8274	2.438010	17.62067	19.19966	.6520080	.7076682
#1	.0575783	-.000991	.1899194	.0234904	.0281138	40.15984	.3428150
#2	.0549533	.006051	.1965152	.0226305	.0233814	40.66498	.3472882
#3	.0520760	.017331	.1991599	.0167118	.0190834	40.28410	.3433717

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0038309	.0027880	744.1726	.0597784	.1105006	.2624148	124.9313
Stddev	.0002544	.0000692	3.1887	.0002936	.0010575	.0057797	.3305
%RSD	6.641261	2.480740	.4284845	.4912158	.9570372	2.202512	.2645473
#1	.0040004	.0027667	741.1990	.0599089	.1092828	.2614627	124.7356
#2	.0039539	.0027319	747.5397	.0594422	.1111877	.2686115	125.3129
#3	.0035383	.0028653	743.7791	.0599842	.1110312	.2571703	124.7454

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.246988	210.9277	.1166312	-.008007	1.300398	.1015647	.5229773
Stddev	.057708	1.0257	.0013327	.001641	.017199	.0058010	.0020002
%RSD	.6240722	.4862976	1.142631	20.49805	1.322629	5.711638	.3824690
#1	9.203446	210.8581	.1173742	-.007599	1.319920	.1081086	.5228293
#2	9.312443	211.9864	.1150927	-.006609	1.293795	.0970539	.5250474
#3	9.225075	209.9385	.1174267	-.009814	1.287478	.0995316	.5210552

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.323300	4.513553	-.243401	.0037090	.9485327	11.25073	.0290451
Stddev	.035799	.007264	.003243	.0004789	.0083329	.09969	.0031851
%RSD	.6725012	.1609407	1.332367	12.91201	.8785053	.8860840	10.96622
#1	5.364564	4.516777	-.244703	.0039023	.9553486	11.24190	.0253937
#2	5.300537	4.505235	-.245790	.0040611	.9392430	11.35454	.0312520
#3	5.304798	4.518648	-.239709	.0031637	.9510066	11.15575	.0304898

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: P5058-04 Acquired: 01/05/2025 18:20:00 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHL82D Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.7974672	.6725507	.1008702
Stddev	.0052977	.0049714	.0047336
%RSD	.6643205	.7391800	4.692770
#1	.7948037	.6693791	.1015929
#2	.8035682	.6782802	.0958168
#3	.7940298	.6699927	.1052008

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1900.241	19030.54	1825.458	1378.623	1647.261
Stddev	2.427	31.82	12.481	3.765	.694
%RSD	.1277312	.1671830	.6837060	.2730655	.0421521
#1	1900.113	19002.32	1824.987	1377.142	1647.629
#2	1897.880	19065.02	1813.219	1382.903	1646.460
#3	1902.730	19024.28	1838.167	1375.824	1647.694

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: P5058-03LX5 Acquired: 01/05/2025 18:23:52 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHL82L Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0025007	.0189790	.0432860	-.013872	.0037637	8.524598	.0688780
Stddev	.0054813	.0040759	.0034791	.006115	.0044913	.058196	.0028364
%RSD	219.1883	21.47576	8.037577	44.08575	119.3344	.6826860	4.118059
#1	.0004145	.0195593	.0469707	-.020524	.0078003	8.494629	.0656313
#2	.0087188	.0227336	.0428298	-.008495	-.001074	8.487495	.0708749
#3	-.001631	.0146441	.0400575	-.012595	.004565	8.591671	.0701278

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0009460	.0005183	161.2138	.0132509	.0438875	.0550316	27.19456
Stddev	.0001443	.0001175	.9963	.0003745	.0003833	.0156910	.20328
%RSD	15.25813	22.67543	.6180023	2.826379	.8732958	28.51270	.7474856
#1	.0010517	.0006373	161.1872	.0130953	.0434815	.0593373	27.28706
#2	.0007816	.0005151	160.2311	.0129792	.0439380	.0376373	26.96148
#3	.0010047	.0004024	162.2232	.0136781	.0442431	.0681203	27.33513

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.031157	46.43053	.0180797	-.003419	.3075230	.0218967	.1133983
Stddev	.009198	.34087	.0005650	.001983	.0133356	.0096369	.0004733
%RSD	.4528459	.7341538	3.125287	57.99080	4.336461	44.01099	.4174196
#1	2.029668	46.36717	.0180561	-.004905	.3147311	.0272670	.1128600
#2	2.022795	46.12579	.0175268	-.001168	.2921346	.0107711	.1137494
#3	2.041009	46.79864	.0186562	-.004186	.3157033	.0276520	.1135855

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.253929	.8181468	-.055059	.0047425	.1844565	2.443972	.0069104
Stddev	.320902	.0022035	.003388	.0004730	.0052426	.032242	.0016786
%RSD	25.59174	.2693275	6.154240	9.973063	2.842172	1.319242	24.29018
#1	1.223449	.8201816	-.051191	.0048399	.1784973	2.425138	.0087958
#2	.949354	.8184523	-.056483	.0042285	.1883583	2.425577	.0055786
#3	1.588984	.8158065	-.057504	.0051593	.1865139	2.481201	.0063568

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: P5058-03LX5 Acquired: 01/05/2025 18:23:52 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHL82L Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.1663384	.1427160	.0249811
Stddev	.0031052	.0006751	.0048451
%RSD	1.866807	.4730295	19.39502
#1	.1692153	.1425708	.0220027
#2	.1667534	.1421253	.0223688
#3	.1630466	.1434518	.0305717

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1781.001	17765.15	1674.455	1307.210	1836.196
Stddev	5.127	132.12	13.489	6.267	3.584
%RSD	.2878848	.7436867	.8055467	.4794207	.1951936
#1	1777.086	17635.27	1676.440	1300.580	1835.503
#2	1779.113	17760.77	1686.841	1308.013	1833.009
#3	1786.805	17899.40	1660.084	1313.036	1840.076

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: P5058-05 Acquired: 01/05/2025 18:27:50 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHL82S Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1316691	.0886092	.2265981	.1676618	.1709653	42.46906	3.696338
Stddev	.0011788	.0017473	.0055271	.0045862	.0044692	.06610	.008233
%RSD	.8952631	1.971880	2.439156	2.735411	2.614112	.1556419	.2227275
#1	.1306880	.0904578	.2221902	.1706343	.1754697	42.44872	3.690354
#2	.1313426	.0883849	.2248050	.1699713	.1708942	42.54294	3.692933
#3	.1329767	.0869849	.2327991	.1623800	.1665321	42.41552	3.705727

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0886643	.0988211	730.5710	.4127544	1.068128	.6590056	123.5288
Stddev	.0005397	.0001259	1.2353	.0009320	.000659	.0097837	.2872
%RSD	.6087051	.1273566	.1690835	.2258105	.0616667	1.484615	.2324840
#1	.0881859	.0986781	731.9697	.4138228	1.067512	.6598157	123.8138
#2	.0892494	.0988699	729.6295	.4121085	1.068049	.6683590	123.2395
#3	.0885576	.0989152	730.1138	.4123318	1.068823	.6488420	123.5332

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.839688	205.6351	1.087113	.0547884	1.233257	.9582913	1.283195
Stddev	.016028	.3302	.002086	.0008190	.020382	.0196891	.006164
%RSD	.1628960	.1605834	.1918725	1.494746	1.652693	2.054607	.4803873
#1	9.844709	205.9205	1.084870	.0540701	1.225839	.9742721	1.276442
#2	9.821750	205.7115	1.087476	.0556802	1.217623	.9643053	1.284624
#3	9.852605	205.2734	1.088994	.0546149	1.256309	.9362966	1.288519

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.448511	4.453070	-.239721	.0045667	.9372858	10.98128	.0288716
Stddev	.206140	.006111	.004572	.0005067	.0035503	.03395	.0018007
%RSD	3.783427	.1372243	1.907337	11.09506	.3787878	.3091751	6.236820
#1	5.493718	4.449381	-.234954	.0040713	.9405390	10.94207	.0279749
#2	5.628297	4.449706	-.244070	.0045446	.9334988	11.00092	.0276954
#3	5.223519	4.460124	-.240140	.0050840	.9378196	11.00084	.0309446

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: P5058-05 Acquired: 01/05/2025 18:27:50 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHL82S Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.7815711	.6553290	.0999107
Stddev	.0026525	.0013063	.0015855
%RSD	.3393853	.1993328	1.586910
#1	.7833906	.6547296	.1015783
#2	.7785276	.6544299	.0997312
#3	.7827952	.6568274	.0984226

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1904.515	19144.12	1847.352	1385.294	1657.763
Stddev	6.214	55.46	5.321	1.779	5.167
%RSD	.3262945	.2896968	.2880532	.1283987	.3116917
#1	1903.290	19080.93	1849.324	1384.790	1657.401
#2	1911.251	19166.71	1841.327	1383.822	1663.102
#3	1899.005	19184.73	1851.407	1387.270	1652.786

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: P5121-10 Acquired: 01/05/2025 18:31:39 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHM51 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2061411	-.019969	5.166204	.0788753	.0451590	70.32736
Stddev	.0044475	.004673	.009510	.0035028	.0040424	.39693
%RSD	2.157482	23.39918	.1840724	4.440938	8.951382	.5643993
#1	.2013762	-.023668	5.156840	.0786381	.0491551	69.92341
#2	.2068646	-.014718	5.175853	.0824906	.0410720	70.71687
#3	.2101824	-.021522	5.165920	.0754971	.0452498	70.34181

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.564138	.0111494	.0198126	355.9293	.1898854	.1411590
Stddev	.003154	.0000892	.0001737	.4246	.0013583	.0005790
%RSD	.1230061	.8002273	.8768136	.1193056	.7153391	.4101511
#1	2.562165	.0110628	.0196324	355.4820	.1903291	.1417107
#2	2.562474	.0111444	.0199790	356.3269	.1909663	.1405562
#3	2.567776	.0112411	.0198264	355.9791	.1883607	.1412101

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8131962	193.7531	8.087653	107.2127	.2160335	-.010517
Stddev	.0109467	.6482	.025478	.4670	.0014960	.000842
%RSD	1.346138	.3345660	.3150290	.4355463	.6924664	8.009500
#1	.8163718	193.0095	8.058490	106.7185	.2174702	-.009555
#2	.8222040	194.0508	8.098879	107.6465	.2144846	-.011120
#3	.8010127	194.1990	8.105591	107.2733	.2161457	-.010878

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.972904	.2039471	4.188811	9.689596	F 19.52439	-.328978
Stddev	.012304	.0118755	.018033	.123353	.02309	.001015
%RSD	.6236477	5.822832	.4305021	1.273046	.1182729	.3086293
#1	1.958751	.1994773	4.192666	9.576390	19.53085	-.329437
#2	1.978900	.1949551	4.169163	9.671338	19.54356	-.329684
#3	1.981061	.2174089	4.204606	9.821061	19.49875	-.327815

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: P5121-10 Acquired: 01/05/2025 18:31:39 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHM51 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0128323	5.831801	9.061545	.3476276	1.129005	.6581761
Stddev	.0006689	.006605	.052823	.0016030	.006791	.0034094
%RSD	5.212424	.1132664	.5829328	.4611347	.6015241	.5180115
#1	.0123804	5.838987	9.020075	.3489568	1.127701	.6561446
#2	.0125159	5.825993	9.121015	.3458474	1.136354	.6621122
#3	.0136007	5.830424	9.043544	.3480787	1.122961	.6562713

Elem	Li6707
Units	ppm
Avg	.1045434
Stddev	.0029265
%RSD	2.799351
#1	.1038009
#2	.1020596
#3	.1077697

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2038.980	20463.71	1958.021	1494.521	1772.366
Stddev	3.779	94.89	7.089	10.698	3.565
%RSD	.1853306	.4636945	.3620635	.7158327	.2011485
#1	2038.302	20355.55	1957.304	1486.750	1776.399
#2	2043.052	20502.64	1951.317	1506.723	1771.064
#3	2035.586	20532.95	1965.441	1490.091	1769.635

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: P5121-11 Acquired: 01/05/2025 18:35:26 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHM51D Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2070355	-.021006	5.169932	.0788791	.0430430	70.77303
Stddev	.0041543	.004055	.016645	.0066441	.0011062	.13443
%RSD	2.006546	19.30575	.3219576	8.423163	2.570060	.1899439
#1	.2110733	-.025047	5.150735	.0821845	.0420356	70.92822
#2	.2027738	-.016937	5.178729	.0832223	.0442269	70.69283
#3	.2072594	-.021034	5.180334	.0712306	.0428666	70.69802

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.563820	.0110677	.0196320	356.2623	.1902522	.1420599
Stddev	.002362	.0002143	.0001332	.5362	.0012804	.0005206
%RSD	.0921282	1.936603	.6782662	.1505077	.6730177	.3664281
#1	2.562673	.0112378	.0196813	356.8657	.1887807	.1426563
#2	2.566536	.0108269	.0197335	355.8405	.1908637	.1416969
#3	2.562249	.0111383	.0194813	356.0806	.1911123	.1418264

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8084071	194.5798	8.105444	107.8976	.2158962	-.009434
Stddev	.0150858	.2460	.014835	.1379	.0011596	.000851
%RSD	1.866119	.1264299	.1830262	.1278391	.5371068	9.019579
#1	.7915547	194.6149	8.091269	107.7862	.2170346	-.010338
#2	.8130150	194.8063	8.120861	107.8546	.2159374	-.008648
#3	.8206517	194.3181	8.104203	108.0519	.2147165	-.009317

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.982569	.1924440	4.227264	9.755619	F 19.55407	-.329837
Stddev	.006707	.0058444	.015597	.173483	.01286	.005169
%RSD	.3383093	3.036946	.3689605	1.778284	.0657714	1.567283
#1	1.974882	.1883893	4.211834	9.622744	19.55030	-.334612
#2	1.985594	.1897995	4.243023	9.951881	19.56839	-.330552
#3	1.987232	.1991433	4.226935	9.692232	19.54351	-.324348

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: P5121-11 Acquired: 01/05/2025 18:35:26 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHM51D Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0123097	5.842954	9.098379	.3489958	1.127452	.6624588
Stddev	.0012870	.010002	.057669	.0028452	.001812	.0020431
%RSD	10.45500	.1711726	.6338392	.8152563	.1607004	.3084110
#1	.0132485	5.841908	9.163399	.3457302	1.125389	.6642775
#2	.0128380	5.853437	9.078323	.3509403	1.128784	.6628508
#3	.0108427	5.833516	9.053417	.3503169	1.128182	.6602482

Elem	Li6707
Units	ppm
Avg	.1071067
Stddev	.0021599
%RSD	2.016538
#1	.1071097
#2	.1092651
#3	.1049454

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2038.536	20352.67	1948.894	1478.371	1767.352
Stddev	3.174	76.24	10.135	8.383	2.677
%RSD	.1557140	.3745742	.5200279	.5670214	.1514628
#1	2034.900	20404.69	1938.713	1485.153	1768.405
#2	2040.751	20388.17	1958.982	1480.961	1764.308
#3	2039.959	20265.16	1948.987	1468.999	1769.341

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: P5121-10LX5 Acquired: 01/05/2025 18:39:14 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHM51L Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0372570	.0100170	.9971511	.0066706	.0055286	15.81716	.5691112
Stddev	.0070784	.0012216	.0053706	.0017692	.0036087	.06597	.0014322
%RSD	18.99877	12.19549	.5385978	26.52206	65.27246	.4170759	.2516614
#1	.0398051	.0086072	.9910298	.0075308	.0079434	15.86864	.5706402
#2	.0427086	.0106802	.9993509	.0078453	.0013803	15.84005	.5678008
#3	.0292574	.0107636	1.001073	.0046358	.0072622	15.74280	.5688926

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0025984	.0036202	80.74068	.0426810	.0444948	.1803130	44.12366
Stddev	.0000521	.0000534	.04748	.0009968	.0006380	.0043013	.20067
%RSD	2.004258	1.475392	.0588046	2.335552	1.433838	2.385484	.4547873
#1	.0026270	.0036561	80.74235	.0422919	.0439649	.1850312	44.35016
#2	.0026298	.0036456	80.78731	.0438137	.0452029	.1766104	43.96807
#3	.0025382	.0035588	80.69239	.0419374	.0443166	.1792973	44.05276

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.859455	24.55334	.0372164	-.002674	.4405767	.0414588	.9507775
Stddev	.003991	.16970	.0011327	.000641	.0238622	.0018494	.0062828
%RSD	.2146156	.6911293	3.043493	23.97175	5.416119	4.460814	.6608038
#1	1.861141	24.61006	.0365646	-.002009	.4304699	.0396762	.9579778
#2	1.862326	24.68741	.0385243	-.002725	.4678290	.0413318	.9479458
#3	1.854898	24.36255	.0365604	-.003288	.4234311	.0433684	.9464090

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.939186	3.631154	-.075968	.0064400	1.084654	2.071757	.0662902
Stddev	.205472	.002326	.002988	.0002876	.003808	.020195	.0023032
%RSD	10.59580	.0640498	3.933064	4.465786	.3511235	.9747898	3.474463
#1	1.867514	3.629133	-.074257	.0067457	1.080426	2.079322	.0639158
#2	2.170895	3.633696	-.079418	.0063996	1.087816	2.087078	.0664399
#3	1.779149	3.630633	-.074229	.0061748	1.085721	2.048872	.0685150

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: P5121-10LX5 Acquired: 01/05/2025 18:39:14 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHM51L Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.2414349	.1473012	.0216796
Stddev	.0067876	.0011330	.0060932
%RSD	2.811373	.7691750	28.10560
#1	.2444329	.1484679	.0168157
#2	.2462073	.1462052	.0285142
#3	.2336644	.1472304	.0197089

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1880.152	18657.15	1737.194	1372.058	1951.233
Stddev	6.501	98.73	11.851	6.579	4.362
%RSD	.3457678	.5292044	.6821733	.4795310	.2235630
#1	1872.717	18546.84	1728.483	1364.902	1947.307
#2	1884.764	18737.24	1732.410	1377.845	1955.929
#3	1882.976	18687.38	1750.689	1373.428	1950.464

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: P5121-12 Acquired: 01/05/2025 18:43:10 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHM51S Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2905761	.0540002	5.140853	.2232766	.1928902	73.02306
Stddev	.0036787	.0022847	.010096	.0063254	.0037617	.66403
%RSD	1.266003	4.230952	.1963806	2.832981	1.950200	.9093372
#1	.2909439	.0566066	5.151634	.2177621	.1931647	72.30889
#2	.2867273	.0530502	5.139303	.2218862	.1965072	73.13848
#3	.2940571	.0523437	5.131622	.2301816	.1889988	73.62180

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.843506	.0945511	.1141688	352.8978	.5363401	1.098293
Stddev	.014931	.0002923	.0001285	1.3341	.0011891	.000110
%RSD	.2555169	.3091818	.1125715	.3780319	.2217109	.0099807
#1	5.826779	.0942919	.1140502	351.3790	.5361526	1.098273
#2	5.848248	.0948680	.1141508	353.4342	.5376118	1.098411
#3	5.855490	.0944934	.1143053	353.8802	.5352559	1.098195

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.188341	194.3296	8.868224	106.2704	1.183876	.0520783
Stddev	.012123	1.5545	.053909	1.1531	.001927	.0019839
%RSD	1.020182	.7999431	.6078905	1.085041	.1627694	3.809393
#1	1.183568	192.5358	8.810089	104.9503	1.185922	.0499386
#2	1.179330	195.1701	8.878017	106.7806	1.182096	.0538566
#3	1.202124	195.2830	8.916564	107.0804	1.183610	.0524396

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.945738	1.033751	4.896158	9.282864	F 19.26504	-.329700
Stddev	.015922	.013564	.019913	.016660	.02639	.008982
%RSD	.8183265	1.312086	.4066981	.1794693	.1369791	2.724281
#1	1.940672	1.019073	4.917211	9.287641	19.25942	-.340017
#2	1.932966	1.036359	4.877626	9.264338	19.29379	-.325465
#3	1.963578	1.045822	4.893636	9.296614	19.24191	-.323619

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: P5121-12 Acquired: 01/05/2025 18:43:10 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHM51S Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0120065	5.754813	8.989309	.3415726	1.107724	.6520649
Stddev	.0001301	.003884	.014471	.0026624	.017494	.0059943
%RSD	1.083220	.0674985	.1609778	.7794606	1.579241	.9192795
#1	.0121567	5.759247	8.978759	.3385845	1.089460	.6462926
#2	.0119288	5.753179	9.005806	.3424405	1.109383	.6516431
#3	.0119341	5.752012	8.983363	.3436927	1.124329	.6582589

Elem	Li6707
Units	ppm
Avg	.1083280
Stddev	.0032010
%RSD	2.954926
#1	.1116146
#2	.1052201
#3	.1081492

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2040.213	20405.92	1956.694	1492.310	1780.273
Stddev	1.609	127.33	10.708	2.112	2.935
%RSD	.0788697	.6240004	.5472388	.1415148	.1648584
#1	2039.023	20435.83	1962.706	1490.475	1783.331
#2	2042.044	20266.30	1944.331	1491.836	1777.479
#3	2039.573	20515.65	1963.044	1494.618	1780.009

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: P5055-15DLX4 Acquired: 01/05/2025 18:46:56 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKT6 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0170725	.0294406	.1015706	-.023523	.0025972	11.57284	.2466555
Stddev	.0077662	.0030069	.0032618	.003531	.0026554	.03156	.0030446
%RSD	45.48947	10.21332	3.211343	15.00993	102.2405	.2726876	1.234364
#1	.0237943	.0326573	.1036542	-.026436	.0040529	11.55994	.2480571
#2	.0188522	.0267005	.0978116	-.024538	.0042064	11.54977	.2487469
#3	.0085709	.0289640	.1032461	-.019596	-.000468	11.60880	.2431625

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0014165	.0008853	422.9882	.0206941	.0578892	.0581420	39.76093
Stddev	.0002023	.0001870	.1598	.0005336	.0003885	.0150249	.09371
%RSD	14.28179	21.12268	.0377707	2.578337	.6710385	25.84169	.2356848
#1	.0015948	.0009550	423.1307	.0212956	.0579133	.0749376	39.80778
#2	.0011967	.0006734	422.8155	.0205086	.0582651	.0459789	39.65304
#3	.0014582	.0010274	423.0184	.0202780	.0574893	.0535094	39.82198

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.278475	66.99427	.0373291	-.001929	.4869329	.0267829	.1372992
Stddev	.005742	.13148	.0020421	.001256	.0167282	.0037643	.0003434
%RSD	.1751361	.1962597	5.470605	65.13491	3.435417	14.05501	.2501306
#1	3.280011	66.86543	.0350384	-.000479	.5060779	.0230635	.1373522
#2	3.272121	66.98913	.0379900	-.002685	.4795814	.0305906	.1376131
#3	3.283293	67.12825	.0389589	-.002622	.4751394	.0266945	.1369324

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.763921	3.180126	-.062273	.0054896	.5835257	2.992065	.0124370
Stddev	.159572	.002297	.001637	.0010175	.0035938	.017367	.0017561
%RSD	5.773377	.0722322	2.629206	18.53518	.6158777	.5804217	14.12007
#1	2.603980	3.179211	-.062431	.0044526	.5841178	2.998964	.0113063
#2	2.923120	3.182739	-.060562	.0055298	.5867867	2.972309	.0115445
#3	2.764665	3.178427	-.063825	.0064864	.5796726	3.004923	.0144601

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: P5055-15DLX4 Acquired: 01/05/2025 18:46:56 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKT6 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.1807044	.3143093	.0325288
Stddev	.0016849	.0004683	.0041275
%RSD	.9323966	.1490082	12.68876
#1	.1825983	.3137858	.0372882
#2	.1793718	.3144538	.0299322
#3	.1801432	.3146885	.0303659

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1772.585	17731.79	1699.552	1300.400	1753.600
Stddev	4.042	121.18	11.271	7.196	5.016
%RSD	.2280506	.6833928	.6631768	.5533373	.2860583
#1	1768.024	17660.47	1686.539	1296.763	1750.102
#2	1774.004	17663.19	1706.245	1295.749	1751.350
#3	1775.727	17871.70	1705.872	1308.688	1759.347

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: P5056-20DLX2 Acquired: 01/05/2025 18:50:52 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHL47 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0243152	.0155708	.1574184	.0002878	.0139267	28.58364	.3249390
Stddev	.0023496	.0034558	.0027960	.0023720	.0031639	.07858	.0029722
%RSD	9.663118	22.19380	1.776162	824.1574	22.71795	.2749231	.9146889
#1	.0226148	.0148939	.1547571	-.000315	.0106363	28.52766	.3263938
#2	.0233345	.0193150	.1603320	.002903	.0141969	28.67348	.3269035
#3	.0269963	.0125037	.1571661	-.001725	.0169467	28.54978	.3215196

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0026583	.0011509	436.6943	.0453044	.0732758	.0769904	78.69123
Stddev	.0002414	.0000363	.7051	.0001796	.0008813	.0040260	.20767
%RSD	9.082350	3.150382	.1614581	.3964927	1.202764	5.229182	.2638988
#1	.0023820	.0011797	436.1994	.0450971	.0737553	.0764647	78.82490
#2	.0028289	.0011102	437.5016	.0454136	.0738135	.0812533	78.79680
#3	.0027640	.0011629	436.3819	.0454024	.0722587	.0732531	78.45199

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.448733	101.9893	.0776604	-.005314	.7126013	.0695983	.2443428
Stddev	.005244	.5580	.0013306	.000658	.0046534	.0096977	.0023015
%RSD	.1178797	.5470816	1.713363	12.38042	.6530117	13.93385	.9418981
#1	4.454744	102.1368	.0777999	-.006011	.7146017	.0782740	.2466407
#2	4.445091	102.4586	.0762656	-.005228	.7159199	.0713919	.2443499
#3	4.446365	101.3724	.0789158	-.004703	.7072822	.0591289	.2420378

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.702522	2.288378	-.151793	.0056243	.6529270	7.156275	.0196927
Stddev	.081894	.006291	.002315	.0007978	.0042948	.053561	.0035927
%RSD	2.211851	.2749196	1.524988	14.18434	.6577695	.7484540	18.24402
#1	3.675984	2.295320	-.154122	.0065184	.6483644	7.202751	.0199528
#2	3.794395	2.286762	-.151766	.0053692	.6568912	7.168376	.0159770
#3	3.637188	2.283052	-.149493	.0049852	.6535253	7.097699	.0231483

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: P5056-20DLX2 Acquired: 01/05/2025 18:50:52 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHL47 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.3881530	.3465294	.0667398
Stddev	.0016230	.0013024	.0009784
%RSD	.4181384	.3758485	1.465988
#1	.3898754	.3464146	.0677492
#2	.3866522	.3478854	.0657957
#3	.3879314	.3452881	.0666744

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1800.306	18092.64	1720.391	1323.085	1749.665
Stddev	2.759	65.55	6.807	4.841	5.762
%RSD	.1532657	.3623208	.3956651	.3658837	.3293477
#1	1801.830	18159.79	1713.976	1317.538	1750.826
#2	1797.120	18089.31	1719.666	1325.260	1743.411
#3	1801.966	18028.81	1727.532	1326.457	1754.759

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: P5056-21DLX2 Acquired: 01/05/2025 18:54:45 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHL47D Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0243482	.0155845	.1601054	.0007409	.0152344	28.28191	.3266263
Stddev	.0047993	.0010132	.0020578	.0030356	.0041297	.16214	.0004589
%RSD	19.71107	6.501142	1.285283	409.7236	27.10767	.5733019	.1404852
#1	.0282722	.0145879	.1609046	-.001282	.0104707	28.30227	.3271404
#2	.0189973	.0166134	.1577679	-.000727	.0174311	28.11055	.3264804
#3	.0257752	.0155522	.1616437	.004232	.0178015	28.43291	.3262581

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0026607	.0012480	436.2500	.0444496	.0730481	.0634451	78.09201
Stddev	.0001695	.0000545	.3715	.0007641	.0003686	.0057416	.48308
%RSD	6.370971	4.363294	.0851490	1.718990	.5045835	9.049741	.6186039
#1	.0025230	.0012805	435.8224	.0453112	.0726663	.0602903	78.16864
#2	.0028500	.0012783	436.4923	.0438544	.0730759	.0700724	77.57519
#3	.0026090	.0011851	436.4355	.0441831	.0734019	.0599726	78.53220

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.413707	101.1377	.0788556	-.006243	.7307118	.0476372	.2402846
Stddev	.013663	.5154	.0007505	.000646	.0053136	.0070787	.0015937
%RSD	.3095643	.5096361	.9517509	10.35117	.7271756	14.85962	.6632607
#1	4.416371	100.9515	.0786856	-.006987	.7246360	.0548358	.2416765
#2	4.398908	100.7413	.0782047	-.005824	.7330099	.0406848	.2385461
#3	4.425842	101.7204	.0796765	-.005918	.7344895	.0473912	.2406312

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.798632	2.278856	-.150819	.0060917	.6445430	7.092938	.0202458
Stddev	.081962	.009129	.001956	.0005788	.0079923	.066058	.0007191
%RSD	2.157674	.4006128	1.296839	9.501408	1.239999	.9313137	3.551785
#1	3.767109	2.279047	-.149473	.0067338	.6361294	7.039441	.0210757
#2	3.891676	2.269633	-.149922	.0059314	.6520340	7.072600	.0198566
#3	3.737112	2.287889	-.153063	.0056099	.6454657	7.166773	.0198053

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: P5056-21DLX2 Acquired: 01/05/2025 18:54:45 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHL47D Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.3896218	.3434083	.0626492
Stddev	.0030163	.0021363	.0035346
%RSD	.7741678	.6220773	5.641957
#1	.3865652	.3423948	.0642509
#2	.3897039	.3419674	.0650994
#3	.3925962	.3458626	.0585972

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1804.468	18077.61	1726.789	1325.224	1753.362
Stddev	3.791	48.12	9.967	5.678	1.823
%RSD	.2100803	.2662090	.5771780	.4284331	.1039798
#1	1800.297	18036.96	1734.733	1318.947	1751.293
#2	1805.406	18065.11	1730.028	1330.002	1754.733
#3	1807.702	18130.74	1715.606	1326.723	1754.061

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: P5056-20LDLX10 Acquired: 01/05/2025 18:58:37 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHL47L Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000282	.0142251	.0361075	-.013807	.0025001	5.891246	.0664658
Stddev	.001854	.0032902	.0039904	.001496	.0030813	.064116	.0006305
%RSD	657.6574	23.12944	11.05139	10.83725	123.2483	1.088329	.9485802
#1	.000591	.0156585	.0404048	-.015030	.0017187	5.893594	.0659929
#2	-.002412	.0165555	.0353987	-.012139	-.000115	5.825989	.0662229
#3	.000975	.0104614	.0325190	-.014251	.005897	5.954156	.0671816

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0007793	.0001712	91.31079	.0099922	.0328350	.0100392	16.44419
Stddev	.0000950	.0001081	.39067	.0000765	.0007796	.0085396	.02371
%RSD	12.19565	63.14478	.4278481	.7657307	2.374289	85.06238	.1441947
#1	.0008381	.0000617	91.28247	.0099096	.0333452	.0162729	16.42649
#2	.0008302	.0002778	90.93506	.0100607	.0319376	.0003057	16.43494
#3	.0006697	.0001741	91.71486	.0100062	.0332222	.0135391	16.47113

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9404885	21.74819	.0117032	-.001408	.1446390	.0059560	.0520332
Stddev	.0022774	.26565	.0009003	.001215	.0438352	.0154114	.0006243
%RSD	.2421456	1.221480	7.692766	86.30169	30.30662	258.7537	1.199721
#1	.9413171	21.76638	.0109464	-.002769	.1199515	.0111592	.0519283
#2	.9379129	21.47392	.0114644	-.001024	.1187150	.0180924	.0514680
#3	.9422356	22.00428	.0126988	-.000431	.1952505	-.011384	.0527033

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7881051	.4208719	-.032248	.0044046	.1309474	1.477636	.0035309
Stddev	.1614057	.0039049	.003063	.0008929	.0060116	.009649	.0009191
%RSD	20.48023	.9278165	9.498979	20.27062	4.590854	.6530220	26.03092
#1	.8506335	.4188783	-.035327	.0041017	.1287138	1.484962	.0042345
#2	.6047900	.4183661	-.029201	.0037027	.1263724	1.466703	.0024910
#3	.9088917	.4253712	-.032215	.0054095	.1377561	1.481242	.0038673

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: P5056-20LDLX10 Acquired: 01/05/2025 18:58:37 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHL47L Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.0728288	.0713482	.0137761
Stddev	.0008705	.0014380	.0025237
%RSD	1.195248	2.015475	18.31971
#1	.0736034	.0713184	.0109303
#2	.0729962	.0699254	.0146555
#3	.0718868	.0728009	.0157424

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1774.298	17680.49	1661.834	1301.510	1897.530
Stddev	4.094	46.31	6.721	4.146	5.198
%RSD	.2307126	.2619074	.4044209	.3185769	.2739533
#1	1778.910	17635.10	1655.982	1304.555	1902.245
#2	1772.890	17678.71	1669.174	1303.187	1898.391
#3	1771.094	17727.66	1660.347	1296.788	1891.955

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: P5056-22DLX2 Acquired: 01/05/2025 19:02:36 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHL47S Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0634011	.0591974	.1832728	.0814331	.0982662	30.11000	2.257992
Stddev	.0020806	.0030630	.0043737	.0050409	.0025567	.20916	.008813
%RSD	3.281629	5.174219	2.386447	6.190198	2.601805	.6946500	.3903158
#1	.0616839	.0557583	.1797615	.0843747	.1002487	29.89280	2.254923
#2	.0657148	.0616320	.1818848	.0756125	.0991694	30.12713	2.251123
#3	.0628045	.0602019	.1881721	.0843120	.0953805	30.31006	2.267929

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0520990	.0517864	437.6709	.2491422	.5695813	.3079128	79.16121
Stddev	.0003270	.0001217	2.7282	.0009532	.0008062	.0099468	.51717
%RSD	.6276162	.2350710	.6233400	.3826107	.1415429	3.230392	.6533182
#1	.0517318	.0516690	435.1058	.2502403	.5686934	.2998345	78.56932
#2	.0522065	.0519120	437.3698	.2486579	.5702675	.3048813	79.38842
#3	.0523586	.0517781	440.5372	.2485283	.5697829	.3190226	79.52588

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.916075	101.4153	.5882627	.0306677	.7272112	.5527749	.6878634
Stddev	.031287	.5133	.0004428	.0019938	.0095940	.0050893	.0057045
%RSD	.6364210	.5061743	.0752672	6.501430	1.319286	.9206838	.8293107
#1	4.885127	100.8250	.5884980	.0303369	.7170883	.5511771	.6897877
#2	4.915407	101.6634	.5877520	.0328062	.7361701	.5584714	.6923569
#3	4.947690	101.7575	.5885383	.0288599	.7283753	.5486763	.6814455

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.604838	2.266321	-.156842	.0052291	.6473118	7.096906	.0202783
Stddev	.391456	.008086	.001288	.0006529	.0039692	.066813	.0021611
%RSD	10.85919	.3567874	.8211700	12.48642	.6131786	.9414323	10.65725
#1	3.305000	2.257575	-.155489	.0051880	.6461396	7.020270	.0183991
#2	4.047692	2.267864	-.156983	.0059015	.6440607	7.127538	.0226399
#3	3.461823	2.273525	-.158053	.0045976	.6517350	7.142911	.0197960

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: P5056-22DLX2 Acquired: 01/05/2025 19:02:36 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHL47S Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.3864270	.3434488	.0657787
Stddev	.0059372	.0013643	.0039583
%RSD	1.536430	.3972346	6.017630
#1	.3891222	.3418735	.0677473
#2	.3905386	.3442468	.0683668
#3	.3796203	.3442261	.0612221

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1793.820	17977.51	1710.788	1308.222	1745.302
Stddev	2.608	69.40	12.476	8.673	1.211
%RSD	.1453775	.3860616	.7292322	.6629434	.0693785
#1	1794.994	17899.67	1725.032	1299.405	1744.854
#2	1790.831	17999.95	1701.799	1308.518	1744.380
#3	1795.634	18032.92	1705.535	1316.743	1746.673

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: P5062-01DLX4 Acquired: 01/05/2025 19:06:22 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKZ7 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0003315	.0291052	.0463776	-.019746	.0067459	15.55503	.3109281
Stddev	.0012940	.0012754	.0022110	.004848	.0043279	.11796	.0024239
%RSD	390.3925	4.381870	4.767398	24.55151	64.15601	.7583345	.7795852
#1	-.001078	.0284685	.0461969	-.025120	.0068430	15.67029	.3098953
#2	.001466	.0305735	.0442626	-.015701	.0110243	15.56026	.3136973
#3	.000606	.0282735	.0486735	-.018417	.0023702	15.43454	.3091915

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0018711	.0018835	444.8821	.0339225	.0581059	.0242028	46.59526
Stddev	.0001908	.0000535	1.2408	.0002798	.0005654	.0058646	.01807
%RSD	10.19638	2.841321	.2789031	.8246756	.9731058	24.23103	.0387775
#1	.0019588	.0018995	444.0737	.0336324	.0575865	.0259500	46.57464
#2	.0016522	.0019272	446.3107	.0341906	.0580231	.0289953	46.60834
#3	.0020022	.0018238	444.2619	.0339447	.0587082	.0176632	46.60278

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.210783	13.20337	.0461891	-.003045	.3389061	.0335232	.0888824
Stddev	.007846	.08437	.0013651	.000850	.0128500	.0063620	.0011834
%RSD	.1863335	.6389840	2.955440	27.91056	3.791606	18.97777	1.331472
#1	4.202946	13.25438	.0450147	-.002865	.3256598	.0371061	.0902348
#2	4.218639	13.24973	.0458658	-.003971	.3397392	.0261778	.0880364
#3	4.210765	13.10598	.0476869	-.002300	.3513193	.0372858	.0883760

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.351431	1.285183	-.080004	.0048706	.3317762	3.294230	.0109719
Stddev	.264107	.003928	.002443	.0004562	.0066370	.020203	.0006363
%RSD	7.880420	.3056419	3.054115	9.367211	2.000451	.6132699	5.799567
#1	3.623028	1.288113	-.082756	.0053924	.3378980	3.317557	.0114595
#2	3.095512	1.286717	-.079170	.0046725	.3327080	3.282793	.0102521
#3	3.335752	1.280720	-.078087	.0045470	.3247225	3.282341	.0112041

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: P5062-01DLX4 Acquired: 01/05/2025 19:06:22 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKZ7 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.2953142	.1941929	.0348947
Stddev	.0056356	.0008835	.0035785
%RSD	1.908329	.4549618	10.25516
#1	.2934641	.1936156	.0327698
#2	.3016423	.1952100	.0328880
#3	.2908363	.1937530	.0390262

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1797.665	18075.79	1715.109	1316.133	1806.600
Stddev	2.943	75.39	12.014	11.881	2.338
%RSD	.1637313	.4171049	.7004728	.9027490	.1293881
#1	1797.494	17989.75	1701.918	1305.503	1803.984
#2	1800.690	18130.35	1725.423	1328.959	1808.483
#3	1794.811	18107.25	1717.986	1313.937	1807.332

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: P5062-02DLX4 Acquired: 01/05/2025 19:10:17 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKZ8 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.004546	.0223774	.0432426	-.015307	.0047696	13.73040	.2887735
Stddev	.003999	.0027116	.0051443	.010345	.0015552	.05061	.0038552
%RSD	87.96984	12.11763	11.89639	67.58510	32.60627	.3685989	1.335022
#1	-.003278	.0194015	.0449324	-.005740	.0045052	13.78049	.2898100
#2	-.009026	.0247085	.0473294	-.013895	.0033635	13.73142	.2920045
#3	-.001335	.0230222	.0374659	-.026286	.0064401	13.67928	.2845060

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0015512	.0014901	431.0490	.0292987	.0573946	.0222896	40.95967
Stddev	.0000789	.0001611	.5607	.0006369	.0008427	.0056998	.13487
%RSD	5.089271	10.81197	.1300860	2.173825	1.468212	25.57146	.3292722
#1	.0016068	.0016715	430.5648	.0286882	.0583061	.0157144	40.91561
#2	.0014608	.0013637	431.6634	.0292488	.0566439	.0253275	41.11106
#3	.0015859	.0014352	430.9189	.0299591	.0572339	.0258270	40.85235

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.105773	15.82855	.0403438	-.002950	.3195227	.0265008	.0763970
Stddev	.026458	.06429	.0006046	.000839	.0196625	.0100089	.0003299
%RSD	.6444130	.4061815	1.498569	28.44817	6.153715	37.76841	.4317583
#1	4.090676	15.82206	.0407737	-.002806	.3407231	.0376724	.0763869
#2	4.136323	15.89584	.0406051	-.003852	.3159594	.0183508	.0767318
#3	4.090320	15.76774	.0396525	-.002192	.3018854	.0234792	.0760723

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.088087	1.197867	-.066727	.0046073	.3492671	2.996857	.0121127
Stddev	.111158	.006198	.001926	.0003423	.0041096	.024044	.0009681
%RSD	3.599563	.5173902	2.886207	7.429297	1.176632	.8022977	7.992434
#1	3.066099	1.192764	-.064504	.0045473	.3445864	3.014953	.0131694
#2	2.989566	1.204764	-.067785	.0042990	.3509314	3.006044	.0119005
#3	3.208595	1.196074	-.067892	.0049757	.3522834	2.969574	.0112684

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: P5062-02DLX4 Acquired: 01/05/2025 19:10:17 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKZ8 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.2940982	.2158053	.0390654
Stddev	.0052313	.0011974	.0032967
%RSD	1.778764	.5548378	8.438820
#1	.2889041	.2161925	.0360087
#2	.2940246	.2167612	.0425585
#3	.2993659	.2144623	.0386290

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1789.114	17876.49	1703.778	1305.200	1807.385
Stddev	7.132	57.89	10.190	11.386	7.246
%RSD	.3986375	.3238526	.5980561	.8723683	.4009192
#1	1780.893	17933.73	1702.966	1318.098	1799.449
#2	1793.644	17817.96	1694.019	1296.541	1809.056
#3	1792.804	17877.79	1714.349	1300.963	1813.650

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: P5079-06DLX4 Acquired: 01/05/2025 19:14:12 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHLF4 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0024623	.0288199	.2500227	-.030063	.0031683	8.725927	.0899963
Stddev	.0042385	.0073868	.0010355	.004242	.0032564	.079653	.0009368
%RSD	172.1405	25.63085	.4141496	14.10890	102.7819	.9128366	1.040941
#1	.0011852	.0213687	.2507989	-.026028	.0065966	8.709855	.0906358
#2	.0071925	.0289505	.2488470	-.029676	.0027916	8.655535	.0904320
#3	-.000991	.0361405	.2504221	-.034484	.0001166	8.812391	.0889209

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0011765	.0020522	453.5804	.0327712	.0501650	.0340144	30.44908
Stddev	.0001570	.0001377	1.4344	.0008565	.0000563	.0124992	.16014
%RSD	13.34652	6.709473	.3162394	2.613582	.1122396	36.74670	.5259173
#1	.0011442	.0020660	453.2203	.0333471	.0501919	.0195816	30.59950
#2	.0013472	.0019080	452.3603	.0317869	.0501002	.0412159	30.28073
#3	.0010382	.0021824	455.1605	.0331795	.0502027	.0412457	30.46701

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.319341	181.2036	.0304574	.0003944	.5622147	.0113233	.3448288
Stddev	.014078	1.0591	.0005683	.0008479	.0143931	.0134290	.0012077
%RSD	.6069783	.5844572	1.866000	214.9784	2.560075	118.5957	.3502297
#1	2.318456	182.0370	.0298990	.0003119	.5628670	.0020050	.3448809
#2	2.305727	180.0119	.0304381	-.000409	.5475066	.0052487	.3460096
#3	2.333841	181.5620	.0310352	.001281	.5762707	.0267163	.3435959

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.574597	1.542485	-.038922	.0067168	4.728434	2.506208	.0174584
Stddev	.265632	.003151	.000935	.0012067	.013919	.029335	.0014703
%RSD	10.31740	.2042747	2.402411	17.96496	.2943733	1.170502	8.421959
#1	2.286210	1.542419	-.039750	.0053898	4.741086	2.535573	.0165548
#2	2.809259	1.539368	-.039110	.0077482	4.713524	2.476903	.0166653
#3	2.628322	1.545668	-.037908	.0070124	4.730691	2.506148	.0191550

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: P5079-06DLX4 Acquired: 01/05/2025 19:14:12 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHLF4 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.0943864	.1849254	.0274041
Stddev	.0046885	.0009738	.0028837
%RSD	4.967312	.5265787	10.52276
#1	.0892961	.1849359	.0280543
#2	.0953354	.1839464	.0242508
#3	.0985279	.1858939	.0299071

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1700.864	17111.59	1634.974	1241.762	1698.308
Stddev	3.238	55.91	10.417	1.939	1.914
%RSD	.1903825	.3267567	.6371205	.1561844	.1127062
#1	1697.224	17173.79	1623.683	1243.755	1698.351
#2	1701.946	17065.49	1644.210	1239.881	1696.373
#3	1703.423	17095.51	1637.030	1241.648	1700.201

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: P5080-09 Acquired: 01/05/2025 19:18:03 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHLE7 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1685725	-.017830	3.179756	.0748254	.0411728	73.11459
Stddev	.0034272	.000912	.003003	.0024766	.0024173	.01125
%RSD	2.033063	5.114198	.0944471	3.309859	5.871008	.0153922
#1	.1719862	-.018024	3.176400	.0774953	.0427991	73.12000
#2	.1651320	-.016837	3.182190	.0743778	.0383951	73.10165
#3	.1685995	-.018629	3.180678	.0726031	.0423241	73.12211

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.033230	.0070767	.0121447	149.0253	.4382281	.1137628
Stddev	.002939	.0001804	.0001864	.1484	.0013810	.0003372
%RSD	.1445497	2.548769	1.535180	.0996095	.3151300	.2964257
#1	2.029837	.0072775	.0119469	149.1861	.4398162	.1135444
#2	2.034890	.0069285	.0123171	148.8935	.4373094	.1135928
#3	2.034963	.0070242	.0121702	148.9965	.4375586	.1141512

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4396311	168.2639	9.159190	31.92820	.2126438	-.006695
Stddev	.0104030	.2091	.024274	.30873	.0002944	.000985
%RSD	2.366293	.1242443	.2650269	.9669550	.1384727	14.71573
#1	.4510339	168.2167	9.175349	32.28461	.2129837	-.006587
#2	.4372013	168.4925	9.170945	31.74339	.2124654	-.005768
#3	.4306581	168.0825	9.131276	31.75661	.2124824	-.007730

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7977827	.1786651	2.436224	10.02317	F 19.88435	-.341293
Stddev	.0053980	.0215124	.015190	.10135	.01625	.003277
%RSD	.6766198	12.04063	.6235219	1.011162	.0817317	.9601980
#1	.8002717	.1956160	2.421376	10.14011	19.89715	-.343487
#2	.8014871	.1859148	2.435560	9.96880	19.86606	-.342867
#3	.7915893	.1544644	2.451735	9.96061	19.88982	-.337526

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: P5080-09 Acquired: 01/05/2025 19:18:03 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHLE7 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0114794	4.536048	11.34233	.1688308	.8972178	.1324775
Stddev	.0006503	.011114	.07302	.0010395	.0037980	.0009696
%RSD	5.665331	.2450056	.6437650	.6156976	.4233126	.7318734
#1	.0111200	4.541984	11.39550	.1677376	.8936150	.1324499
#2	.0122301	4.542934	11.37242	.1689481	.8968536	.1334606
#3	.0110881	4.523227	11.25908	.1698067	.9011849	.1315220

Elem	Li6707
Units	ppm
Avg	.1320848
Stddev	.0045040
%RSD	3.409961
#1	.1271831
#2	.1360411
#3	.1330301

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2112.951	21154.47	2000.322	1552.069	1879.382
Stddev	3.844	113.70	8.942	8.507	3.899
%RSD	.1819267	.5374913	.4470089	.5481104	.2074796
#1	2114.516	21206.82	1994.327	1560.110	1882.113
#2	2115.766	21232.57	1996.040	1552.937	1881.116
#3	2108.571	21024.02	2010.600	1543.162	1874.916

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: P5080-13 Acquired: 01/05/2025 19:21:51 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHLH6 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1180167	-.015823	2.415547	.0587247	.0277868	60.64276
Stddev	.0037961	.002383	.007510	.0051134	.0025068	.44577
%RSD	3.216593	15.05853	.3109148	8.707428	9.021432	.7350674
#1	.1220884	-.016804	2.408975	.0562821	.0249469	60.13467
#2	.1173866	-.013106	2.423733	.0646013	.0296914	60.96818
#3	.1145750	-.017558	2.413933	.0552906	.0287222	60.82542

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.222860	.0054817	.0059188	105.6305	.1883239	.0963206
Stddev	.008197	.0000828	.0000521	.8889	.0005586	.0010072
%RSD	.6702877	1.511048	.8804337	.8414864	.2966212	1.045696
#1	1.218940	.0054643	.0058822	104.7925	.1882811	.0963903
#2	1.217359	.0054089	.0059785	105.5364	.1889027	.0972911
#3	1.232281	.0055718	.0058959	106.5627	.1877880	.0952803

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3321228	129.6802	6.612234	34.07593	.1523894	-.005745
Stddev	.0019859	.8037	.052720	.37945	.0006147	.001326
%RSD	.5979530	.6197348	.7973132	1.113547	.4034026	23.07440
#1	.3336802	128.7590	6.556038	33.66171	.1526603	-.006640
#2	.3328017	130.0439	6.620061	34.15932	.1516858	-.004222
#3	.3298864	130.2377	6.660603	34.40674	.1528223	-.006374

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5689633	.1368751	1.453707	7.882866	F 10.07331	-.254499
Stddev	.0143434	.0119708	.000983	.182102	.01520	.002649
%RSD	2.520965	8.745748	.0675982	2.310097	.1508918	1.040911
#1	.5750125	.1234057	1.454048	7.715450	10.08235	-.255340
#2	.5792911	.1462986	1.452599	7.856391	10.08182	-.251532
#3	.5525862	.1409211	1.454474	8.076756	10.05576	-.256626

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: P5080-13 Acquired: 01/05/2025 19:21:51 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHLH6 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0077181	2.589530	11.21604	.0843057	.7789526	.0499678
Stddev	.0017942	.009207	.04395	.0015295	.0018632	.0002431
%RSD	23.24655	.3555535	.3918750	1.814273	.2391980	.4864484
#1	.0062238	2.584482	11.24717	.0844885	.7770147	.0498515
#2	.0097080	2.583950	11.16576	.0857357	.7807309	.0502472
#3	.0072225	2.600157	11.23518	.0826931	.7791122	.0498047

Elem	Li6707
Units	ppm
Avg	.1016595
Stddev	.0053351
%RSD	5.248049
#1	.0975111
#2	.1076779
#3	.0997894

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2113.275	21150.02	1984.039	1554.786	1901.905
Stddev	9.517	79.31	2.896	4.492	7.408
%RSD	.4503310	.3749658	.1459891	.2889033	.3894973
#1	2105.438	21209.56	1980.953	1554.374	1897.194
#2	2110.524	21059.99	1984.466	1550.514	1898.077
#3	2123.865	21180.50	1986.698	1559.469	1910.443

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: P5080-14 Acquired: 01/05/2025 19:25:40 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHLH7 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0877025	-.008438	1.185715	.0524675	.0258619	62.03199
Stddev	.0031718	.002316	.005353	.0047769	.0035879	.17935
%RSD	3.616484	27.44090	.4514778	9.104575	13.87336	.2891237
#1	.0843968	-.010527	1.188141	.0562684	.0225753	61.96559
#2	.0907207	-.008839	1.179579	.0471053	.0253209	61.89531
#3	.0879900	-.005949	1.189426	.0540289	.0296896	62.23507

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9844941	.0052980	.0051887	134.0362	.1399359	.0966577
Stddev	.0035910	.0000706	.0000324	.1469	.0005871	.0007726
%RSD	.3647546	1.333403	.6249566	.1095709	.4195703	.7993046
#1	.9882812	.0052892	.0051946	134.0863	.1400299	.0958911
#2	.9811382	.0053726	.0051537	133.8708	.1393074	.0966458
#3	.9840629	.0052321	.0052178	134.1515	.1404703	.0974362

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2952080	124.9918	5.530241	33.81063	.1492004	-.007751
Stddev	.0040270	.4165	.011097	.10590	.0008653	.001003
%RSD	1.364116	.3332165	.2006658	.3132092	.5799802	12.94570
#1	.2909162	125.2925	5.541889	33.69329	.1498193	-.006594
#2	.2989037	124.5164	5.529040	33.89910	.1495702	-.008376
#3	.2958040	125.1665	5.519792	33.83951	.1482116	-.008283

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6866638	.1365708	.8878069	6.565967	F 14.93055	-.245852
Stddev	.0193932	.0058336	.0051376	.056557	.00667	.001325
%RSD	2.824260	4.271478	.5786827	.8613680	.0446513	.5388386
#1	.6978510	.1366849	.8897110	6.630102	14.93741	-.245602
#2	.6642704	.1306810	.8917207	6.523235	14.92409	-.244670
#3	.6978698	.1423465	.8819891	6.544564	14.93015	-.247284

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: P5080-14 Acquired: 01/05/2025 19:25:40 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHLH7 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0071957	2.795418	10.88134	.0524656	.7434090	.1051919
Stddev	.0008388	.004176	.05271	.0018085	.0039526	.0004555
%RSD	11.65672	.1493763	.4844225	3.446925	.5316913	.4330324
#1	.0066137	2.797114	10.90297	.0545410	.7388729	.1052558
#2	.0068162	2.790661	10.82125	.0516275	.7461147	.1056122
#3	.0081571	2.798479	10.91979	.0512282	.7452393	.1047079

Elem	Li6707
Units	ppm
Avg	.1026692
Stddev	.0027586
%RSD	2.686841
#1	.1014519
#2	.1058270
#3	.1007286

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2290.333	22945.45	2155.477	1672.328	1922.784
Stddev	5.990	103.34	14.342	8.389	5.055
%RSD	.2615131	.4503587	.6653539	.5016518	.2629024
#1	2295.672	22828.90	2148.272	1662.677	1925.459
#2	2283.856	23025.88	2171.992	1676.431	1916.954
#3	2291.472	22981.58	2146.165	1677.877	1925.939

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: P5080-15 Acquired: 01/05/2025 19:29:30 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHLH8 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0508157	-.009388	.4156528	.0501725	.0288015	59.02992
Stddev	.0014309	.001080	.0062130	.0046669	.0052824	.35415
%RSD	2.815816	11.50699	1.494748	9.301759	18.34060	.5999498
#1	.0522859	-.010622	.4087849	.0553549	.0300125	58.68602
#2	.0507336	-.008614	.4172909	.0463017	.0230189	59.01025
#3	.0494276	-.008928	.4208825	.0488610	.0333733	59.39350

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6504747	.0050929	.0028159	189.2021	.0978274	.1003494
Stddev	.0024580	.0000811	.0000026	.8305	.0005300	.0009787
%RSD	.3778800	1.592204	.0904981	.4389667	.5418166	.9752627
#1	.6510055	.0051496	.0028167	188.2944	.0982669	.0996839
#2	.6477946	.0051289	.0028180	189.3879	.0972387	.1014732
#3	.6526239	.0050000	.0028130	189.9240	.0979765	.0998913

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2419606	133.1225	3.652735	54.99871	.1560826	-.010038
Stddev	.0078112	.9600	.015607	.41818	.0013751	.000474
%RSD	3.228293	.7211596	.4272759	.7603400	.8810009	4.719897
#1	.2509261	132.1461	3.638075	54.54544	.1560060	-.009971
#2	.2383319	133.1561	3.650988	55.08118	.1574944	-.009601
#3	.2366238	134.0653	3.669143	55.36951	.1547474	-.010542

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9278525	.1271796	.6025327	7.286968	F 10.53464	-.269580
Stddev	.0050256	.0105215	.0035742	.117064	.01805	.002524
%RSD	.5416374	8.272986	.5931931	1.606483	.1713169	.9362242
#1	.9335094	.1207822	.5984105	7.157714	10.51403	-.269496
#2	.9261452	.1393230	.6044192	7.317331	10.54762	-.272145
#3	.9239031	.1214335	.6047683	7.385859	10.54228	-.267100

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: P5080-15 Acquired: 01/05/2025 19:29:30 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHLH8 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0060138	1.438516	10.39822	.0272830	.8225294	.1164339
Stddev	.0008215	.010355	.06670	.0028684	.0078562	.0005696
%RSD	13.65977	.7198297	.6414421	10.51345	.9551317	.4892022
#1	.0060318	1.432885	10.32140	.0302970	.8307145	.1160908
#2	.0051835	1.432196	10.43183	.0245867	.8150496	.1161194
#3	.0068262	1.450466	10.44142	.0269653	.8218240	.1170914

Elem	Li6707
Units	ppm
Avg	.1223972
Stddev	.0044502
%RSD	3.635849
#1	.1178073
#2	.1226913
#3	.1266931

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2151.386	21620.02	2041.261	1577.006	1846.225
Stddev	4.278	65.93	16.336	7.766	4.900
%RSD	.1988296	.3049662	.8002880	.4924256	.2654213
#1	2150.866	21692.99	2059.015	1585.958	1846.935
#2	2147.392	21602.35	2037.904	1572.979	1841.009
#3	2155.899	21564.72	2026.864	1572.081	1850.732

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: CCV113 Acquired: 01/05/2025 19:33:19 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV113 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.043983	4.904029	25.09041	5.016699	4.973851	406.9729
Stddev	.020903	.011139	.02513	.005732	.009632	1.6929
%RSD	.4144160	.2271398	.1001740	.1142652	.1936607	.4159809
#1	5.052108	4.914816	25.11883	5.017343	4.967158	408.8997
#2	5.020238	4.904704	25.08127	5.022082	4.969505	406.2953
#3	5.059604	4.892568	25.07112	5.010672	4.984891	405.7238

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	10.35620	.5167023	2.525922	414.6199	15.82254	2.538429
Stddev	.02728	.0034610	.001266	.9736	.02274	.004811
%RSD	.2634443	.6698318	.0501132	.2348282	.1437283	.1895079
#1	10.38768	.5188428	2.527373	415.7345	15.84254	2.543894
#2	10.34152	.5127093	2.525042	414.1904	15.79780	2.534836
#3	10.33940	.5185548	2.525351	413.9349	15.82729	2.536556

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	15.46847	412.6360	15.25476	409.7293	2.546919	1.280254
Stddev	.07371	2.6654	.11564	1.9899	.003246	.002771
%RSD	.4765494	.6459415	.7580754	.4856597	.1274598	.2164322
#1	15.55226	415.6819	15.38322	412.0137	2.550660	1.277178
#2	15.43953	410.7308	15.15897	408.3725	2.544835	1.281031
#3	15.41362	411.4954	15.22208	408.8018	2.545264	1.282553

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	421.6764	2.542543	14.90985	157.2438	5.050001	F 4.475544
Stddev	4.4262	.003209	.03524	.8923	.005566	.030023
%RSD	1.049662	.1262148	.2363331	.5674432	.1102242	.6708177
#1	425.1566	2.539420	14.91354	158.1804	5.047867	4.493569
#2	416.6948	2.545832	14.94309	156.4037	5.045818	4.440886
#3	423.1778	2.542378	14.87291	157.1473	5.056319	4.492178

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: CCV113 Acquired: 01/05/2025 19:33:19 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV113 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.923539	5.084866	5.077128	5.088413	5.120563	4.870689
Stddev	.003477	.011247	.043047	.005335	.041658	.024424
%RSD	.0706167	.2211915	.8478670	.1048524	.8135469	.5014393
#1	4.919660	5.097566	5.108988	5.093412	5.164305	4.898864
#2	4.924582	5.080873	5.028156	5.082795	5.116025	4.855542
#3	4.926375	5.076161	5.094241	5.089031	5.081360	4.857660

Elem	Li6707
Units	ppm
Avg	5.166556
Stddev	.017653
%RSD	.3416806
#1	5.186937
#2	5.156652
#3	5.156078

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1476.953	15642.05	1540.682	1078.422	1583.711
Stddev	3.837	41.02	10.422	3.653	2.464
%RSD	.2597794	.2622157	.6764739	.3387754	.1556016
#1	1480.870	15594.80	1532.427	1077.462	1584.918
#2	1473.202	15668.46	1552.394	1075.344	1580.875
#3	1476.786	15662.90	1537.226	1082.460	1585.339

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: CCB113 Acquired: 01/05/2025 19:37:05 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB113 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.006269	-.003791	.0010329	.0087307	.0005054	-.003112	-.003252
Stddev	.002498	.003853	.0032536	.0029299	.0008309	.026241	.003819
%RSD	39.84205	101.6525	314.9821	33.55886	164.3786	843.1132	117.4374
#1	-.006723	-.007378	.0007918	.0053752	.0009605	-.020213	-.001408
#2	-.008507	-.004277	-.002093	.0100344	.0010094	.027100	-.000705
#3	-.003575	.000283	.004400	.0107825	-.000454	-.016224	-.007642

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000692	-.000093	.0549293	.0000471	.0000591	-.012459	.0056215
Stddev	.0002018	.000070	.0178161	.0003222	.0003259	.013952	.0474716
%RSD	291.7261	75.20318	32.43455	683.6338	551.4134	111.9796	844.4599
#1	.0000682	-.000014	.0752345	-.000315	.0004131	-.027310	-.047427
#2	-.000132	-.000116	.0419159	.000302	-.000228	.000373	.020190
#3	.000271	-.000148	.0476373	.000154	-.000007	-.010439	.044102

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0009914	-.031582	.0000493	.0001282	.1692421	-.009088	.0037938
Stddev	.0009277	.188609	.0008099	.0004348	.0040028	.007399	.0009078
%RSD	93.57627	597.2038	1644.037	339.1981	2.365158	81.41708	23.92787
#1	.0020183	.141683	-.000629	-.000058	.1738620	-.001703	.0047393
#2	.0002138	-.232485	.000946	-.000182	.1668108	-.016502	.0037128
#3	.0007421	-.003944	-.000169	.000625	.1670533	-.009060	.0029292

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1961844	-.002124	.0116049	-.000231	-.000178	-.000635	-.001017
Stddev	.1693356	.001578	.0011486	.000315	.007186	.000598	.001238
%RSD	86.31449	74.29298	9.897835	136.5288	4035.677	94.23756	121.7557
#1	.3499806	-.001230	.0122035	-.000524	.000627	-.001314	.000305
#2	.2238550	-.001196	.0123306	.000103	.006571	-.000407	-.002150
#3	.0147177	-.003946	.0102806	-.000272	-.007732	-.000184	-.001205

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: CCB113 Acquired: 01/05/2025 19:37:05 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB113 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	-.007286	.0002811	.0122884
Stddev	.003630	.0003826	.0023101
%RSD	49.81296	136.1123	18.79896
#1	-.011009	.0006588	.0096763
#2	-.007092	.0002908	.0140626
#3	-.003758	-.000106	.0131263

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1782.001	17886.28	1665.067	1313.986	1998.739
Stddev	2.384	54.53	5.880	1.809	3.092
%RSD	.1337635	.3048463	.3531634	.1376458	.1547030
#1	1779.249	17948.78	1662.688	1315.935	1997.336
#2	1783.425	17861.58	1671.764	1313.660	2002.284
#3	1783.329	17848.47	1660.748	1312.363	1996.597

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: P5080-16 Acquired: 01/05/2025 19:41:06 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHLH9 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0362453	-.002838	.2216179	.0441745	.0273468	52.03824
Stddev	.0009327	.000628	.0021776	.0067846	.0032444	.11721
%RSD	2.573319	22.11977	.9825859	15.35852	11.86390	.2252307
#1	.0351968	-.002732	.2204240	.0472149	.0236584	51.96097
#2	.0365562	-.003513	.2241313	.0489070	.0297591	51.98064
#3	.0369828	-.002270	.2202984	.0364015	.0286231	52.17310

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5817546	.0048349	.0023356	263.5380	.0829871	.0947378
Stddev	.0045905	.0001624	.0001996	.8421	.0002939	.0009637
%RSD	.7890717	3.360000	8.547248	.3195185	.3541134	1.017188
#1	.5820447	.0048889	.0021212	263.2841	.0827423	.0945548
#2	.5770260	.0049634	.0025161	262.8522	.0829061	.0957798
#3	.5861931	.0046523	.0023694	264.4778	.0833130	.0938787

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2192517	125.1354	3.245526	72.63265	.1346766	-.008514
Stddev	.0032272	.4422	.013089	.44540	.0012305	.000731
%RSD	1.471935	.3534079	.4032829	.6132277	.9136877	8.580993
#1	.2166810	124.9977	3.253665	73.10535	.1352322	-.008917
#2	.2182005	124.7784	3.230428	72.57180	.1332662	-.007671
#3	.2228734	125.6301	3.252485	72.22080	.1355313	-.008955

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8524644	.1274181	.4754976	7.921656	F 10.07767	-.241825
Stddev	.0007307	.0061770	.0041129	.213831	.01641	.004129
%RSD	.0857186	4.847810	.8649569	2.699323	.1627943	1.707621
#1	.8527598	.1207603	.4723915	8.162965	10.06344	-.245991
#2	.8530012	.1329630	.4739393	7.755713	10.09561	-.241751
#3	.8516322	.1285309	.4801618	7.846288	10.07396	-.237733

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: P5080-16 Acquired: 01/05/2025 19:41:06 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHLH9 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0053905	1.131511	8.922618	.0245433	1.175562	.1583717
Stddev	.0004120	.003614	.039167	.0028828	.010652	.0006674
%RSD	7.643408	.3193537	.4389583	11.74589	.9061098	.4214019
#1	.0049667	1.127393	8.966096	.0226463	1.170713	.1577143
#2	.0054151	1.132989	8.911661	.0278607	1.168197	.1583522
#3	.0057897	1.134152	8.890097	.0231229	1.187776	.1590486

Elem	Li6707
Units	ppm
Avg	.1039952
Stddev	.0029848
%RSD	2.870109
#1	.1016665
#2	.1029592
#3	.1073600

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2104.259	21165.60	1992.504	1541.792	1795.791
Stddev	8.290	74.24	14.371	4.296	7.235
%RSD	.3939837	.3507576	.7212765	.2786354	.4028971
#1	2094.689	21102.57	1978.601	1542.332	1788.207
#2	2108.836	21146.79	1991.609	1545.792	1796.551
#3	2109.252	21247.44	2007.302	1537.251	1802.617

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: P5080-17 Acquired: 01/05/2025 19:44:55 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHLJ0 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0680068	-.006726	.2443314	.0514299	.0323678	63.65709
Stddev	.0053029	.006055	.0019894	.0098306	.0006238	.04934
%RSD	7.797646	90.01996	.8142136	19.11452	1.927345	.0775114
#1	.0636475	-.012229	.2450673	.0627802	.0324389	63.60126
#2	.0664623	-.000239	.2458481	.0456186	.0317115	63.69482
#3	.0739105	-.007711	.2420790	.0458909	.0329530	63.67520

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7234072	.0056168	.0043424	589.5318	.0977429	.1270734
Stddev	.0054838	.0001502	.0000509	2.3850	.0009416	.0005466
%RSD	.7580559	2.674608	1.171904	.4045574	.9633739	.4301731
#1	.7176064	.0054583	.0043913	588.5272	.0988187	.1273935
#2	.7285065	.0057571	.0042897	592.2548	.0970682	.1273844
#3	.7241087	.0056351	.0043461	587.8135	.0973418	.1264422

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3168324	162.7648	7.551825	97.15179	.1836390	-.011482
Stddev	.0103716	.5125	.026405	.20684	.0006730	.001642
%RSD	3.273530	.3148554	.3496453	.2128999	.3664768	14.30445
#1	.3120613	162.7032	7.536390	96.95561	.1843678	-.011812
#2	.3287310	163.3052	7.582314	97.36784	.1830410	-.009699
#3	.3097049	162.2858	7.536772	97.13191	.1835083	-.012934

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.155092	.1662350	.5487890	10.69361	F 10.64884	-.309031
Stddev	.017751	.0064612	.0030221	.13461	.01248	.005611
%RSD	1.536748	3.886789	.5506820	1.258793	.1171551	1.815757
#1	1.134925	.1644835	.5453026	10.53818	10.63793	-.307377
#2	1.168345	.1608301	.5504028	10.77006	10.64616	-.315283
#3	1.162007	.1733914	.5506616	10.77258	10.66244	-.304433

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: P5080-17 Acquired: 01/05/2025 19:44:55 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHLJ0 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0039039	1.636630	8.856941	.0296377	1.208914	.4036606
Stddev	.0002152	.002542	.076972	.0019759	.004576	.0014480
%RSD	5.513145	.1553307	.8690613	6.666845	.3785066	.3587225
#1	.0036897	1.638509	8.786929	.0312966	1.203797	.4044054
#2	.0041202	1.633737	8.939365	.0274517	1.210335	.4045846
#3	.0039018	1.637642	8.844527	.0301648	1.212612	.4019918

Elem	Li6707
Units	ppm
Avg	.1316900
Stddev	.0009886
%RSD	.7506900
#1	.1311547
#2	.1328307
#3	.1310844

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2166.642	21764.59	2102.579	1585.072	1692.751
Stddev	8.978	96.16	15.307	3.772	6.189
%RSD	.4143961	.4418092	.7280217	.2379571	.3656140
#1	2171.213	21668.39	2116.118	1585.308	1697.626
#2	2172.416	21860.71	2085.969	1588.720	1694.838
#3	2156.298	21764.67	2105.651	1581.188	1685.788

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: P5080-18 Acquired: 01/05/2025 19:48:43 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHM29 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0460901	-.006273	.4523898	.0307736	.0257952	54.92249	.5991899
Stddev	.0030647	.000942	.0039245	.0053878	.0030403	.24158	.0049207
%RSD	6.649376	15.01427	.8674988	17.50787	11.78651	.4398485	.8212321
#1	.0477440	-.007045	.4537749	.0363234	.0222993	54.94327	.6047713
#2	.0479726	-.005223	.4554339	.0255639	.0272638	54.67120	.5954776
#3	.0425538	-.006551	.4479606	.0304336	.0278224	55.15301	.5973207

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0047684	.0024626	291.3497	.1096888	.0848976	.0953911	126.9276
Stddev	.0000647	.0000512	.7412	.0002616	.0002754	.0061435	.1988
%RSD	1.356994	2.078443	.2544122	.2385277	.3244117	6.440285	.1565935
#1	.0048431	.0024080	291.9870	.1093867	.0852137	.0986616	127.1085
#2	.0047310	.0025095	290.5363	.1098425	.0847090	.0883042	126.7148
#3	.0047310	.0024704	291.5258	.1098371	.0847701	.0992074	126.9593

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.781126	99.74632	.1086274	-.008439	.9065260	.1125533	.8228170
Stddev	.012059	.17172	.0021606	.002224	.0245965	.0071801	.0023313
%RSD	.3189349	.1721617	1.989040	26.35637	2.713268	6.379312	.2833361
#1	3.790288	99.93471	.1063906	-.010683	.9228994	.1208290	.8203498
#2	3.767464	99.59853	.1087886	-.008398	.9184371	.1079799	.8231180
#3	3.785627	99.70573	.1107028	-.006235	.8782416	.1088512	.8249833

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.466695	9.068009	-.242534	.0063338	1.127480	10.05670	.0460531
Stddev	.153134	.024573	.005425	.0004474	.002858	.11163	.0011565
%RSD	1.617605	.2709808	2.236801	7.063301	.2535229	1.110038	2.511278
#1	9.414871	9.056066	-.247888	.0058482	1.124180	10.18060	.0455759
#2	9.346197	9.051691	-.242672	.0064239	1.129061	10.02555	.0473719
#3	9.639016	9.096270	-.237041	.0067292	1.129199	9.96395	.0452115

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: P5080-18 Acquired: 01/05/2025 19:48:43 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHM29 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.7371708	.2118479	.1075754
Stddev	.0039664	.0018502	.0034736
%RSD	.5380516	.8733650	3.228983
#1	.7361554	.2118421	.1094687
#2	.7415462	.2100006	.1096910
#3	.7338109	.2137010	.1035665

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1999.318	20131.83	1906.319	1460.426	1774.233
Stddev	1.120	87.44	16.886	4.737	1.499
%RSD	.0560144	.4343562	.8858112	.3243532	.0845089
#1	2000.536	20192.61	1886.822	1464.546	1774.900
#2	1998.334	20171.26	1915.850	1461.481	1772.516
#3	1999.084	20031.61	1916.285	1455.250	1775.283

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: P5080-19 Acquired: 01/05/2025 19:52:32 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHM30 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1001660	-.021315	1.694688	.0731845	.0288984	66.70648
Stddev	.0034377	.004187	.005274	.0046595	.0038076	.79720
%RSD	3.432001	19.64262	.3111991	6.366744	13.17592	1.195088
#1	.0972699	-.016508	1.690587	.0739539	.0246130	65.92035
#2	.0992631	-.023271	1.692841	.0774114	.0301899	66.68478
#3	.1039651	-.024165	1.700637	.0681882	.0318922	67.51430

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.187401	.0057161	.0067630	60.03218	.1812744	.0845838
Stddev	.007327	.0000664	.0000901	.24624	.0005623	.0004548
%RSD	.6171002	1.161392	1.331701	.4101855	.3101909	.5377141
#1	1.178941	.0057886	.0068264	59.76503	.1819116	.0846069
#2	1.191532	.0056583	.0066599	60.08145	.1810638	.0850267
#3	1.191730	.0057015	.0068027	60.25007	.1808479	.0841179

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3114330	134.5610	6.693811	25.16761	.1662094	-.007284
Stddev	.0077367	1.0014	.055393	.20939	.0012966	.002401
%RSD	2.484239	.7441627	.8275311	.8319654	.7800972	32.95918
#1	.3060158	133.7577	6.648069	24.93233	.1665025	-.009127
#2	.3079895	134.2424	6.677965	25.23702	.1673343	-.004569
#3	.3202937	135.6828	6.755401	25.33347	.1647913	-.008155

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5301732	.1484259	1.441086	9.295220	F 13.12111	-.263084
Stddev	.0122433	.0053627	.007752	.111158	.00079	.007438
%RSD	2.309299	3.613077	.5379279	1.195862	.0060586	2.827126
#1	.5390103	.1532000	1.432577	9.349352	13.12083	-.261319
#2	.5161981	.1426235	1.442932	9.368944	13.12201	-.256688
#3	.5353112	.1494543	1.447748	9.167366	13.12049	-.271246

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: P5080-19 Acquired: 01/05/2025 19:52:32 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHM30 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0086230	4.375317	10.72553	.0890955	.8642608	.0222554
Stddev	.0002794	.010355	.08468	.0004573	.0059909	.0007895
%RSD	3.239835	.2366595	.7895132	.5132381	.6931856	3.547293
#1	.0085609	4.379088	10.65448	.0890052	.8582776	.0214389
#2	.0089282	4.383258	10.70288	.0886901	.8642455	.0230147
#3	.0083799	4.363606	10.81923	.0895912	.8702594	.0223127

Elem	Li6707
Units	ppm
Avg	.1014614
Stddev	.0017809
%RSD	1.755235
#1	.1014547
#2	.1032456
#3	.0996838

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2094.313	20916.09	1960.214	1534.599	1901.613
Stddev	6.604	65.89	20.800	10.912	1.680
%RSD	.3153071	.3150363	1.061130	.7110741	.0883622
#1	2086.697	20941.93	1975.546	1543.464	1901.299
#2	2098.441	20965.15	1968.560	1537.922	1903.428
#3	2097.802	20841.20	1936.537	1522.412	1900.112

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: P5083-03A Acquired: 01/05/2025 19:56:21 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHLK0A Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1403113	.0363505	2.503814	.2014123	.0384582	74.14622
Stddev	.0025801	.0025913	.007298	.0034260	.0027113	.33124
%RSD	1.838803	7.128777	.2914580	1.700980	7.050117	.4467342
#1	.1376682	.0333588	2.499630	.1978435	.0355073	74.23630
#2	.1404426	.0378957	2.512241	.2046749	.0390276	74.42310
#3	.1428233	.0377969	2.499572	.2017186	.0408395	73.77926

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.480481	.0069813	.0077514	80.26817	.2247977	.1016438
Stddev	.006341	.0001851	.0000338	.47056	.0002458	.0003278
%RSD	.4283221	2.651639	.4356971	.5862368	.1093567	.3224912
#1	1.478244	.0071378	.0077875	80.12488	.2250781	.1016571
#2	1.487637	.0070292	.0077461	80.79372	.2246192	.1013095
#3	1.475561	.0067769	.0077206	79.88591	.2246957	.1019647

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2985256	172.1517	6.432127	33.26930	.1955344	.0062374
Stddev	.0116541	.6614	.034191	.07017	.0008115	.0011557
%RSD	3.903871	.3842202	.5315617	.2109024	.4150103	18.52794
#1	.3098452	171.8901	6.420954	33.28043	.1955586	.0049787
#2	.2991681	172.9039	6.470506	33.33323	.1963335	.0072505
#3	.2865637	171.6611	6.404920	33.19423	.1947111	.0064829

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7015818	.1924457	2.199036	8.868347	F 13.21424	-.358981
Stddev	.0025138	.0002249	.024188	.066203	.01609	.006816
%RSD	.3583104	.1168487	1.099928	.7465128	.1217579	1.898597
#1	.7043598	.1922095	2.187891	8.941330	13.20650	-.366732
#2	.6994639	.1924702	2.182430	8.851551	13.23274	-.353922
#3	.7009216	.1926573	2.226787	8.812159	13.20349	-.356290

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: P5083-03A Acquired: 01/05/2025 19:56:21 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHLK0A Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0090753	2.327934	12.39366	.1347890	.9291877	.0422773
Stddev	.0010830	.011991	.11294	.0022226	.0052631	.0004847
%RSD	11.93341	.5151083	.9112691	1.648975	.5664180	1.146430
#1	.0081576	2.332525	12.51940	.1361351	.9296221	.0427297
#2	.0102698	2.336952	12.36072	.1360084	.9342201	.0423365
#3	.0087984	2.314326	12.30084	.1322236	.9237208	.0417657

Elem	Li6707
Units	ppm
Avg	.1230130
Stddev	.0032023
%RSD	2.603231
#1	.1237018
#2	.1258149
#3	.1195224

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2190.759	21855.73	2036.978	1597.829	1923.830
Stddev	5.741	152.85	20.411	5.801	2.997
%RSD	.2620605	.6993528	1.002001	.3630816	.1557612
#1	2193.795	21958.72	2022.092	1604.424	1926.975
#2	2194.344	21680.11	2028.597	1595.552	1923.507
#3	2184.137	21928.35	2060.245	1593.513	1921.008

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: P5086-16DLX4 Acquired: 01/05/2025 20:00:10 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHLN9 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0072599	.0215323	.0967892	-.027293	.0077807	9.663614	.1329681
Stddev	.0018975	.0026194	.0036886	.003834	.0047102	.054902	.0014379
%RSD	26.13669	12.16487	3.811003	14.04930	60.53663	.5681291	1.081389
#1	.0062225	.0186142	.1008785	-.024595	.0117192	9.606385	.1343533
#2	.0061073	.0223024	.0957763	-.031683	.0025631	9.715847	.1330681
#3	.0094500	.0236803	.0937129	-.025602	.0090599	9.668609	.1314828

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0016426	.0006801	474.6928	.0169782	.0527266	.0305495	41.19332
Stddev	.0001612	.0000930	1.9966	.0004020	.0009562	.0132694	.25076
%RSD	9.812877	13.67066	.4206053	2.368005	1.813417	43.43583	.6087497
#1	.0016217	.0007856	472.3979	.0174134	.0531646	.0454981	41.01904
#2	.0014929	.0006445	476.0308	.0166208	.0533853	.0201630	41.48072
#3	.0018133	.0006102	475.6498	.0169002	.0516299	.0259873	41.08022

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.799878	85.29568	.0352835	-.002481	.5302946	.0297883	.0659131
Stddev	.003724	.54202	.0005961	.002603	.0129893	.0017889	.0005052
%RSD	.2069235	.6354545	1.689554	104.9168	2.449457	6.005497	.7663918
#1	1.797776	84.67011	.0356491	-.005430	.5206025	.0277423	.0664850
#2	1.804178	85.59190	.0356059	-.000499	.5450538	.0310578	.0655277
#3	1.797679	85.62504	.0345956	-.001515	.5252275	.0305647	.0657264

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.378243	1.103640	-.058731	.0047242	.8820703	2.634993	.0113400
Stddev	.157089	.003463	.001336	.0010434	.0062989	.004063	.0020774
%RSD	6.605239	.3137456	2.275495	22.08661	.7141088	.1542051	18.31950
#1	2.231889	1.101799	-.058806	.0048812	.8748778	2.631303	.0099538
#2	2.358617	1.101487	-.057359	.0056802	.8866033	2.634329	.0137286
#3	2.544222	1.107635	-.060028	.0036112	.8847298	2.639347	.0103378

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: P5086-16DLX4 Acquired: 01/05/2025 20:00:10 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHLN9 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.0311197	.3499563	.0322089
Stddev	.0071160	.0017267	.0067775
%RSD	22.86637	.4933929	21.04232
#1	.0320589	.3481934	.0253933
#2	.0235808	.3516443	.0322857
#3	.0377194	.3500313	.0389477

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1743.764	17567.71	1672.112	1276.423	1736.896
Stddev	1.803	55.79	2.432	8.213	3.834
%RSD	.1033732	.3175713	.1454446	.6434433	.2207235
#1	1744.731	17554.37	1672.474	1285.265	1740.487
#2	1744.877	17519.81	1669.520	1269.033	1737.343
#3	1741.684	17628.97	1674.343	1274.970	1732.859

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: P5122-12A Acquired: 01/05/2025 20:04:05 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMC9A Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1382048	.0400480	5.031657	.0808342	.0570222	58.02783
Stddev	.0078562	.0025963	.005496	.0008220	.0032950	.42172
%RSD	5.684448	6.483070	.1092289	1.016848	5.778540	.7267578
#1	.1472763	.0408106	5.031218	.0817130	.0584682	58.14931
#2	.1336635	.0371558	5.026394	.0800842	.0593470	57.55870
#3	.1336745	.0421776	5.037360	.0807055	.0532514	58.37548

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.881177	.0075336	.0073198	439.6925	.1658945	.1257456
Stddev	.008228	.0001165	.0001252	1.1697	.0009576	.0001726
%RSD	.4373887	1.546337	1.709712	.2660238	.5772280	.1372398
#1	1.872029	.0076199	.0072477	438.5498	.1647982	.1255633
#2	1.883529	.0075798	.0072473	439.6402	.1665671	.1257672
#3	1.887973	.0074011	.0074643	440.8875	.1663183	.1259064

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3893341	214.3634	6.734400	69.30185	.2376540	-.014279
Stddev	.0035157	.8168	.026215	.18757	.0017416	.001143
%RSD	.9029923	.3810362	.3892747	.2706622	.7328392	8.003109
#1	.3932583	214.1846	6.705131	69.28166	.2370526	-.014827
#2	.3864718	213.6509	6.742348	69.12519	.2362928	-.012965
#3	.3882722	215.2549	6.755722	69.49870	.2396167	-.015044

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.435437	.2375943	3.078132	10.91828	F 15.44669	-.401187
Stddev	.030397	.0084329	.031252	.18463	.04853	.004073
%RSD	2.117589	3.549274	1.015283	1.691010	.3142081	1.015238
#1	1.424866	.2417833	3.042397	10.96932	15.44033	-.398105
#2	1.411737	.2278872	3.091652	10.71349	15.40164	-.405805
#3	1.469708	.2431125	3.100347	11.07201	15.49809	-.399651

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: P5122-12A Acquired: 01/05/2025 20:04:05 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMC9A Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0097285	4.391326	9.648822	.2277534	1.264643	.9102519
Stddev	.0003915	.010908	.043064	.0016917	.004060	.0026386
%RSD	4.024273	.2483981	.4463101	.7427765	.3210300	.2898786
#1	.0098864	4.386449	9.696783	.2297010	1.267844	.9114584
#2	.0100163	4.403822	9.613471	.2266489	1.260077	.9072257
#3	.0092827	4.383707	9.636211	.2269103	1.266009	.9120715

Elem	Li6707
Units	ppm
Avg	.1125156
Stddev	.0075650
%RSD	6.723485
#1	.1150662
#2	.1184756
#3	.1040050

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1947.106	19525.24	1880.270	1429.763	1777.431
Stddev	3.058	136.34	6.754	14.979	5.500
%RSD	.1570713	.6982536	.3592236	1.047681	.3094183
#1	1945.905	19681.33	1878.164	1445.718	1775.093
#2	1950.583	19464.93	1887.827	1427.567	1783.714
#3	1944.831	19429.46	1874.820	1416.002	1773.487

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: P5124-19A Acquired: 01/05/2025 20:07:52 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHM88A Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1250493	.0495304	.7960382	.0436152	.0233767	51.86135	.6472521
Stddev	.0011140	.0080423	.0081913	.0046544	.0013967	.37105	.0047497
%RSD	.8908458	16.23719	1.029011	10.67158	5.974914	.7154692	.7338316
#1	.1251793	.0587055	.7901249	.0396848	.0235417	51.74315	.6423165
#2	.1238760	.0437012	.7926018	.0424058	.0219048	52.27711	.6517911
#3	.1260926	.0461844	.8053880	.0487549	.0246837	51.56380	.6476486

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0074982	.0024210	77.09306	.0760185	.0765905	.1452162	108.1002
Stddev	.0001845	.0000418	.39996	.0001220	.0004095	.0081280	.6052
%RSD	2.459948	1.726446	.5187964	.1604372	.5346010	5.597144	.5598129
#1	.0076845	.0023851	76.81959	.0759399	.0766185	.1538138	107.6295
#2	.0073157	.0024109	77.55209	.0761590	.0761678	.1441770	108.7828
#3	.0074944	.0024669	76.90750	.0759565	.0769853	.1376578	107.8883

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.893495	22.36111	.1293143	-.007798	.8887547	.1439623	.5249480
Stddev	.041984	.18067	.0016334	.001328	.0268602	.0064033	.0021326
%RSD	.7123854	.8079790	1.263083	17.03098	3.022229	4.447928	.4062547
#1	5.857512	22.33661	.1303466	-.008965	.9144271	.1427232	.5229692
#2	5.939622	22.55278	.1274312	-.006353	.8909905	.1508947	.5246679
#3	5.883352	22.19394	.1301651	-.008077	.8608465	.1382691	.5272068

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.912860	4.392175	-.156680	.0115444	4.918115	7.682892	.0413679
Stddev	.353574	.017708	.003162	.0005908	.032254	.083554	.0029609
%RSD	9.036198	.4031759	2.018326	5.117989	.6558217	1.087538	7.157530
#1	4.086229	4.381803	-.159124	.0121973	4.906885	7.693513	.0381123
#2	4.146287	4.382099	-.157807	.0110467	4.892978	7.760629	.0439001
#3	3.506063	4.412621	-.153108	.0113891	4.954483	7.594535	.0420914

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: P5124-19A Acquired: 01/05/2025 20:07:52 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHM88A Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	1.403995	.3366435	.0689657
Stddev	.009159	.0015276	.0022557
%RSD	.6523473	.4537828	3.270754
#1	1.395689	.3363441	.0694974
#2	1.413818	.3382987	.0664916
#3	1.402479	.3352878	.0709080

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1941.164	19371.76	1820.967	1429.671	1954.082
Stddev	4.622	69.84	11.880	9.697	5.893
%RSD	.2380801	.3605429	.6523872	.6782949	.3015975
#1	1945.421	19351.86	1818.526	1428.757	1960.353
#2	1936.248	19449.39	1810.497	1439.794	1948.658
#3	1941.824	19314.02	1833.877	1420.464	1953.236

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: P5126-03A Acquired: 01/05/2025 20:11:40 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMA0A Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1850887	.0378470	4.262377	.0732929	.0492941	52.49515
Stddev	.0031249	.0041724	.020356	.0011412	.0038380	.61779
%RSD	1.688315	11.02445	.4775746	1.557112	7.785871	1.176843
#1	.1855097	.0413078	4.275041	.0746086	.0499991	52.89088
#2	.1817747	.0332138	4.238896	.0726997	.0527307	52.81129
#3	.1879818	.0390195	4.273194	.0725704	.0451525	51.78327

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.531359	.0075233	.0081395	177.7024	.1751167	.1059076
Stddev	.016825	.0000938	.0001118	1.9346	.0013861	.0005258
%RSD	1.098728	1.246880	1.373632	1.088692	.7915534	.4964374
#1	1.537760	.0076215	.0081300	178.8329	.1746254	.1062087
#2	1.544045	.0075139	.0080327	178.8058	.1740431	.1053005
#3	1.512273	.0074346	.0082557	175.4685	.1766816	.1062136

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5643709	178.2638	6.018474	48.47369	.2075607	-.008177
Stddev	.0047460	2.1214	.070918	.57543	.0013642	.001039
%RSD	.8409442	1.190058	1.178336	1.187100	.6572396	12.70845
#1	.5694208	179.7045	6.069948	49.00482	.2088886	-.007313
#2	.5636896	179.2592	6.047894	48.55390	.2076305	-.007889
#3	.5600024	175.8277	5.937581	47.86237	.2061630	-.009330

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9830315	.1836444	3.331514	6.016317	F 14.20923	-.363870
Stddev	.0193666	.0080763	.025787	.294123	.07180	.010405
%RSD	1.970094	4.397820	.7740264	4.888748	.5053171	2.859481
#1	.9857347	.1756989	3.361265	6.097739	14.25229	-.371265
#2	1.000904	.1833886	3.317683	6.261151	14.12634	-.368373
#3	.962455	.1918456	3.315593	5.690061	14.24906	-.351972

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: P5126-03A Acquired: 01/05/2025 20:11:40 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMA0A Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0131584	3.934782	9.291042	.3933277	1.055015	.2628794
Stddev	.0005145	.005074	.183228	.0045253	.008744	.0021736
%RSD	3.909784	.1289425	1.972093	1.150510	.8288207	.8268383
#1	.0128479	3.939284	9.441178	.3985470	1.059507	.2644250
#2	.0128751	3.929284	9.345074	.3905015	1.060599	.2638190
#3	.0137523	3.935776	9.086873	.3909345	1.044937	.2603940

Elem	Li6707
Units	ppm
Avg	.0882476
Stddev	.0055319
%RSD	6.268660
#1	.0933327
#2	.0890530
#3	.0823571

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1994.281	19838.79	1897.820	1448.510	1896.724
Stddev	6.849	28.52	28.670	5.054	10.048
%RSD	.3434361	.1437388	1.510703	.3489202	.5297319
#1	1993.392	19831.93	1876.705	1446.293	1892.504
#2	2001.531	19870.11	1886.294	1454.294	1908.194
#3	1987.920	19814.33	1930.459	1444.943	1889.475

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: P5128-19A Acquired: 01/05/2025 20:15:28 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMK9A Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7378207	.0496381	5.220231	.0979513	.0408061	66.23314
Stddev	.0075691	.0035362	.031387	.0162705	.0022192	4.41370
%RSD	1.025869	7.123941	.6012639	16.61080	5.438287	6.663886
#1	.7458704	.0474163	5.249755	.1133835	.0423743	71.32190
#2	.7308475	.0477821	5.187265	.0809554	.0417769	63.44553
#3	.7367441	.0537159	5.223674	.0995149	.0382669	63.93198

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.145726	.0072271	.0154378	119.9035	.1700628	.1391444
Stddev	.133619	.0004805	.0001423	7.3918	.0004045	.0013437
%RSD	6.227234	6.648285	.9216926	6.164797	.2378739	.9657236
#1	2.298764	.0077044	.0153084	128.4045	.1696382	.1402298
#2	2.052218	.0067435	.0155902	114.9904	.1704437	.1376414
#3	2.086195	.0072335	.0154149	116.3157	.1701067	.1395619

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7765469	189.8336	16.19669	32.56204	.2320667	-.001928
Stddev	.0312385	12.0793	1.01204	2.12717	.0017129	.002608
%RSD	4.022746	6.363106	6.248452	6.532669	.7380898	135.2260
#1	.8123321	203.7600	17.36446	35.01645	.2335560	.000942
#2	.7547289	182.1985	15.57439	31.41711	.2301949	-.004151
#3	.7625797	183.5424	15.65123	31.25256	.2324492	-.002576

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.198329	.1704235	3.323244	9.315643	F 11.77566	-.395087
Stddev	.069497	.0038275	.006770	.687982	.08167	.018606
%RSD	5.799532	2.245850	.2037041	7.385236	.6935785	4.709254
#1	1.278442	.1746341	3.323489	10.10962	11.84801	-.415728
#2	1.154239	.1694813	3.316355	8.94153	11.68710	-.379606
#3	1.162304	.1671551	3.329887	8.89579	11.79187	-.389928

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: P5128-19A Acquired: 01/05/2025 20:15:28 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMK9A Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0129597	3.176945	9.973848	.2364317	.7445053	.0643268
Stddev	.0004202	.022887	.533885	.0024085	.0532839	.0050842
%RSD	3.242119	.7204066	5.352850	1.018677	7.156953	7.903764
#1	.0130931	3.201778	10.58829	.2391829	.8047313	.0700671
#2	.0132969	3.156699	9.62332	.2347045	.7034931	.0603907
#3	.0124890	3.172357	9.70993	.2354076	.7252914	.0625226

Elem	Li6707
Units	ppm
Avg	.0950764
Stddev	.0077791
%RSD	8.181922
#1	.1039080
#2	.0892403
#3	.0920810

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2176.280	21626.90	2003.087	1584.306	1933.702
Stddev	12.342	75.00	103.812	1.330	9.876
%RSD	.5671235	.3468064	5.182611	.0839252	.5107236
#1	2176.366	21669.58	1883.512	1583.092	1928.398
#2	2188.578	21540.30	2070.176	1585.727	1945.097
#3	2163.894	21670.82	2055.574	1584.100	1927.612

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: P5129-01A Acquired: 01/05/2025 20:19:16 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMK3A Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1900623	.0395317	2.393224	.2507695	.0358880	69.15522
Stddev	.0042347	.0058803	.021404	.0053243	.0032631	2.89960
%RSD	2.228057	14.87478	.8943577	2.123165	9.092496	4.192881
#1	.1851792	.0463209	2.375608	.2492346	.0386745	65.84008
#2	.1927261	.0360564	2.417045	.2566926	.0366911	70.40656
#3	.1922816	.0362176	2.387018	.2463814	.0322983	71.21903

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.457638	.0072263	.0077153	60.75031	.1415283	.1368691
Stddev	.066896	.0002181	.0001646	2.79709	.0007141	.0007741
%RSD	4.589322	3.018883	2.133766	4.604234	.5045999	.5655912
#1	1.380406	.0069867	.0078880	57.52275	.1418634	.1359788
#2	1.497431	.0072788	.0075602	62.25991	.1407082	.1373840
#3	1.495079	.0074134	.0076977	62.46826	.1420132	.1372444

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.189234	168.8884	16.87737	18.94768	.2137594	-.007009
Stddev	.058113	7.0992	.71380	.90666	.0014459	.000916
%RSD	4.886589	4.203514	4.229337	4.785086	.6764112	13.06538
#1	1.122134	160.7160	16.05448	17.90419	.2123004	-.007725
#2	1.222186	172.4194	17.24817	19.39611	.2151918	-.005977
#3	1.223381	173.5299	17.32945	19.54275	.2137858	-.007324

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4963230	.1863838	3.732113	10.35301	F 11.45540	-.353229
Stddev	.0316239	.0166510	.026241	.44605	.07644	.006702
%RSD	6.371643	8.933718	.7031181	4.308431	.6673060	1.897292
#1	.4682177	.1705572	3.762214	9.84028	11.41061	-.345557
#2	.4901854	.2037520	3.714060	10.65174	11.54367	-.357939
#3	.5305658	.1848423	3.720064	10.56701	11.41193	-.356192

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: P5129-01A Acquired: 01/05/2025 20:19:16 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMK3A Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0118345	3.472626	9.986254	.1852000	.7528422	.0793442
Stddev	.0006894	.018704	.329223	.0024600	.0335720	.0032486
%RSD	5.825450	.5385984	3.296761	1.328277	4.459363	4.094316
#1	.0111842	3.468510	9.606107	.1826584	.7145767	.0756258
#2	.0125573	3.493045	10.17832	.1875692	.7773501	.0807747
#3	.0117620	3.456323	10.17434	.1853724	.7665999	.0816320

Elem	Li6707
Units	ppm
Avg	.0956528
Stddev	.0036922
%RSD	3.859985
#1	.0918042
#2	.0991656
#3	.0959888

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2186.558	21924.97	2098.049	1610.190	1930.600
Stddev	6.644	51.46	68.060	11.619	6.909
%RSD	.3038403	.2346997	3.243971	.7215802	.3578819
#1	2193.176	21881.52	2176.477	1598.721	1936.477
#2	2179.889	21981.79	2063.193	1621.953	1922.989
#3	2186.608	21911.59	2054.478	1609.895	1932.333

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: P5130-15A Acquired: 01/05/2025 20:23:05 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMH5A Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4430422	.0376727	4.885795	.2834623	.0503076	60.09485
Stddev	.0058990	.0025330	.020530	.0094954	.0012180	.78695
%RSD	1.331479	6.723577	.4201901	3.349807	2.421165	1.309518
#1	.4401943	.0371707	4.908156	.2851959	.0514292	59.73517
#2	.4498249	.0354283	4.881430	.2732194	.0504817	60.99737
#3	.4391075	.0404190	4.867799	.2919714	.0490119	59.55201

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.293765	.0059406	.0159490	134.9033	.1493282	.1297611
Stddev	.052702	.0002507	.0002345	2.1440	.0003803	.0002181
%RSD	1.600041	4.219531	1.470447	1.589256	.2547007	.1681098
#1	3.255018	.0059297	.0162038	133.4822	.1497362	.1295689
#2	3.353776	.0061965	.0157422	137.3694	.1489835	.1297163
#3	3.272500	.0056955	.0159009	133.8583	.1492648	.1299982

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.944797	221.4554	15.78798	39.67328	.1714419	-.011601
Stddev	.021276	2.9664	.22287	.53945	.0008759	.001172
%RSD	1.094005	1.339505	1.411665	1.359735	.5108965	10.10635
#1	1.924690	220.3997	15.65071	39.56340	.1724501	-.011278
#2	1.967076	224.8053	16.04513	40.25921	.1710064	-.010623
#3	1.942625	219.1613	15.66809	39.19722	.1708690	-.012901

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8951436	.1490950	5.423755	7.412450	F 27.29308	-.471584
Stddev	.0152378	.0086219	.014058	.156578	.07959	.009012
%RSD	1.702273	5.782801	.2591850	2.112360	.2915969	1.911073
#1	.8934173	.1392430	5.436710	7.262501	27.38004	-.462935
#2	.9111710	.1552619	5.425747	7.574906	27.27531	-.480920
#3	.8808425	.1527800	5.408808	7.399943	27.22388	-.470895

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: P5130-15A Acquired: 01/05/2025 20:23:05 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMH5A Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0149724	7.061507	9.831607	.7190368	.9400064	.2359625
Stddev	.0005475	.034992	.163286	.0025916	.0152879	.0036943
%RSD	3.656431	.4955303	1.660826	.3604307	1.626365	1.565626
#1	.0143594	7.101784	9.769164	.7208950	.9275187	.2332082
#2	.0154127	7.044156	10.01690	.7201391	.9570560	.2401606
#3	.0151452	7.038581	9.70876	.7160762	.9354445	.2345186

Elem	Li6707
Units	ppm
Avg	.0875624
Stddev	.0009604
%RSD	1.096871
#1	.0870538
#2	.0886702
#3	.0869632

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2086.055	20914.93	1972.208	1525.923	1849.153
Stddev	2.584	86.95	26.076	6.558	.877
%RSD	.1238562	.4157413	1.322159	.4298047	.0474283
#1	2088.889	20863.96	1979.199	1519.221	1848.451
#2	2085.445	21015.33	1943.349	1532.328	1850.136
#3	2083.831	20865.50	1994.075	1526.221	1848.874

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: P5201-19A Acquired: 01/05/2025 20:26:52 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNE7A Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1033664	-.006273	.3684040	.3554620	.0605938	108.8875	.7432541
Stddev	.0042293	.002393	.0019113	.0023369	.0019753	.6464	.0024368
%RSD	4.091556	38.15192	.5187999	.6574108	3.259941	.5936337	.3278505
#1	.1043556	-.009036	.3662050	.3570914	.0622549	108.1419	.7424751
#2	.1070134	-.004921	.3693418	.3527846	.0584095	109.2320	.7459851
#3	.0987301	-.004862	.3696653	.3565101	.0611170	109.2887	.7413021

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0093050	.0033281	29.81348	.1393501	.1502864	.1813369	273.7324
Stddev	.0000799	.0001313	.01294	.0008940	.0009574	.0081602	1.1311
%RSD	.8586871	3.944851	.0434088	.6415502	.6370312	4.500014	.4132122
#1	.0092976	.0034563	29.81446	.1392103	.1509569	.1867985	272.4425
#2	.0093883	.0031940	29.82591	.1403058	.1507122	.1852558	274.1998
#3	.0092291	.0033340	29.80008	.1385343	.1491899	.1719565	274.5549

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	15.39219	32.65462	.2070940	-.019524	.5310472	.2701668	.7352968
Stddev	.05344	.20569	.0008503	.001035	.0070778	.0170732	.0018663
%RSD	.3471879	.6298988	.4105727	5.303172	1.332806	6.319503	.2538191
#1	15.33064	32.42710	.2061924	-.018337	.5330207	.2825040	.7334924
#2	15.42675	32.70936	.2072081	-.019993	.5231921	.2773150	.7372194
#3	15.41920	32.82740	.2078815	-.020242	.5369288	.2506813	.7351787

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.610248	3.537924	-.625042	.0066990	.5541326	6.798337	.0331275
Stddev	.281867	.009618	.006043	.0003134	.0062917	.026590	.0022061
%RSD	3.703777	.2718578	.9668648	4.677988	1.135406	.3911298	6.659433
#1	7.291429	3.547582	-.628855	.0068398	.5553073	6.828997	.0307445
#2	7.712964	3.537846	-.628198	.0069173	.5597541	6.781592	.0350986
#3	7.826353	3.528346	-.618075	.0063400	.5473364	6.784421	.0335396

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: P5201-19A Acquired: 01/05/2025 20:26:52 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNE7A Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	1.205898	-.165912	.1193270
Stddev	.013104	.000493	.0053283
%RSD	1.086694	.2971940	4.465307
#1	1.194835	-.165364	.1188483
#2	1.220370	-.166318	.1142542
#3	1.202489	-.166055	.1248785

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2313.940	23039.65	2161.973	1683.929	1896.231
Stddev	2.877	103.92	11.159	3.274	1.728
%RSD	.1243290	.4510420	.5161263	.1944203	.0911240
#1	2311.729	22981.44	2149.333	1680.860	1894.442
#2	2317.193	22977.88	2166.132	1683.551	1897.890
#3	2312.899	23159.62	2170.455	1687.375	1896.361

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: P5212-05A Acquired: 01/05/2025 20:30:40 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNF3A Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1108983	-.008235	1.739211	.1584848	.0340800	62.54046
Stddev	.0064614	.003223	.006002	.0062783	.0048221	.27006
%RSD	5.826423	39.14384	.3451230	3.961451	14.14943	.4318098
#1	.1078179	-.011747	1.738424	.1513362	.0285229	62.66476
#2	.1065535	-.005413	1.733641	.1610150	.0371617	62.23063
#3	.1183235	-.007544	1.745569	.1631033	.0365553	62.72598

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.772757	.0056487	.0053830	274.2276	.1557645	.1278986
Stddev	.011887	.0001386	.0000213	.9382	.0007173	.0005722
%RSD	.6705341	2.453745	.3948859	.3421188	.4604924	.4473520
#1	1.759250	.0055523	.0053995	273.2711	.1549380	.1280354
#2	1.777395	.0055862	.0053590	274.2654	.1561317	.1272704
#3	1.781626	.0058075	.0053904	275.1463	.1562239	.1283899

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3752486	155.5286	12.66560	39.12284	.1484832	-.007725
Stddev	.0068517	.2722	.03840	.18816	.0007288	.001560
%RSD	1.825917	.1750046	.3031628	.4809588	.4908504	20.19021
#1	.3674693	155.4510	12.65650	39.30114	.1480791	-.006519
#2	.3778901	155.3036	12.63258	38.92616	.1480459	-.009487
#3	.3803863	155.8311	12.70774	39.14122	.1493245	-.007170

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7075833	.1560318	1.043240	7.363163	F 13.80707	-.310288
Stddev	.0151433	.0081728	.006310	.193058	.01948	.000452
%RSD	2.140140	5.237919	.6048353	2.621949	.1410821	.1456306
#1	.7092506	.1636631	1.049650	7.143067	13.79242	-.310389
#2	.7218240	.1570243	1.043035	7.503866	13.79963	-.309793
#3	.6916754	.1474081	1.037035	7.442556	13.82918	-.310680

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: P5212-05A Acquired: 01/05/2025 20:30:40 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNF3A Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0124110	2.962862	12.20760	.0889542	.7105796	.1919485
Stddev	.0010244	.006018	.01156	.0017078	.0032273	.0012895
%RSD	8.253993	.2031111	.0947316	1.919817	.4541782	.6717892
#1	.0122105	2.956226	12.20459	.0888358	.7113060	.1905015
#2	.0115017	2.967966	12.22037	.0873087	.7070510	.1923682
#3	.0135208	2.964396	12.19784	.0907180	.7133818	.1929759

Elem	Li6707
Units	ppm
Avg	.1040767
Stddev	.0017256
%RSD	1.657962
#1	.1029158
#2	.1060596
#3	.1032547

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2164.725	21808.25	2069.094	1594.377	1849.360
Stddev	3.540	61.12	4.727	3.104	2.410
%RSD	.1635227	.2802797	.2284500	.1946817	.1303372
#1	2166.892	21877.60	2074.371	1590.795	1851.532
#2	2160.640	21784.93	2067.663	1596.056	1846.767
#3	2166.642	21762.22	2065.249	1596.280	1849.782

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: PB165852BL Acquired: 01/05/2025 20:34:28 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: PBS852 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.002595	-.000957	-.001572	.0063280	.0036743	-.006260	-.003797
Stddev	.005214	.003213	.002139	.0018018	.0063678	.010957	.002264
%RSD	200.9592	335.5695	136.0832	28.47373	173.3075	175.0300	59.62660
#1	.001594	.000215	-.003879	.0074798	.0076425	.006074	-.001251
#2	-.000944	.001505	.000346	.0042516	.0070510	-.014870	-.004558
#3	-.008434	-.004591	-.001184	.0072527	-.003671	-.009984	-.005583

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001889	-.000030	.0027087	.0002015	.0003315	-.004443	-.001901
Stddev	.0001380	.000034	.0692882	.0013303	.0002918	.010221	.015857
%RSD	73.06253	113.2855	2557.944	660.3390	88.03578	230.0344	834.3452
#1	.0003478	.000002	-.010981	.0004873	.0001439	.007213	.004380
#2	.0000997	-.000066	-.058713	.0013656	.0001828	-.011876	-.019936
#3	.0001191	-.000027	.077820	-.001249	.0006677	-.008667	.009855

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.002047	.0262738	.0006066	-.001154	.0076574	-.008295	.0030676
Stddev	.002265	.0500384	.0001031	.001793	.0147147	.012257	.0006815
%RSD	110.6672	190.4497	16.99837	155.3672	192.1635	147.7655	22.21480
#1	-.002799	.0685342	.0005671	-.003181	.0074285	-.009833	.0034927
#2	.000499	.0392669	.0007236	.000226	-.006942	-.019710	.0034287
#3	-.003841	-.028980	.0005291	-.000508	.022485	.004659	.0022816

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.035086	-.001764	.0003417	-.001469	.0006695	-.000178	-.001461
Stddev	.177605	.001133	.0018669	.000673	.0032312	.000790	.001519
%RSD	506.1954	64.24401	546.2788	45.82067	482.6253	442.6339	104.0205
#1	-.114890	-.001872	-.001488	-.000726	-.001889	.000733	-.000236
#2	.168422	-.002839	.000269	-.002039	-.000403	-.000619	-.003161
#3	-.158791	-.000580	.002244	-.001642	.004301	-.000650	-.000986

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: PB165852BL Acquired: 01/05/2025 20:34:28 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: PBS852 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	-.003942	-.000132	.0026241
Stddev	.002320	.000176	.0051248
%RSD	58.84983	133.1469	195.2968
#1	-.005238	-.000289	.0035160
#2	-.005326	-.000167	.0072444
#3	-.001264	.000058	-.002888

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1779.352	17822.90	1660.046	1309.885	1994.734
Stddev	1.318	167.56	10.488	12.908	5.034
%RSD	.0740818	.9401461	.6317942	.9854534	.2523804
#1	1779.149	17763.94	1648.263	1306.952	1998.665
#2	1780.759	17692.78	1663.516	1298.696	1996.478
#3	1778.146	18011.97	1668.359	1324.008	1989.060

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: PB165852BS Acquired: 01/05/2025 20:38:29 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: LCS852 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0241411	.0447997	.0185299	.0680009	.1049930	.3995630
Stddev	.0057281	.0040646	.0012600	.0084598	.0020165	.0069568
%RSD	23.72747	9.072842	6.799725	12.44077	1.920643	1.741116
#1	.0298405	.0465263	.0177170	.0733944	.1068008	.3935540
#2	.0241979	.0401568	.0199813	.0582507	.1028181	.4071845
#3	.0183848	.0477160	.0178913	.0723575	.1053600	.3979506

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3943494	.0105824	.0095616	10.01067	.0203826	.0979843
Stddev	.0035231	.0003798	.0001038	.09294	.0011912	.0004026
%RSD	.8933872	3.588742	1.085968	.9283748	5.844195	.4108525
#1	.3966141	.0103217	.0095348	9.95580	.0190784	.0983772
#2	.3902904	.0104073	.0094737	9.95825	.0214132	.0975727
#3	.3961438	.0110181	.0096762	10.11798	.0206562	.0980029

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0490378	.1956979	.0313141	10.19936	.0760770	.0191700
Stddev	.0143649	.0454340	.0006448	.04583	.0008403	.0007670
%RSD	29.29356	23.21639	2.059110	.4493592	1.104499	4.001218
#1	.0456033	.2469009	.0317024	10.20598	.0758336	.0185183
#2	.0648086	.1799926	.0305698	10.15058	.0770121	.0189763
#3	.0367014	.1602001	.0316702	10.24152	.0753853	.0200153

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.683206	.0988431	.1178237	9.359477	.0188710	F .0011132
Stddev	.025646	.0127806	.0003764	.082591	.0036727	.0035584
%RSD	.3337900	12.93024	.3194438	.8824282	19.46189	319.6498
#1	7.654568	.0983711	.1175286	9.264265	.0165427	-.001717
#2	7.704054	.1118532	.1182475	9.411800	.0169655	-.000051
#3	7.690995	.0863050	.1176948	9.402365	.0231047	.005108

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: PB165852BS Acquired: 01/05/2025 20:38:29 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: LCS852 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0194053	.1735523	F .4829502	F .0097447	.1857922	.2061574
Stddev	.0008670	.0020256	.0020595	.0011441	.0020111	.0012779
%RSD	4.467968	1.167122	.4264385	11.74044	1.082448	.6198472
#1	.0200535	.1730571	.4805780	.0110581	.1839976	.2047756
#2	.0197420	.1718203	.4839908	.0092106	.1879659	.2064001
#3	.0184205	.1757796	.4842817	.0089653	.1854130	.2072964

Elem	Li6707
Units	ppm
Avg	.0318231
Stddev	.0053648
%RSD	16.85831
#1	.0256288
#2	.0348589
#3	.0349817

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1764.879	17609.84	1642.789	1288.446	1968.151
Stddev	4.894	51.19	3.437	10.656	5.140
%RSD	.2773172	.2907123	.2092049	.8270144	.2611393
#1	1769.524	17560.32	1646.484	1290.852	1972.797
#2	1759.769	17606.65	1639.688	1276.793	1962.630
#3	1765.345	17662.56	1642.194	1297.693	1969.025

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: P5126-01 Acquired: 01/05/2025 20:42:26 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHM98 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1006016	-.008049	3.515977	.0472783	.0398664	40.67094
Stddev	.0031878	.002195	.004477	.0041849	.0021481	.29964
%RSD	3.168751	27.26974	.1273215	8.851682	5.388128	.7367533
#1	.1002983	-.007038	3.518211	.0437112	.0417442	40.34807
#2	.1039302	-.006541	3.510823	.0518850	.0375241	40.94008
#3	.0975762	-.010567	3.518898	.0462386	.0403311	40.72468

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.191476	.0056042	.0067689	224.4808	.1489069	.0899676
Stddev	.004471	.0000623	.0001357	.7074	.0007711	.0005848
%RSD	.3752163	1.111209	2.004316	.3151136	.5178751	.6500554
#1	1.187641	.0056645	.0069053	223.9279	.1497968	.0906351
#2	1.196386	.0055401	.0067676	225.2780	.1484900	.0895451
#3	1.190401	.0056082	.0066339	224.2367	.1484340	.0897226

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4142123	138.9004	4.395918	80.55075	.1741677	-.007145
Stddev	.0015060	.9691	.036099	.51277	.0008758	.000061
%RSD	.3635902	.6977240	.8211835	.6365759	.5028293	.8513006
#1	.4140832	137.8840	4.354660	79.96621	.1731687	-.007111
#2	.4157787	139.8141	4.421690	80.92462	.1745314	-.007215
#3	.4127750	139.0031	4.411403	80.76144	.1748030	-.007108

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7267489	.1410460	2.781359	6.654577	F 11.55261	-.273386
Stddev	.0156169	.0060942	.006970	.216141	.01548	.005128
%RSD	2.148879	4.320707	.2505873	3.248002	.1340140	1.875766
#1	.7285850	.1387918	2.773336	6.408568	11.54600	-.279259
#2	.7102951	.1479462	2.784832	6.741161	11.54153	-.271103
#3	.7413667	.1364001	2.785911	6.814003	11.57030	-.269796

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: P5126-01 Acquired: 01/05/2025 20:42:26 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHM98 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0120124	4.664450	8.028091	.2842880	.8568123	.2215914
Stddev	.0009609	.013151	.073073	.0006429	.0090097	.0016048
%RSD	7.999213	.2819304	.9102218	.2261630	1.051537	.7241945
#1	.0112898	4.659521	8.082939	.2849241	.8464787	.2197600
#2	.0116445	4.654476	8.056197	.2836384	.8609365	.2227513
#3	.0131028	4.679353	7.945138	.2843016	.8630216	.2222630

Elem	Li6707
Units	ppm
Avg	.0692810
Stddev	.0021361
%RSD	3.083230
#1	.0669166
#2	.0710716
#3	.0698547

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1885.807	19024.27	1791.868	1384.917	1827.323
Stddev	3.796	147.51	11.209	7.612	2.833
%RSD	.2012680	.7753666	.6255362	.5496200	.1550462
#1	1889.483	19185.23	1786.134	1393.560	1828.409
#2	1886.037	18895.54	1784.686	1379.212	1829.452
#3	1881.903	18992.05	1804.784	1381.979	1824.107

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: P5126-02 Acquired: 01/05/2025 20:46:14 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHM99 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1126400	-.016211	2.904243	.0609961	.0419901	40.82390
Stddev	.0030537	.001672	.009594	.0027872	.0036845	.31631
%RSD	2.711040	10.31226	.3303403	4.569535	8.774591	.7748167
#1	.1149302	-.018112	2.897513	.0586994	.0407583	41.17331
#2	.1091730	-.014971	2.899988	.0640970	.0390794	40.74130
#3	.1138170	-.015549	2.915229	.0601918	.0461327	40.55708

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.156025	.0061351	.0057661	165.1772	.1419746	.0975532
Stddev	.012045	.0001192	.0000347	1.1985	.0013659	.0002607
%RSD	1.041904	1.942978	.6025736	.7255551	.9620617	.2672267
#1	1.166026	.0061855	.0057911	166.3052	.1412340	.0976417
#2	1.159394	.0059990	.0057264	165.3075	.1435509	.0977581
#3	1.142654	.0062210	.0057807	163.9189	.1411390	.0972598

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3854689	154.8589	4.170640	53.30368	.1862162	-.010610
Stddev	.0117557	1.2004	.037835	.51165	.0012174	.000946
%RSD	3.049704	.7751587	.9071778	.9598697	.6537576	8.912091
#1	.3872909	156.1645	4.210923	53.67717	.1851983	-.010237
#2	.3962071	154.6095	4.165143	53.51338	.1858856	-.011686
#3	.3729086	153.8028	4.135854	52.72050	.1875648	-.009909

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7041615	.1825088	2.336503	5.834861	F 10.65749	-.310653
Stddev	.0255658	.0078802	.013936	.251642	.04105	.001943
%RSD	3.630676	4.317709	.5964356	4.312739	.3851851	.6253376
#1	.7285066	.1798529	2.326003	5.946247	10.64153	-.311058
#2	.6775287	.1913738	2.331193	6.011587	10.62681	-.308540
#3	.7064493	.1762996	2.352313	5.546749	10.70412	-.312361

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: P5126-02 Acquired: 01/05/2025 20:46:14 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHM99 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0110922	4.811403	7.826071	.2328358	.9246078	.1822063
Stddev	.0002023	.002737	.068527	.0017339	.0073619	.0022093
%RSD	1.824156	.0568960	.8756287	.7446947	.7962150	1.212532
#1	.0113251	4.814511	7.905024	.2313266	.9329090	.1841809
#2	.0109592	4.810348	7.782026	.2324510	.9220428	.1826179
#3	.0109924	4.809350	7.791164	.2347298	.9188715	.1798202

Elem	Li6707
Units	ppm
Avg	.0771542
Stddev	.0053083
%RSD	6.880119
#1	.0716861
#2	.0822867
#3	.0774899

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1923.635	19247.09	1810.547	1407.701	1874.012
Stddev	.860	6.97	14.246	10.001	3.309
%RSD	.0447137	.0362203	.7868608	.7104714	.1765484
#1	1922.643	19239.96	1794.130	1418.815	1877.790
#2	1924.180	19247.43	1819.669	1404.860	1871.634
#3	1924.080	19253.89	1817.841	1399.427	1872.611

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: P5126-03 Acquired: 01/05/2025 20:50:01 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMA0 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1957995	-.018716	4.306509	.0719168	.0482203	52.95583
Stddev	.0033970	.007634	.002217	.0075640	.0041497	1.72498
%RSD	1.734933	40.78907	.0514860	10.51771	8.605729	3.257386
#1	.1924276	-.012222	4.308921	.0732081	.0522762	54.06074
#2	.1957498	-.016800	4.306048	.0637902	.0484018	50.96813
#3	.1992210	-.027125	4.304558	.0787519	.0439828	53.83862

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.540708	.0077395	.0081006	178.3043	.1762091	.1070068
Stddev	.052343	.0000642	.0001478	5.3704	.0008246	.0007749
%RSD	3.397336	.8288718	1.824614	3.011908	.4679680	.7241571
#1	1.560068	.0077854	.0082319	180.9979	.1762947	.1061967
#2	1.481443	.0077668	.0081294	172.1202	.1769876	.1077409
#3	1.580614	.0076662	.0079405	181.7948	.1753450	.1070828

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5666403	179.0129	6.022239	48.42027	.2075707	-.007849
Stddev	.0173123	5.9596	.186835	1.69581	.0016674	.001752
%RSD	3.055257	3.329137	3.102416	3.502269	.8032997	22.31602
#1	.5726104	182.2694	6.098814	49.30979	.2078670	-.006164
#2	.5471330	172.1346	5.809282	46.46477	.2057750	-.007722
#3	.5801774	182.6347	6.158621	49.48625	.2090701	-.009660

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.004888	.1891473	3.308402	5.934223	F 14.36850	-.364317
Stddev	.030752	.0225385	.001800	.131468	.01419	.007752
%RSD	3.060219	11.91582	.0543935	2.215422	.0987388	2.127686
#1	1.025658	.2074053	3.309736	5.914282	14.36648	-.367270
#2	.969561	.1639570	3.306355	5.813864	14.35543	-.355523
#3	1.019446	.1960798	3.309115	6.074522	14.38359	-.370158

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: P5126-03 Acquired: 01/05/2025 20:50:01 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMA0 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0131430	3.986134	9.764036	.3977135	1.093471	.2637126
Stddev	.0009459	.017001	.248793	.0029549	.036060	.0078872
%RSD	7.197379	.4265084	2.548050	.7429748	3.297770	2.990822
#1	.0121986	3.967494	9.891587	.3995558	1.116427	.2686461
#2	.0131398	3.990121	9.477335	.3943052	1.051908	.2546162
#3	.0140905	4.000788	9.923186	.3992795	1.112077	.2678757

Elem	Li6707
Units	ppm
Avg	.0912348
Stddev	.0039729
%RSD	4.354528
#1	.0911888
#2	.0872852
#3	.0952304

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1986.205	19861.09	1892.416	1458.370	1881.425
Stddev	4.022	80.76	52.955	6.048	1.673
%RSD	.2024897	.4066469	2.798282	.4146895	.0889146
#1	1981.565	19850.99	1867.950	1458.076	1879.847
#2	1988.371	19946.43	1953.180	1464.560	1883.179
#3	1988.680	19785.85	1856.117	1452.475	1881.248

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: P5126-04 Acquired: 01/05/2025 20:53:47 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMA0D Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1851227	-.019966	4.291024	.0773718	.0509089	53.84159
Stddev	.0081204	.003024	.008168	.0071055	.0012645	.26592
%RSD	4.386470	15.14501	.1903431	9.183545	2.483810	.4938877
#1	.1908234	-.016499	4.283792	.0787594	.0514773	53.75076
#2	.1887196	-.022060	4.289397	.0696748	.0517895	54.14102
#3	.1758251	-.021339	4.299882	.0836811	.0494600	53.63299

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.560473	.0078350	.0080933	180.4805	.1767969	.1068920
Stddev	.008290	.0000827	.0001111	1.1660	.0005482	.0002304
%RSD	.5312791	1.055289	1.372101	.6460488	.3100786	.2155237
#1	1.552295	.0078748	.0080093	179.6962	.1773603	.1067268
#2	1.568872	.0078902	.0080515	181.8204	.1762652	.1071551
#3	1.560252	.0077399	.0082192	179.9250	.1767653	.1067940

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5673692	181.4330	6.110677	49.19926	.2088049	-.008035
Stddev	.0060152	.7739	.028691	.36665	.0004673	.000957
%RSD	1.060190	.4265695	.4695159	.7452314	.2238167	11.91672
#1	.5643954	180.9880	6.090025	49.16243	.2086139	-.008336
#2	.5742921	182.3267	6.143437	49.58294	.2084632	-.008806
#3	.5634202	180.9844	6.098568	48.85242	.2093375	-.006963

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.000337	.2046353	3.322898	6.073125	F 14.35562	-.363308
Stddev	.018798	.0146143	.023188	.041689	.02278	.008404
%RSD	1.879217	7.141623	.6978136	.6864569	.1587009	2.313182
#1	.984117	.2143157	3.312250	6.085305	14.35238	-.359323
#2	1.020940	.1878245	3.306947	6.107368	14.33463	-.372963
#3	.995954	.2117657	3.349497	6.026702	14.37985	-.357637

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: P5126-04 Acquired: 01/05/2025 20:53:47 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMA0D Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0124422	3.970972	9.866085	.3969144	1.120636	.2679745
Stddev	.0005332	.011041	.152280	.0007989	.008711	.0016256
%RSD	4.285705	.2780363	1.543470	.2012860	.7773012	.6066245
#1	.0129749	3.983287	9.839059	.3973377	1.128025	.2664749
#2	.0124433	3.961961	10.03007	.3959929	1.122853	.2697020
#3	.0119084	3.967667	9.72913	.3974127	1.111031	.2677466

Elem	Li6707
Units	ppm
Avg	.0922788
Stddev	.0034732
%RSD	3.763843
#1	.0885010
#2	.0930019
#3	.0953337

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1989.232	19849.10	1876.918	1450.579	1884.380
Stddev	3.807	75.24	19.507	11.667	6.375
%RSD	.1913926	.3790661	1.039326	.8042835	.3383257
#1	1990.869	19818.08	1878.248	1454.079	1885.907
#2	1991.946	19934.90	1856.780	1460.095	1889.853
#3	1984.880	19794.33	1895.727	1437.562	1877.379

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: CCV114 Acquired: 01/05/2025 21:05:22 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV114 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.025887	4.869220	24.84085	4.974018	4.935332	402.7613
Stddev	.020531	.059477	.26903	.047971	.061351	1.3313
%RSD	.4085042	1.221479	1.083029	.9644362	1.243092	.3305389
#1	5.018807	4.920892	25.03237	5.002408	4.969467	401.2299
#2	5.009832	4.804205	24.53326	4.918631	4.864505	403.4113
#3	5.049021	4.882562	24.95691	5.001014	4.972023	403.6428

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	10.28685	.5132531	2.500441	410.8777	15.56660	2.517866
Stddev	.07073	.0025092	.028910	1.3871	.40024	.027222
%RSD	.6875642	.4888787	1.156177	.3376063	2.571127	1.081159
#1	10.22209	.5158354	2.520109	409.6997	15.88535	2.535583
#2	10.36232	.5130998	2.467248	412.4066	15.69705	2.486521
#3	10.27613	.5108240	2.513965	410.5270	15.11742	2.531494

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	15.35873	409.0821	15.12102	405.7071	2.520541	1.257643
Stddev	.07606	2.2439	.09480	1.3640	.027749	.025894
%RSD	.4952316	.5485286	.6269167	.3362081	1.100918	2.058914
#1	15.32404	406.9129	15.02157	404.5445	2.544130	1.277207
#2	15.44596	411.3939	15.21035	407.2086	2.489967	1.267443
#3	15.30621	408.9395	15.13114	405.3683	2.527527	1.228280

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	415.7232	2.526949	14.68841	156.8479	5.020650	F 4.448876
Stddev	3.4717	.017718	.38758	.6505	.050121	.005896
%RSD	.8350916	.7011547	2.638694	.4147210	.9982919	.1325197
#1	415.0974	2.510061	14.92887	156.1278	5.049937	4.449224
#2	419.4653	2.525394	14.89507	157.3928	4.962777	4.442813
#3	412.6071	2.545394	14.24130	157.0232	5.049235	4.454589

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: CCV114 Acquired: 01/05/2025 21:05:22 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV114 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.883294	5.036695	5.032757	5.040549	5.054789	4.825063
Stddev	.056217	.050068	.014653	.049276	.021257	.016795
%RSD	1.151208	.9940679	.2911531	.9776013	.4205290	.3480866
#1	4.924728	5.062972	5.039109	5.066203	5.045347	4.807982
#2	4.819302	4.978959	5.043163	4.983738	5.079132	4.841558
#3	4.905854	5.068155	5.016000	5.071705	5.039889	4.825648

Elem	Li6707
Units	ppm
Avg	5.141782
Stddev	.023546
%RSD	.4579430
#1	5.121250
#2	5.167484
#3	5.136613

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1488.634	15946.90	1557.788	1095.170	1598.401
Stddev	15.152	355.32	.669	25.756	16.495
%RSD	1.017841	2.228169	.0429710	2.351810	1.031938
#1	1474.768	15673.13	1558.511	1079.613	1583.044
#2	1504.807	15819.12	1557.661	1080.997	1615.836
#3	1486.325	16348.44	1557.190	1124.900	1596.324

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: CCB114 Acquired: 01/05/2025 21:09:07 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB114 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.003532	.0004339	.0025050	.0015477	.0007267	.0088871
Stddev	.001418	.0036613	.0023953	.0044077	.0010020	.0417258
%RSD	40.13611	843.7818	95.62146	284.7837	137.8739	469.5093
#1	-.004783	.0045625	.0010275	-.001645	.0003348	.0004700
#2	-.001992	-.000843	.0052687	-.000289	-.000020	-.027989
#3	-.003820	-.002418	.0012189	.006577	.001865	.054180

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.005825	.0001125	-.000006	-.015922	.0010361	.0004307
Stddev	.003907	.0001377	.000031	.049804	.0006410	.0003248
%RSD	67.07715	122.4291	554.3038	312.8101	61.86290	75.41368
#1	-.007558	.0000707	.000016	-.009016	.0003059	.0000594
#2	-.008566	.0000005	-.000041	-.068818	.0015060	.0006621
#3	-.001351	.0002662	.000009	.030070	.0012965	.0005707

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.008514	.0073572	.0013320	.0131505	-.000502	.0002797
Stddev	.003525	.0201188	.0021564	.1019998	.000557	.0011287
%RSD	41.39470	273.4578	161.8877	775.6363	110.9840	403.5131
#1	-.005070	.0270675	-.000602	-.080866	-.000278	.0005204
#2	-.012114	.0081507	.000941	-.001280	-.001136	-.000950
#3	-.008359	-.013147	.003657	.121597	-.000092	.001269

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2056901	.0035042	.0051065	.4405045	-.001284	.0150946
Stddev	.0251712	.0172731	.0006798	.2021908	.001463	.0023186
%RSD	12.23742	492.9301	13.31151	45.89983	113.8953	15.36037
#1	.2321117	.0204266	.0058544	.5990947	-.002898	.0175014
#2	.2029679	-.014099	.0049387	.5095941	-.000910	.0128757
#3	.1819907	.004185	.0045264	.2128248	-.000045	.0149066

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: CCB114 Acquired: 01/05/2025 21:09:07 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB114 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000745	.0046732	.0008177	-.000754	-.006360	-.000021
Stddev	.000604	.0030226	.0004120	.000990	.004996	.000169
%RSD	81.06569	64.67929	50.38629	131.3467	78.54270	791.9847
#1	-.000057	.0059260	.0012647	-.001620	-.006866	-.000216
#2	-.001190	.0068679	.0007351	-.000966	-.001131	.000056
#3	-.000988	.0012256	.0004532	.000325	-.011084	.000095

Elem	Li6707
Units	ppm
Avg	F .0150210
Stddev	.0031569
%RSD	21.01636
#1	.0141408
#2	.0185245
#3	.0123976

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1775.540	17711.86	1650.089	1302.703	1988.583
Stddev	4.332	146.41	2.256	7.451	5.355
%RSD	.2439637	.8266154	.1367490	.5719394	.2692886
#1	1776.720	17571.23	1648.214	1303.023	1987.657
#2	1779.159	17700.90	1652.593	1295.098	1994.341
#3	1770.741	17863.43	1649.458	1309.989	1983.752

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: P5126-03LX5 Acquired: 01/05/2025 21:13:08 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMA0L Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0321028	.0001300	.8588086	.0163909	.0108624	11.75409	.3351026
Stddev	.0025467	.0003934	.0028798	.0069158	.0012740	.11046	.0020141
%RSD	7.933047	302.5781	.3353221	42.19315	11.72890	.9397155	.6010415
#1	.0349910	-.000038	.8580274	.0161187	.0115402	11.66760	.3372913
#2	.0311378	.000580	.8619984	.0234388	.0116543	11.71617	.3346893
#3	.0301796	-.000151	.8564000	.0096151	.0093928	11.87851	.3333272

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0017723	.0016147	39.58803	.0389493	.0329881	.1173736	39.74847
Stddev	.0001202	.0000920	.20238	.0010838	.0005050	.0065466	.36551
%RSD	6.781068	5.699713	.5112253	2.782640	1.530929	5.577545	.9195558
#1	.0017154	.0016434	39.55903	.0401268	.0330384	.1217807	39.51637
#2	.0019104	.0015117	39.40171	.0379934	.0334660	.1098511	39.55925
#3	.0016912	.0016889	39.80335	.0387276	.0324598	.1204889	40.16980

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.345597	10.96348	.0385548	-.002264	.2954889	.0336627	.7365591
Stddev	.006590	.16651	.0008277	.001193	.0157685	.0081621	.0026112
%RSD	.4897670	1.518779	2.146830	52.69626	5.336404	24.24666	.3545064
#1	1.340729	10.92807	.0390427	-.000925	.2941511	.0276603	.7379809
#2	1.342965	10.81752	.0375991	-.003215	.2804319	.0303712	.7381507
#3	1.353096	11.14485	.0390225	-.002652	.3118836	.0429566	.7335456

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.313229	2.818293	-.072566	.0051198	.7787642	2.131859	.0778322
Stddev	.033640	.009942	.003056	.0008581	.0025102	.007206	.0007745
%RSD	2.561609	.3527682	4.210803	16.76090	.3223307	.3380133	.9951425
#1	1.276887	2.828922	-.069824	.0056211	.7781641	2.135326	.0778994
#2	1.319523	2.809222	-.072015	.0041290	.7815201	2.123575	.0785709
#3	1.343277	2.816736	-.075860	.0056094	.7766085	2.136677	.0770262

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: P5126-03LX5 Acquired: 01/05/2025 21:13:08 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMA0L Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.2358025	.0585915	.0252214
Stddev	.0027759	.0005933	.0019013
%RSD	1.177216	1.012600	7.538462
#1	.2347095	.0580520	.0249342
#2	.2389585	.0584954	.0272500
#3	.2337394	.0592269	.0234801

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1828.971	18243.10	1705.362	1335.568	1951.157
Stddev	6.326	41.24	5.967	5.645	7.220
%RSD	.3458987	.2260756	.3498857	.4226831	.3700233
#1	1826.540	18214.96	1704.654	1334.753	1946.384
#2	1824.220	18223.90	1711.651	1330.375	1947.623
#3	1836.152	18290.44	1699.781	1341.577	1959.462

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: P5126-05 Acquired: 01/05/2025 21:17:02 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMA0S Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2671989	.0570167	4.287206	.2240629	.2069475	55.89507
Stddev	.0042828	.0053809	.004898	.0056061	.0017369	.54683
%RSD	1.602846	9.437377	.1142442	2.502019	.8392971	.9783182
#1	.2670157	.0611151	4.284645	.2188554	.2051027	55.30609
#2	.2715704	.0590118	4.292854	.2233364	.2071883	55.99245
#3	.2630107	.0509232	4.284120	.2299968	.2085514	56.38667

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.015520	.0947941	.1010316	177.7197	.5423132	1.053201
Stddev	.018925	.0005585	.0001480	.9790	.0010897	.001282
%RSD	.3773340	.5891437	.1465153	.5508623	.2009375	.1217584
#1	5.003745	.0945027	.1011254	176.7341	.5434912	1.053861
#2	5.005464	.0954379	.1011085	177.7331	.5421071	1.054018
#3	5.037350	.0944415	.1008610	178.6920	.5413413	1.051723

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9806795	180.1940	6.889234	48.68380	1.171866	.0543640
Stddev	.0088982	1.4935	.038861	.35534	.000697	.0012605
%RSD	.9073472	.8288096	.5640832	.7298853	.0594483	2.318579
#1	.9802485	178.5432	6.851127	48.35431	1.172664	.0532818
#2	.9897853	180.5874	6.887768	48.63678	1.171378	.0557480
#3	.9720046	181.4514	6.928807	49.06030	1.171557	.0540621

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.021754	1.070783	4.044890	5.836373	F 14.18971	-.355738
Stddev	.023361	.006111	.012219	.116201	.01413	.003997
%RSD	2.286398	.5706834	.3020795	1.990983	.0996041	1.123715
#1	1.048511	1.064739	4.056202	5.766138	14.19172	-.357438
#2	1.005409	1.076959	4.046536	5.970501	14.20272	-.358603
#3	1.011343	1.070649	4.031932	5.772480	14.17467	-.351171

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: P5126-05 Acquired: 01/05/2025 21:17:02 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMA0S Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0134977	3.933711	9.440211	.3922743	1.064621	.2608858
Stddev	.0006247	.005232	.045263	.0021837	.011364	.0026407
%RSD	4.627884	.1330055	.4794658	.5566716	1.067450	1.012215
#1	.0135027	3.929248	9.426277	.3922549	1.053903	.2580666
#2	.0128706	3.932417	9.490802	.3901004	1.063422	.2612892
#3	.0141199	3.939469	9.403553	.3944676	1.076537	.2633016

Elem	Li6707
Units	ppm
Avg	.0948516
Stddev	.0052503
%RSD	5.535284
#1	.0992451
#2	.0890370
#3	.0962726

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1987.444	19953.45	1891.044	1458.934	1886.547
Stddev	7.696	75.21	5.949	3.465	4.091
%RSD	.3872307	.3769426	.3146061	.2375231	.2168468
#1	1986.646	19995.60	1897.838	1460.758	1886.346
#2	1995.508	19998.13	1886.766	1461.107	1890.735
#3	1980.178	19866.61	1888.527	1454.938	1882.560

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: P5126-16 Acquired: 01/05/2025 21:20:47 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMM9 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2002917	-.019760	2.572258	.1107464	.0467966	70.83065
Stddev	.0049488	.002615	.006375	.0051521	.0019731	.26644
%RSD	2.470784	13.23534	.2478525	4.652162	4.216326	.3761656
#1	.1991306	-.018451	2.578142	.1056922	.0485908	71.13828
#2	.2057178	-.018057	2.573149	.1159911	.0446835	70.67317
#3	.1960267	-.022771	2.565485	.1105559	.0471154	70.68051

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.512132	.0076536	.0078007	235.5152	.1534611	.1557735
Stddev	.005501	.0000940	.0000587	.7847	.0006857	.0004817
%RSD	.3638034	1.228689	.7524758	.3331967	.4468284	.3092334
#1	1.513175	.0076721	.0078608	236.4074	.1541476	.1563006
#2	1.517037	.0077370	.0077435	235.2060	.1527762	.1553561
#3	1.506184	.0075517	.0077977	234.9322	.1534595	.1556640

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5322415	232.4399	20.21855	32.90153	.1947583	-.013007
Stddev	.0021048	.2222	.01129	.12170	.0002808	.000752
%RSD	.3954668	.0955918	.0558341	.3698800	.1441653	5.784623
#1	.5324716	232.3160	20.21440	33.04204	.1944341	-.012384
#2	.5300310	232.6964	20.23132	32.83251	.1949191	-.012795
#3	.5342218	232.3072	20.20992	32.83003	.1949216	-.013843

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7585484	.1874655	1.524290	9.756200	F 12.83238	-.478970
Stddev	.0381753	.0108672	.000438	.125477	.01778	.004296
%RSD	5.032684	5.796919	.0287049	1.286123	.1385283	.8968691
#1	.7566945	.1993715	1.524009	9.860154	12.84967	-.483860
#2	.7213338	.1780799	1.524794	9.791628	12.83334	-.475804
#3	.7976169	.1849453	1.524066	9.616818	12.81415	-.477246

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: P5126-16 Acquired: 01/05/2025 21:20:47 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMM9 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0133781	3.636754	7.472050	.1732643	.8875737	.1841857
Stddev	.0003885	.010191	.050350	.0026206	.0015998	.0007445
%RSD	2.904129	.2802158	.6738460	1.512495	.1802412	.4042115
#1	.0129495	3.628706	7.515313	.1724655	.8890543	.1839788
#2	.0134777	3.648212	7.416783	.1711361	.8877901	.1850118
#3	.0137071	3.633343	7.484056	.1761914	.8858768	.1835665

Elem	Li6707
Units	ppm
Avg	.0926066
Stddev	.0028033
%RSD	3.027113
#1	.0909323
#2	.0958429
#3	.0910447

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2212.387	22059.43	2113.919	1610.595	1861.194
Stddev	1.213	84.54	19.239	7.122	1.483
%RSD	.0548106	.3832369	.9100944	.4421952	.0797029
#1	2211.119	21970.98	2093.085	1602.613	1860.604
#2	2212.508	22067.89	2131.013	1612.871	1862.881
#3	2213.536	22139.42	2117.659	1616.300	1860.096

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: PB165860BL Acquired: 01/05/2025 21:24:35 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: PBS860 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000407	-.001705	.0016248	.0037334	-.002405	.0130793	-.006165
Stddev	.001199	.002580	.0033470	.0001889	.003519	.0290982	.003449
%RSD	294.4054	151.3586	205.9980	5.059244	146.3388	222.4763	55.94306
#1	.000923	.001264	.0054881	.0037468	-.001925	-.004092	-.006295
#2	-.001407	-.003407	-.000398	.0035382	-.006140	.046676	-.009546
#3	-.000738	-.002972	-.000216	.0039152	.000850	-.003347	-.002652

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000777	.0000342	.0643931	.0000676	.0004932	-.014400	.0443742
Stddev	.0001616	.0000223	.0379835	.0011292	.0002770	.004150	.0370663
%RSD	207.9064	65.32040	58.98691	1671.274	56.17446	28.82035	83.53130
#1	.0000877	.0000595	.0258792	-.000381	.0002964	-.009737	.0729606
#2	-.000089	.0000173	.0654772	.001352	.0008100	-.015774	.0576675
#3	.000234	.0000257	.1018230	-.000768	.0003731	-.017688	.0024943

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0022279	-.030558	.0000065	.0008786	.0334355	.0064183	.0049731
Stddev	.0009972	.111869	.0002163	.0011852	.0085389	.0058241	.0009664
%RSD	44.75841	366.0851	3312.140	134.8975	25.53848	90.74254	19.43179
#1	.0019586	-.066707	.0001075	-.000031	.0429940	.0123837	.0057336
#2	.0013930	.094915	-.000242	.000447	.0265611	.0007466	.0053001
#3	.0033321	-.119883	.000154	.002219	.0307515	.0061245	.0038857

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.103750	-.001529	.0023539	-.001039	-.001106	.0008685	-.001032
Stddev	.098416	.004676	.0009823	.000346	.004231	.0013200	.000227
%RSD	94.85827	305.8707	41.72966	33.29210	382.4086	151.9770	22.03342
#1	-.141440	-.004589	.0015473	-.000913	.002809	.0023785	-.001294
#2	.007940	-.003850	.0020665	-.001431	-.005594	-.000066	-.000911
#3	-.177751	.003853	.0034478	-.000774	-.000534	.000293	-.000891

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: PB165860BL Acquired: 01/05/2025 21:24:35 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: PBS860 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	-.003471	.0000836	.0057376
Stddev	.005882	.0001266	.0025668
%RSD	169.4575	151.3534	44.73638
#1	.002281	.0001825	.0044082
#2	-.009474	-.000059	.0041082
#3	-.003220	.000127	.0086964

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1798.725	17938.66	1654.545	1318.116	2013.473
Stddev	25.588	214.82	4.827	14.014	30.615
%RSD	1.422577	1.197544	.2917315	1.063151	1.520531
#1	1806.796	18186.59	1652.771	1333.433	2026.505
#2	1819.304	17807.86	1660.007	1314.978	2035.417
#3	1770.074	17821.53	1650.856	1305.938	1978.498

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: PB165860BS Acquired: 01/05/2025 21:28:36 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: LCS860 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0229350	.0464780	.0207753	.0694003	.1047495	.3854518
Stddev	.0033112	.0034693	.0013782	.0047982	.0010719	.0527671
%RSD	14.43739	7.464346	6.633976	6.913793	1.023260	13.68967
#1	.0249422	.0460537	.0193292	.0679897	.1059615	.3646867
#2	.0247497	.0501400	.0220737	.0654656	.1039263	.4454426
#3	.0191132	.0432404	.0209231	.0747457	.1043606	.3462262

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3901129	.0102548	.0095021	9.944437	.0200507	.0978974
Stddev	.0005886	.0001130	.0000457	.035541	.0008028	.0007586
%RSD	.1508794	1.101755	.4808731	.3573957	4.003840	.7748726
#1	.3895708	.0103804	.0094841	9.903841	.0199855	.0986332
#2	.3900289	.0102225	.0095541	9.969945	.0192825	.0979411
#3	.3907389	.0101614	.0094682	9.959524	.0208841	.0971179

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0368542	.2321984	.0312334	10.20162	.0763596	.0194919
Stddev	.0124343	.0216806	.0019242	.11591	.0006377	.0012273
%RSD	33.73904	9.337106	6.160631	1.136143	.8350634	6.296252
#1	.0440485	.2226818	.0295436	10.11671	.0768655	.0182849
#2	.0440178	.2570097	.0308289	10.15449	.0765699	.0194524
#3	.0224964	.2169036	.0333276	10.33367	.0756433	.0207385

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.657237	.0933198	.1170796	9.423630	.0203320	F .0027584
Stddev	.065915	.0063990	.0010430	.125426	.0052033	.0015470
%RSD	.8608257	6.857114	.8908512	1.330977	25.59187	56.08165
#1	7.724089	.0964544	.1158834	9.560325	.0246087	.0009725
#2	7.655322	.0975472	.1175565	9.396730	.0145389	.0036205
#3	7.592300	.0859578	.1177988	9.313837	.0218485	.0036823

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: PB165860BS Acquired: 01/05/2025 21:28:36 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: LCS860 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0189887	.1761243	F .4748599	.0104363	.1834529	.2044077
Stddev	.0003483	.0038085	.0021585	.0009060	.0031297	.0009305
%RSD	1.834420	2.162392	.4545556	8.680948	1.706015	.4552347
#1	.0191844	.1777803	.4765048	.0111621	.1800190	.2037047
#2	.0185866	.1788245	.4756591	.0107259	.1861452	.2040554
#3	.0191953	.1717682	.4724158	.0094210	.1841946	.2054629

Elem	Li6707
Units	ppm
Avg	.0341241
Stddev	.0023649
%RSD	6.930351
#1	.0336263
#2	.0366982
#3	.0320476

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1773.113	17529.08	1653.232	1283.937	1974.907
Stddev	2.100	14.75	10.671	6.420	2.919
%RSD	.1184225	.0841525	.6454727	.5000593	.1478126
#1	1771.601	17545.14	1641.724	1291.051	1974.699
#2	1775.510	17516.14	1655.173	1282.186	1977.924
#3	1772.227	17525.95	1662.800	1278.574	1972.097

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: P5127-04 Acquired: 01/05/2025 21:32:34 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMB1 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0577844	.0145040	.3667111	.0003200	.0162891	37.50039
Stddev	.0079834	.0063452	.0028669	.0086255	.0025516	.16589
%RSD	13.81586	43.74791	.7817821	2695.860	15.66428	.4423642
#1	.0518047	.0211552	.3642495	-.005962	.0192209	37.30953
#2	.0546984	.0138398	.3660251	-.003233	.0145704	37.58173
#3	.0668502	.0085171	.3698588	.010154	.0150760	37.60991

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3649943	.0048970	.0028178	F 1757.221	.0569033	.1182126
Stddev	.0026318	.0001071	.0000342	3.833	.0005196	.0004579
%RSD	.7210418	2.187129	1.212930	.2181468	.9131357	.3873857
#1	.3630692	.0047849	.0028385	1755.966	.0572759	.1177474
#2	.3679932	.0049079	.0027784	1754.172	.0571242	.1182275
#3	.3639206	.0049983	.0028365	1761.524	.0563097	.1186630

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1766926	116.5183	7.019045	187.4296	.1358454	-.007319
Stddev	.0083856	.3968	.034737	.5297	.0006449	.000985
%RSD	4.745861	.3405516	.4948947	.2826081	.4746999	13.45187
#1	.1672035	116.2608	6.990528	187.1181	.1365010	-.006722
#2	.1797678	116.3188	7.008875	187.1295	.1358235	-.006780
#3	.1831064	116.9752	7.057732	188.0412	.1352119	-.008455

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.588546	.0643603	.5996261	14.17311	3.393193	-.144078
Stddev	.007387	.0057757	.0035942	.12739	.004417	.002085
%RSD	.4650166	8.973999	.5994038	.8988109	.1301641	1.447187
#1	1.596584	.0681603	.6036437	14.18380	3.388774	-.143762
#2	1.582054	.0577139	.5985186	14.04071	3.397607	-.146303
#3	1.587002	.0672068	.5967160	14.29481	3.393198	-.142169

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: P5127-04 Acquired: 01/05/2025 21:32:34 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMB1 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000830	2.749905	8.301037	.0304543	.0643679	1.606378
Stddev	.001124	.006915	.060297	.0037457	.0041458	.003223
%RSD	135.4185	.2514468	.7263740	12.29956	6.440801	.2006231
#1	-.001730	2.754325	8.363055	.0332977	.0688293	1.603257
#2	-.001190	2.741936	8.297430	.0262100	.0606340	1.606183
#3	.000430	2.753452	8.242624	.0318551	.0636403	1.609694

Elem	Li6707
Units	ppm
Avg	.1230873
Stddev	.0019460
%RSD	1.581018
#1	.1245370
#2	.1208756
#3	.1238493

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1813.320	18195.40	1792.380	1325.129	1565.931
Stddev	4.263	15.76	11.791	4.990	2.142
%RSD	.2350698	.0866047	.6578619	.3765379	.1367642
#1	1816.188	18206.98	1779.009	1320.098	1568.092
#2	1808.422	18201.76	1796.840	1330.076	1563.809
#3	1815.351	18177.45	1801.290	1325.214	1565.893

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: P5127-05 Acquired: 01/05/2025 21:36:23 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMB1D Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0564768	.0118960	.3666830	-.003063	.0119230	37.67968
Stddev	.0036579	.0071136	.0049289	.006118	.0023639	.12433
%RSD	6.476818	59.79875	1.344181	199.7024	19.82656	.3299590
#1	.0554255	.0053333	.3638106	-.006572	.0146072	37.57961
#2	.0605453	.0108992	.3723743	-.006619	.0101514	37.81886
#3	.0534597	.0194555	.3638641	.004001	.0110105	37.64057

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3640737	.0048299	.0027781	F 1750.787	.0567778	.1192688
Stddev	.0022883	.0000721	.0000243	9.989	.0004262	.0001769
%RSD	.6285221	1.492518	.8764108	.5705181	.7506673	.1483192
#1	.3615977	.0049039	.0027980	1752.200	.0569942	.1192783
#2	.3661107	.0048256	.0027853	1759.994	.0570524	.1194407
#3	.3645128	.0047600	.0027510	1740.167	.0562868	.1190873

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1865330	117.3483	7.037525	188.0366	.1371366	-.007469
Stddev	.0048084	.6539	.032239	.7848	.0019351	.000706
%RSD	2.577763	.5572557	.4581033	.4173697	1.411079	9.449110
#1	.1868897	116.6884	7.000480	187.1778	.1364202	-.007667
#2	.1815562	117.3603	7.059231	188.7166	.1356619	-.006686
#3	.1911531	117.9961	7.052862	188.2155	.1393278	-.008055

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.586923	.0679653	.6026721	14.31510	3.386499	-.142422
Stddev	.008336	.0047538	.0031142	.11109	.002155	.003104
%RSD	.5253045	6.994435	.5167383	.7760497	.0636432	2.179720
#1	1.587692	.0734284	.6048132	14.44078	3.384011	-.142890
#2	1.578228	.0656967	.5990995	14.27447	3.387716	-.145266
#3	1.594847	.0647708	.6041038	14.23003	3.387771	-.139111

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: P5127-05 Acquired: 01/05/2025 21:36:23 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMB1D Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000664	2.744208	8.361487	.0359055	.0773595	1.609506
Stddev	.000596	.007306	.021205	.0018107	.0073214	.006338
%RSD	89.84210	.2662159	.2536077	5.042978	9.464151	.3937840
#1	-.000157	2.745317	8.381068	.0375965	.0706539	1.602383
#2	-.001321	2.736411	8.364429	.0339951	.0851710	1.614521
#3	-.000513	2.750895	8.338965	.0361249	.0762537	1.611615

Elem	Li6707
Units	ppm
Avg	.1281165
Stddev	.0041641
%RSD	3.250263
#1	.1278628
#2	.1324016
#3	.1240850

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1812.841	18166.01	1797.555	1320.772	1565.073
Stddev	7.336	57.72	4.307	5.256	2.850
%RSD	.4046573	.3177374	.2396225	.3979557	.1821144
#1	1813.285	18222.22	1794.653	1317.891	1565.653
#2	1819.944	18106.89	1795.507	1326.838	1567.588
#3	1805.293	18168.93	1802.504	1317.586	1561.977

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: P5127-04LX5 Acquired: 01/05/2025 21:40:17 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMB1L Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0024284	.0286146	.0804637	-.027196	.0010359	8.138148	.0757071
Stddev	.0050452	.0036315	.0021377	.005447	.0010610	.056325	.0036907
%RSD	207.7616	12.69111	2.656669	20.02845	102.4242	.6921161	4.875018
#1	.0018374	.0299294	.0809626	-.033094	.0008067	8.073127	.0729025
#2	.0077431	.0314057	.0781208	-.026140	.0021928	8.169316	.0798883
#3	-.002295	.0245089	.0823078	-.022355	.0001082	8.172000	.0743305

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0014389	.0004774	391.5655	.0133341	.0503048	.0326533	26.37501
Stddev	.0000993	.0000993	2.3471	.0002638	.0003761	.0113144	.17423
%RSD	6.899867	20.79237	.5994142	1.978084	.7476656	34.65016	.6605822
#1	.0014565	.0004031	389.8365	.0133062	.0505000	.0411181	26.17383
#2	.0015283	.0005901	390.6226	.0136107	.0498712	.0198025	26.47617
#3	.0013321	.0004389	394.2374	.0130854	.0505432	.0370393	26.47503

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.591213	42.76066	.0250248	-.001633	.3805433	.0050323	.1351439
Stddev	.008780	.30951	.0009226	.002159	.0239435	.0156031	.0018308
%RSD	.5517633	.7238203	3.686884	132.2538	6.291929	310.0579	1.354694
#1	1.581076	42.48679	.0249794	.000394	.3550743	.0029943	.1372440
#2	1.596228	42.69875	.0241257	-.001388	.3839617	.0215543	.1343035
#3	1.596337	43.09645	.0259693	-.003904	.4025939	-.009452	.1338841

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.920666	.6301714	-.031947	.0048347	.5082253	1.871299	.0083595
Stddev	.205834	.0022649	.001014	.0010091	.0027260	.008032	.0008570
%RSD	7.047497	.3594121	3.173890	20.87193	.5363773	.4292073	10.25196
#1	2.774760	.6317926	-.032529	.0058521	.5099065	1.879046	.0078278
#2	2.831134	.6275835	-.032537	.0048179	.5096894	1.863010	.0079025
#3	3.156103	.6311380	-.030777	.0038341	.5050801	1.871840	.0093481

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: P5127-04LX5 Acquired: 01/05/2025 21:40:17 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMB1L Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.0109412	.3521507	.0296375
Stddev	.0015619	.0022919	.0026120
%RSD	14.27576	.6508326	8.813326
#1	.0098502	.3495654	.0322115
#2	.0102429	.3529534	.0297120
#3	.0127304	.3539333	.0269890

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1740.691	17395.48	1653.405	1273.345	1780.186
Stddev	4.224	41.66	4.122	5.684	3.169
%RSD	.2426791	.2395073	.2492928	.4463980	.1779965
#1	1736.069	17435.24	1652.480	1271.196	1778.275
#2	1744.351	17352.14	1657.910	1269.049	1783.844
#3	1741.654	17399.05	1649.823	1279.790	1778.440

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: P5127-06 Acquired: 01/05/2025 21:44:13 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMB1S Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1280657	.0917203	.3999255	.1499808	.1689778	40.44561
Stddev	.0009728	.0005891	.0038064	.0046120	.0029953	.39731
%RSD	.7595970	.6422809	.9517848	3.075030	1.772584	.9823365
#1	.1290693	.0920843	.4023450	.1511983	.1669499	40.16463
#2	.1280010	.0910407	.3955379	.1448822	.1675652	40.27201
#3	.1271269	.0920360	.4018935	.1538618	.1724181	40.90017

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.788232	.0915826	.0993632	F 1740.106	.4137796	1.088855
Stddev	.019904	.0002605	.0003146	9.732	.0001203	.004606
%RSD	.5254065	.2844249	.3166328	.5592639	.0290710	.4229986
#1	3.771168	.0914583	.0996710	1734.031	.4137678	1.092894
#2	3.783430	.0914077	.0990422	1734.956	.4136656	1.083839
#3	3.810097	.0918820	.0993765	1751.330	.4139053	1.089832

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5813942	117.9157	7.803823	186.6904	1.115841	.0559200
Stddev	.0043308	.4812	.054918	1.3280	.003377	.0004770
%RSD	.7448917	.4081026	.7037360	.7113257	.3026313	.8529889
#1	.5785880	117.5658	7.763316	185.8028	1.119208	.0563994
#2	.5792126	117.7169	7.781823	186.0513	1.112454	.0554454
#3	.5863819	118.4645	7.866331	188.2171	1.115862	.0559151

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.552100	.9369503	1.392844	13.96416	3.338923	-.141868
Stddev	.025251	.0169112	.004384	.04120	.011938	.003671
%RSD	1.626899	1.804921	.3147236	.2950379	.3575537	2.587693
#1	1.537808	.9225262	1.396098	14.00910	3.352303	-.145066
#2	1.537237	.9327630	1.387859	13.95521	3.329359	-.142677
#3	1.581256	.9555619	1.394575	13.92817	3.335108	-.137859

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: P5127-06 Acquired: 01/05/2025 21:44:13 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMB1S Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000337	2.712578	8.194624	.0353494	.0673246	1.594160
Stddev	.000665	.006146	.015870	.0014956	.0019357	.012213
%RSD	197.4352	.2265780	.1936652	4.230759	2.875117	.7661341
#1	.000430	2.717370	8.199953	.0338828	.0673045	1.585977
#2	-.000688	2.705649	8.176776	.0368723	.0653991	1.588304
#3	-.000752	2.714715	8.207144	.0352929	.0692703	1.608199

Elem	Li6707
Units	ppm
Avg	.1285716
Stddev	.0025394
%RSD	1.975118
#1	.1266957
#2	.1314613
#3	.1275577

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1802.210	18217.49	1799.035	1317.115	1562.314
Stddev	4.985	27.58	6.886	6.305	1.697
%RSD	.2765815	.1513686	.3827398	.4787089	.1086225
#1	1807.928	18185.81	1792.177	1309.984	1561.967
#2	1798.784	18236.03	1805.948	1321.952	1564.158
#3	1799.917	18230.65	1798.981	1319.408	1560.818

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: P5127-03DLX2 Acquired: 01/05/2025 21:48:01 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMB0 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0316888	.0167697	.5334495	.0161109	.0149191	28.38844	.4887613
Stddev	.0061011	.0075808	.0052980	.0038243	.0021340	.16399	.0019842
%RSD	19.25306	45.20552	.9931547	23.73702	14.30366	.5776482	.4059636
#1	.0381244	.0080168	.5343335	.0124726	.0139557	28.21412	.4877162
#2	.0309527	.0212416	.5277652	.0200973	.0134367	28.53963	.4910497
#3	.0259891	.0210507	.5382499	.0157630	.0173649	28.41157	.4875182

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0031485	.0018022	439.4316	.0479427	.0809304	.0773435	90.04254
Stddev	.0000491	.0001273	2.3360	.0007024	.0006678	.0009032	.67802
%RSD	1.558162	7.062843	.5316008	1.465084	.8251476	1.167754	.7529971
#1	.0032051	.0017718	436.8737	.0486534	.0803359	.0773274	89.30699
#2	.0031186	.0016929	439.9692	.0479257	.0808025	.0764484	90.64256
#3	.0031217	.0019420	441.4520	.0472489	.0816530	.0782546	90.17807

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	8.326756	67.62397	.0802268	-.005707	.6297911	.0671917	.4181691
Stddev	.054528	.47693	.0004188	.001229	.0260801	.0085864	.0021568
%RSD	.6548506	.7052653	.5219681	21.53102	4.141074	12.77898	.5157700
#1	8.270111	67.09058	.0797668	-.004295	.6097078	.0579673	.4206544
#2	8.378886	68.00932	.0803276	-.006532	.6203990	.0686559	.4167878
#3	8.331270	67.77202	.0805859	-.006295	.6592664	.0749518	.4170652

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.355922	2.676541	-.161903	.0069283	1.279588	4.503725	.0308462
Stddev	.201501	.000831	.005441	.0004915	.006223	.010571	.0020771
%RSD	3.762208	.0310444	3.360475	7.094740	.4863393	.2347264	6.733829
#1	5.194985	2.676771	-.164452	.0068365	1.286492	4.495837	.0331360
#2	5.290867	2.677234	-.155656	.0074592	1.274410	4.499601	.0303196
#3	5.581914	2.675620	-.165601	.0064891	1.277862	4.515737	.0290831

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: P5127-03DLX2 Acquired: 01/05/2025 21:48:01 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMB0 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.1943072	.3107822	.0722595
Stddev	.0067717	.0024157	.0027811
%RSD	3.485060	.7772907	3.848786
#1	.1920438	.3081041	.0739713
#2	.1889572	.3127968	.0690505
#3	.2019208	.3114458	.0737566

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1827.961	18246.61	1757.048	1333.151	1751.041
Stddev	3.481	29.39	5.045	5.762	7.370
%RSD	.1904457	.1610543	.2871113	.4321858	.4208859
#1	1831.429	18219.28	1762.862	1333.450	1757.325
#2	1827.986	18242.86	1753.830	1327.246	1752.869
#3	1824.467	18277.69	1754.453	1338.757	1742.929

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: P5131-10DLX2 Acquired: 01/05/2025 21:51:51 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMM7 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0889610	-.000062	.6876116	.0628619	.0235174	39.01522	.8185956
Stddev	.0053874	.000411	.0029159	.0071027	.0004656	.17191	.0037331
%RSD	6.055860	660.8737	.4240635	11.29884	1.979769	.4406290	.4560368
#1	.0857970	-.000509	.6898640	.0633266	.0233289	38.98383	.8150781
#2	.0951814	.000300	.6886528	.0697208	.0231756	38.86117	.8181966
#3	.0859045	.000023	.6843180	.0555383	.0240477	39.20067	.8225122

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0035156	.0054277	77.95675	.0784368	.0892222	.2866920	116.4445
Stddev	.0001854	.0000639	.26046	.0003383	.0002921	.0017424	.8232
%RSD	5.274647	1.177255	.3341039	.4312381	.3273279	.6077569	.7069750
#1	.0033789	.0053953	77.66150	.0785015	.0895414	.2850393	115.5827
#2	.0037267	.0053865	78.05480	.0787381	.0889683	.2885120	116.5281
#3	.0034412	.0055013	78.15395	.0780709	.0891570	.2865246	117.2228

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	16.87053	12.15721	.1095833	-.004225	.9460864	.0915011	1.235102
Stddev	.10299	.10066	.0006558	.001376	.0243574	.0096112	.006374
%RSD	.6105008	.8280215	.5984272	32.56258	2.574541	10.50392	.5160521
#1	16.75960	12.05254	.1103393	-.004345	.9472690	.0807619	1.242215
#2	16.88885	12.16577	.1091680	-.005536	.9698309	.0992950	1.233183
#3	16.96313	12.25332	.1092426	-.002793	.9211592	.0944464	1.229908

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.331911	5.079420	-.259558	.0151364	.8675821	6.464588	.0400627
Stddev	.048897	.005077	.001609	.0004291	.0086789	.022691	.0025573
%RSD	1.467531	.0999432	.6198307	2.835114	1.000349	.3510064	6.383347
#1	3.321832	5.081405	-.260325	.0148251	.8617983	6.453042	.0404216
#2	3.288839	5.073650	-.260639	.0156260	.8775615	6.490730	.0424217
#3	3.385062	5.083203	-.257709	.0149582	.8633865	6.449991	.0373449

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: P5131-10DLX2 Acquired: 01/05/2025 21:51:51 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMM7 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.3821167	.0181004	.0486788
Stddev	.0041874	.0005765	.0008496
%RSD	1.095837	3.185174	1.745227
#1	.3869440	.0187310	.0492414
#2	.3799418	.0179699	.0490936
#3	.3794643	.0176004	.0477016

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1968.223	19791.42	1854.343	1459.116	1911.950
Stddev	4.807	16.33	4.541	4.661	2.648
%RSD	.2442496	.0825029	.2448651	.3194515	.1384806
#1	1967.998	19809.72	1856.528	1453.802	1914.257
#2	1973.138	19786.22	1849.123	1462.510	1912.534
#3	1963.532	19778.33	1857.378	1461.037	1909.059

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: CCV115 Acquired: 01/05/2025 21:55:40 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV115 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.058314	4.943648	25.27700	5.051425	5.022053	400.6280
Stddev	.014950	.044919	.27094	.035508	.057047	2.3983
%RSD	.2955530	.9086286	1.071885	.7029384	1.135922	.5986325
#1	5.049060	4.891921	24.96487	5.012224	4.957426	397.9376
#2	5.050320	4.972827	25.41473	5.081434	5.065401	402.5417
#3	5.075561	4.966197	25.45141	5.060616	5.043334	401.4048

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	10.22025	.5114868	2.543315	407.7110	15.69504	2.557293
Stddev	.04942	.0030373	.027298	1.5287	.01690	.026677
%RSD	.4835587	.5938203	1.073336	.3749585	.1076527	1.043172
#1	10.16338	.5149098	2.511843	405.9654	15.69639	2.526512
#2	10.24464	.5104371	2.557528	408.8109	15.71123	2.571653
#3	10.25273	.5091136	2.560574	408.3568	15.67752	2.573713

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	15.27041	406.9761	15.04563	404.7486	2.562952	1.270553
Stddev	.06965	2.3112	.08596	2.1406	.028330	.002591
%RSD	.4560965	.5678858	.5713153	.5288827	1.105362	.2039196
#1	15.19919	404.3321	14.95458	402.5250	2.530271	1.271757
#2	15.27368	408.6117	15.12537	406.7953	2.578044	1.272323
#3	15.33837	407.9845	15.05695	404.9257	2.580540	1.267579

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	415.4865	2.511045	14.89689	155.1022	5.077464	F 4.437268
Stddev	3.3271	.003731	.07026	.6366	.056294	.008570
%RSD	.8007653	.1485984	.4716208	.4104387	1.108699	.1931257
#1	413.9465	2.508987	14.86812	154.3687	5.015446	4.446465
#2	419.3046	2.508795	14.84559	155.4266	5.091613	4.435831
#3	413.2084	2.515352	14.97697	155.5113	5.125334	4.429508

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: CCV115 Acquired: 01/05/2025 21:55:40 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV115 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.967982	5.135469	5.020247	5.131953	5.039216	4.805102
Stddev	.058650	.053674	.019255	.050293	.025745	.029351
%RSD	1.180568	1.045167	.3835562	.9800026	.5108900	.6108267
#1	4.900264	5.074891	5.036433	5.074619	5.011559	4.771503
#2	5.001098	5.154418	5.025355	5.152617	5.062485	4.825744
#3	5.002585	5.177099	4.998952	5.168622	5.043604	4.818060

Elem	Li6707
Units	ppm
Avg	5.095394
Stddev	.027867
%RSD	.5469036
#1	5.063482
#2	5.107771
#3	5.114928

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1470.745	15838.94	1566.599	1085.833	1579.496
Stddev	16.999	92.69	9.102	5.966	17.472
%RSD	1.155801	.5852009	.5809909	.5494113	1.106170
#1	1490.325	15912.95	1567.344	1092.660	1599.669
#2	1459.764	15734.98	1557.147	1083.217	1569.167
#3	1462.145	15868.90	1575.305	1081.622	1569.652

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: CCB115 Acquired: 01/05/2025 21:59:26 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB115 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0024084	.0005198	.0009759	-.003522	.0011338	.0224739	-.000930
Stddev	.0018760	.0031146	.0016729	.002289	.0027290	.0347970	.003632
%RSD	77.89386	599.1426	171.4154	64.98475	240.6935	154.8331	390.3289
#1	.0038086	.0038965	-.000526	-.002793	-.001655	.0182273	.003126
#2	.0031397	-.002241	.002779	-.006087	.001258	-.010005	-.002039
#3	.0002769	-.000096	.000675	-.001687	.003799	.059199	-.003878

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000716	.0000209	.0271391	.0004869	.0006059	-.005640	.0243803
Stddev	.0001171	.0000803	.0480509	.0011277	.0005250	.011427	.0230709
%RSD	163.6993	384.1562	177.0542	231.5929	86.65400	202.6002	94.62921
#1	-.000040	.0000806	-.026226	.0003092	.0004367	.007305	.0021217
#2	.000193	.0000525	.066976	.0016930	.0001863	-.014323	.0481857
#3	.000062	-.000070	.040667	-.000541	.0011947	-.009903	.0228337

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0009669	-.047628	.0006830	-.000279	.1654591	-.005363	.0030406
Stddev	.0017558	.027959	.0007324	.000535	.0097579	.009642	.0007277
%RSD	181.5961	58.70355	107.2386	191.9710	5.897438	179.7891	23.93296
#1	.0029941	-.076127	.0000099	-.000888	.1543592	-.015611	.0035155
#2	-.000073	-.020242	.0005760	-.000057	.1693326	.003531	.0034034
#3	-.000021	-.046515	.0014631	.000110	.1726854	-.004010	.0022028

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2666207	.0001611	.0140490	-.000899	.0035335	.0010866	-.001170
Stddev	.0628094	.0015761	.0027192	.000143	.0039047	.0005496	.000766
%RSD	23.55759	978.2943	19.35503	15.90289	110.5067	50.57299	65.44439
#1	.2000038	.0012773	.0123831	-.001042	.0077114	.0004811	-.000399
#2	.2750964	-.001642	.0171869	-.000756	.0029125	.0012251	-.001181
#3	.3247619	.000848	.0125771	-.000901	-.000024	.0015537	-.001930

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: CCB115 Acquired: 01/05/2025 21:59:26 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB115 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	-.004186	-.000014	.0078068
Stddev	.001690	.000048	.0053603
%RSD	40.37389	333.9734	68.66138
#1	-.003091	-.000056	.0080778
#2	-.006132	.000038	.0130264
#3	-.003334	-.000025	.0023162

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1790.909	17772.02	1650.145	1307.642	2000.749
Stddev	5.512	95.63	19.285	5.083	6.641
%RSD	.3077543	.5380970	1.168711	.3887294	.3319041
#1	1784.772	17677.44	1659.479	1301.790	1993.188
#2	1792.518	17769.95	1627.968	1310.169	2003.425
#3	1795.437	17868.67	1662.987	1310.967	2005.635

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: CCV116 Acquired: 01/05/2025 23:09:27 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV116 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.057726	4.900860	25.03393	5.056374	4.982840	407.7607
Stddev	.021942	.013152	.03155	.020683	.015332	7.0945
%RSD	.4338276	.2683660	.1260126	.4090462	.3076912	1.739875
#1	5.073123	4.887951	25.04972	5.078581	4.996616	415.9316
#2	5.067453	4.900385	24.99761	5.037660	4.966323	404.1851
#3	5.032602	4.914243	25.05446	5.052882	4.985582	403.1655

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	10.43185	.5182059	2.519317	416.7371	15.76532	2.523240
Stddev	.11369	.0066693	.003657	5.0745	.03777	.003798
%RSD	1.089789	1.287006	.1451620	1.217676	.2395490	.1505187
#1	10.55553	.5259062	2.522304	422.4783	15.73324	2.525561
#2	10.40811	.5142574	2.515239	414.8810	15.75580	2.518857
#3	10.33191	.5144542	2.520408	412.8519	15.80694	2.525303

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	15.59201	412.8619	15.33730	409.4638	2.540922	1.283748
Stddev	.19798	6.5312	.22049	6.1749	.004340	.003104
%RSD	1.269770	1.581940	1.437620	1.508051	.1707870	.2417854
#1	15.81772	420.4008	15.59167	416.4889	2.545275	1.282442
#2	15.51064	408.9164	15.21957	407.0077	2.536596	1.281510
#3	15.44769	409.2686	15.20066	404.8948	2.540895	1.287291

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	419.6107	2.548423	14.89384	157.1225	5.003570	F 4.484012
Stddev	9.4892	.027732	.15930	2.2630	.018081	.051519
%RSD	2.261426	1.088215	1.069548	1.440274	.3613544	1.148940
#1	429.6971	2.580380	14.75489	159.6182	4.984608	4.539616
#2	410.8603	2.530671	14.85893	156.5453	5.005486	4.437898
#3	418.2747	2.534218	15.06769	155.2040	5.020616	4.474523

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: CCV116 Acquired: 01/05/2025 23:09:27 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV116 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.945719	5.089426	5.101395	5.083920	5.138222	4.893399
Stddev	.016039	.008796	.049878	.005394	.080807	.077930
%RSD	.3243006	.1728254	.9777236	.1060930	1.572657	1.592564
#1	4.958829	5.096468	5.157073	5.080919	5.230658	4.982657
#2	4.927835	5.079567	5.060798	5.080695	5.103021	4.858661
#3	4.950494	5.092244	5.086315	5.090147	5.080987	4.838877

Elem	Li6707
Units	ppm
Avg	5.129858
Stddev	.058863
%RSD	1.147458
#1	5.197635
#2	5.100396
#3	5.091543

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1474.537	15721.75	1538.625	1084.106	1588.093
Stddev	6.315	85.40	28.347	5.367	5.257
%RSD	.4282533	.5431777	1.842375	.4950566	.3310497
#1	1472.053	15628.39	1506.018	1082.495	1589.615
#2	1481.716	15795.92	1557.410	1090.094	1592.421
#3	1469.842	15740.93	1552.447	1079.729	1582.243

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: CCB116 Acquired: 01/05/2025 23:13:13 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB116 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0038757	-.001022	.0033734	.0085347	-.000102	.0089171
Stddev	.0030807	.000925	.0020033	.0053094	.002747	.0164628
%RSD	79.48824	90.50730	59.38477	62.21007	2688.884	184.6213
#1	.0023284	-.000454	.0036397	.0125003	.002807	-.009920
#2	.0074234	-.000523	.0052302	.0025027	-.000463	.020548
#3	.0018754	-.002090	.0012503	.0106011	-.002651	.016123

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.004605	.0000556	.0000109	.0648015	.0003042	.0004749
Stddev	.001923	.0002034	.0000396	.0282629	.0003971	.0001952
%RSD	41.75274	365.8198	362.7217	43.61456	130.5388	41.10559
#1	-.005883	.0001794	-.000034	.0626406	-.000013	.0002977
#2	-.002394	.0001665	.000040	.0940829	.000749	.0006842
#3	-.005539	-.000179	.000027	.0376811	.000176	.0004430

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.015145	-.009563	.0012503	-.046064	.0000403	-.000704
Stddev	.004888	.031890	.0031392	.130565	.0009734	.000892
%RSD	32.27699	333.4615	251.0852	283.4443	2413.404	126.6478
#1	-.015597	-.046332	.0046773	-.180222	-.000301	-.000196
#2	-.019791	.010554	.0005594	.080585	-.000716	-.000183
#3	-.010046	.007088	-.001486	-.038554	.001139	-.001735

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1679560	-.000005	.0039002	.3630781	-.004226	.0130306
Stddev	.0338426	.013022	.0004784	.2708658	.001772	.0007506
%RSD	20.14966	243616.0	12.26613	74.60264	41.92719	5.760677
#1	.1627531	-.009358	.0041645	.3830872	-.002473	.0124372
#2	.1370162	-.005525	.0041882	.6233845	-.006016	.0138745
#3	.2040987	.014867	.0033480	.0827625	-.004190	.0127803

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: CCB116 Acquired: 01/05/2025 23:13:13 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB116 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001051	-.000636	.0009334	.0003273	-.003499	.0004958
Stddev	.0002393	.001986	.0010363	.0007610	.001313	.0003504
%RSD	227.8005	312.1829	111.0241	232.5122	37.50716	70.67143
#1	-.000038	-.002470	.0017964	.0009301	-.004557	.0008069
#2	-.000028	-.000911	.0012198	-.000528	-.002031	.0005641
#3	.000381	.001473	-.000216	.000579	-.003911	.0001163

Elem	Li6707
Units	ppm
Avg	F .0152577
Stddev	.0052098
%RSD	34.14516
#1	.0096524
#2	.0199516
#3	.0161691

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1797.893	17945.50	1680.428	1319.740	2019.542
Stddev	8.467	44.63	17.144	3.127	8.785
%RSD	.4709326	.2486906	1.020242	.2369309	.4349910
#1	1802.196	17919.23	1674.268	1316.224	2025.377
#2	1803.343	17920.23	1699.802	1320.791	2023.811
#3	1788.138	17997.03	1667.215	1322.207	2009.439

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: P5080-04 Acquired: 01/05/2025 23:17:14 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHLE2 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0943375	-.025526	.3254068	.1024884	.0402320	80.57376	1.770878
Stddev	.0035503	.001962	.0034728	.0057822	.0021230	1.02455	.007942
%RSD	3.763365	7.684784	1.067218	5.641818	5.276846	1.271568	.4484720
#1	.0938763	-.026274	.3228646	.1030154	.0378443	80.33624	1.765348
#2	.0980959	-.027004	.3239921	.0964608	.0419067	79.68882	1.767308
#3	.0910404	-.023301	.3293636	.1079892	.0409449	81.69620	1.779979

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0061692	.0064151	62.72116	.1655858	.1170932	.1894207	185.1637
Stddev	.0002832	.0001272	.33489	.0000596	.0000642	.0186377	1.6967
%RSD	4.589963	1.982818	.5339396	.0359778	.0548461	9.839324	.9163239
#1	.0059890	.0062880	62.69836	.1655256	.1170981	.1896910	184.5553
#2	.0060230	.0065424	62.39825	.1655870	.1171548	.1706493	183.8550
#3	.0064956	.0064149	63.06687	.1656448	.1170266	.2079218	187.0807

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	13.57957	38.49555	.1766493	-.009806	.8040288	.1678713	.9058113
Stddev	.12880	.40515	.0020277	.001678	.0186587	.0206337	.0035696
%RSD	.9485119	1.052467	1.147888	17.10925	2.320653	12.29139	.3940818
#1	13.55155	38.40483	.1789899	-.010707	.8005710	.1683733	.9032525
#2	13.46708	38.14345	.1754253	-.010841	.7873408	.1469912	.9042921
#3	13.72008	38.93838	.1755327	-.007870	.8241745	.1882495	.9098892

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	8.632995	8.502195	-.389965	.0063474	1.720016	9.571509	.0307084
Stddev	.044901	.016448	.008933	.0003129	.004214	.135554	.0013416
%RSD	.5201106	.1934510	2.290786	4.929048	.2449960	1.416223	4.368972
#1	8.605306	8.484423	-.398317	.0060158	1.716213	9.656227	.0313375
#2	8.684801	8.516882	-.380546	.0066373	1.724546	9.415168	.0316198
#3	8.608877	8.505279	-.391031	.0063891	1.719287	9.643133	.0291678

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: P5080-04 Acquired: 01/05/2025 23:17:14 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHLE2 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.9915090	-.045957	.1219803
Stddev	.0156345	.000239	.0016040
%RSD	1.576839	.5208601	1.314992
#1	.9737482	-.045961	.1234891
#2	1.003192	-.045716	.1221563
#3	.997587	-.046194	.1202956

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2159.472	21728.81	2027.765	1584.892	1872.193
Stddev	8.159	12.39	27.956	11.409	7.090
%RSD	.3778248	.0570052	1.378685	.7198573	.3786814
#1	2150.320	21718.77	2007.708	1594.293	1865.924
#2	2162.111	21742.65	2059.699	1588.182	1870.768
#3	2165.985	21725.01	2015.888	1572.199	1879.887

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: P5080-05 Acquired: 01/05/2025 23:21:04 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHLE3 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0604809	-.016677	.2113196	.0655090	.0316546	66.90818
Stddev	.0042857	.005317	.0018400	.0020632	.0019462	.39463
%RSD	7.085994	31.88292	.8707023	3.149504	6.148288	.5898095
#1	.0642560	-.013520	.2124919	.0658684	.0300825	66.89135
#2	.0613643	-.013695	.2091989	.0673690	.0310499	66.52223
#3	.0558224	-.022816	.2122680	.0632898	.0338314	67.31095

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9214174	.0054081	.0023499	137.0412	.1187862	.1069270
Stddev	.0040625	.0001248	.0000207	.7378	.0028760	.0007437
%RSD	.4408991	2.307514	.8793554	.5383528	2.421136	.6955045
#1	.9167876	.0053958	.0023731	136.9929	.1195428	.1077855
#2	.9243863	.0052898	.0023334	136.3287	.1156076	.1064815
#3	.9230782	.0055385	.0023432	137.8019	.1212082	.1065139

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2196500	146.0982	6.595877	53.38999	.1558643	-.009170
Stddev	.0098114	.8461	.035394	.22563	.0003177	.001559
%RSD	4.466834	.5791246	.5366025	.4226027	.2038255	16.99731
#1	.2103790	146.2317	6.592556	53.32401	.1557930	-.010670
#2	.2299247	145.1932	6.562261	53.20471	.1562115	-.007559
#3	.2186462	146.8695	6.632814	53.64125	.1555883	-.009283

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.162366	.1478517	.4290790	6.530357	F 10.50784	-.313809
Stddev	.017417	.0141673	.0124456	.245896	.01987	.002336
%RSD	1.498438	9.582080	2.900529	3.765423	.1891171	.7442988
#1	1.154065	.1369194	.4329539	6.724215	10.52674	-.311841
#2	1.150652	.1427787	.4151569	6.253764	10.50965	-.313196
#3	1.182381	.1638571	.4391260	6.613090	10.48712	-.316390

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: P5080-05 Acquired: 01/05/2025 23:21:04 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHLE3 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0060265	.9205777	11.56841	.0242007	1.109359	.0465385
Stddev	.0008241	.0076686	.10943	.0010713	.009921	.0010175
%RSD	13.67431	.8330171	.9459378	4.426641	.8943436	2.186257
#1	.0062901	.9266979	11.49240	.0238829	1.104852	.0455227
#2	.0066866	.9119756	11.51900	.0253949	1.102492	.0465352
#3	.0051029	.9230598	11.69383	.0233243	1.120734	.0475576

Elem	Li6707
Units	ppm
Avg	.1346093
Stddev	.0033959
%RSD	2.522785
#1	.1325929
#2	.1327051
#3	.1385300

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2059.470	20778.07	1935.512	1523.627	1854.315
Stddev	3.316	416.66	5.465	36.060	1.503
%RSD	.1610150	2.005307	.2823315	2.366738	.0810313
#1	2056.337	20653.51	1940.954	1506.161	1852.892
#2	2062.943	21242.81	1935.558	1565.095	1855.886
#3	2059.132	20437.90	1930.025	1499.626	1854.167

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: P5080-06 Acquired: 01/05/2025 23:24:53 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHLE4 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0989599	-.022971	.4945734	.0726761	.0437804	56.40419
Stddev	.0004538	.007674	.0022777	.0058293	.0023978	.15481
%RSD	.4585414	33.40637	.4605382	8.020876	5.476914	.2744659
#1	.0984682	-.031812	.4958472	.0749957	.0459126	56.55931
#2	.0990488	-.018037	.4959293	.0769885	.0442441	56.40357
#3	.0993626	-.019064	.4919438	.0660441	.0411847	56.24969

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.104364	.0060864	.0053398	712.8347	.2048736	.1335374
Stddev	.004753	.0001433	.0001618	.8310	.0079367	.0006160
%RSD	.4303828	2.354366	3.030261	.1165837	3.873965	.4612736
#1	1.105759	.0062201	.0054224	713.2879	.2083222	.1341343
#2	1.099069	.0059352	.0054436	711.8756	.1957959	.1335740
#3	1.108263	.0061038	.0051533	713.3407	.2105026	.1329040

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3843394	220.3651	10.27566	126.3873	.1802618	-.012053
Stddev	.0009286	.3477	.01800	.1741	.0004553	.002212
%RSD	.2416134	.1577756	.1751656	.1377258	.2526076	18.35224
#1	.3854087	220.7549	10.27612	126.1917	.1807365	-.014416
#2	.3838741	220.2532	10.25744	126.4450	.1798287	-.010032
#3	.3837355	220.0871	10.29343	126.5252	.1802202	-.011711

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.368118	.2096504	.5093382	9.111078	F 12.26292	-.432696
Stddev	.061910	.0146153	.0197176	.087735	.02456	.004948
%RSD	2.614332	6.971262	3.871222	.9629526	.2002665	1.143587
#1	2.430482	.2085877	.5105501	9.187326	12.25494	-.437398
#2	2.306671	.2247680	.4890426	9.130723	12.24334	-.427534
#3	2.367201	.1955954	.5284219	9.015186	12.29047	-.433157

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: P5080-06 Acquired: 01/05/2025 23:24:53 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHLE4 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0086755	2.809920	7.255417	.0372359	1.430471	.5239589
Stddev	.0007544	.016443	.066574	.0019485	.002438	.0009245
%RSD	8.695851	.5851715	.9175758	5.232808	.1704330	.1764505
#1	.0091825	2.827227	7.327117	.0390602	1.427708	.5245886
#2	.0078085	2.808029	7.195557	.0374643	1.431384	.5228975
#3	.0090354	2.794505	7.243577	.0351834	1.432320	.5243905

Elem	Li6707
Units	ppm
Avg	.1308921
Stddev	.0053530
%RSD	4.089586
#1	.1267329
#2	.1290120
#3	.1369315

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2039.911	20857.52	1980.014	1511.858	1652.072
Stddev	6.746	602.80	12.434	44.432	7.391
%RSD	.3307051	2.890091	.6279738	2.938893	.4473887
#1	2035.684	20701.57	1965.683	1500.424	1648.267
#2	2047.691	21522.97	1986.426	1560.890	1660.590
#3	2036.359	20348.01	1987.933	1474.261	1647.358

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: P5080-07 Acquired: 01/05/2025 23:28:41 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHLE5 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0421347	-.009496	.1270164	.0417815	.0286596	57.02521
Stddev	.0052497	.003368	.0023664	.0070050	.0028505	.25913
%RSD	12.45932	35.46476	1.863065	16.76577	9.946093	.4544160
#1	.0416192	-.013271	.1288316	.0340209	.0276446	57.01421
#2	.0476232	-.008418	.1278777	.0476366	.0264556	57.28966
#3	.0371618	-.006800	.1243400	.0436871	.0318787	56.77175

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5415182	.0054246	.0033003	F 848.8326	.1335339	.1143930
Stddev	.0010698	.0001311	.0001304	3.9417	.0006515	.0004151
%RSD	.1975576	2.417501	3.951822	.4643722	.4878756	.3628627
#1	.5407564	.0053552	.0032718	844.3234	.1329307	.1147529
#2	.5410570	.0055758	.0031865	851.6235	.1342248	.1144871
#3	.5427413	.0053426	.0034427	850.5508	.1334463	.1139389

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3269076	163.5288	6.426202	77.99127	.1517663	-.010982
Stddev	.0026229	.4717	.023959	.22131	.0011108	.001171
%RSD	.8023494	.2884591	.3728308	.2837617	.7319357	10.66461
#1	.3284437	163.4173	6.410307	77.93658	.1508773	-.011466
#2	.3284002	164.0463	6.453759	78.23480	.1514100	-.009646
#3	.3238790	163.1229	6.414540	77.80244	.1530116	-.011833

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.222795	.1551329	.3067356	10.60067	4.577755	-.290563
Stddev	.002578	.0188262	.0020556	.13029	.003186	.006700
%RSD	.1159784	12.13552	.6701542	1.229108	.0695958	2.305781
#1	2.221458	.1345785	.3043818	10.47393	4.576133	-.294765
#2	2.225767	.1715389	.3081770	10.73425	4.581425	-.282837
#3	2.221161	.1592814	.3076481	10.59383	4.575705	-.294087

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: P5080-07 Acquired: 01/05/2025 23:28:41 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHLE5 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0030513	1.885181	9.935512	.0339591	2.190905	.6681224
Stddev	.0008341	.005334	.067178	.0022176	.011725	.0015298
%RSD	27.33564	.2829186	.6761393	6.530113	.5351866	.2289709
#1	.0024393	1.879853	10.00413	.0339064	2.177406	.6692741
#2	.0040014	1.885170	9.86988	.0362025	2.196746	.6687064
#3	.0027133	1.890520	9.93253	.0317683	2.198563	.6663866

Elem	Li6707
Units	ppm
Avg	.1452583
Stddev	.0035008
%RSD	2.410016
#1	.1412168
#2	.1472088
#3	.1473494

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1883.518	18903.51	1825.617	1377.014	1672.050
Stddev	7.192	43.84	5.585	4.523	4.218
%RSD	.3818184	.2319337	.3059188	.3284419	.2522528
#1	1883.899	18951.09	1819.289	1382.215	1673.927
#2	1876.143	18864.75	1829.857	1374.003	1667.220
#3	1890.511	18894.67	1827.705	1374.825	1675.004

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: P5080-08 Acquired: 01/05/2025 23:32:29 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHLE6 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1137272	-.014966	2.528710	.0673515	.0277975	56.37093
Stddev	.0027482	.004800	.005667	.0017635	.0021057	.19126
%RSD	2.416450	32.07496	.2241232	2.618299	7.575268	.3392899
#1	.1168424	-.010865	2.533481	.0653164	.0271807	56.26592
#2	.1116463	-.020246	2.522445	.0683092	.0260691	56.59169
#3	.1126927	-.013787	2.530204	.0684288	.0301428	56.25518

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.547516	.0057200	.0080409	57.86409	.3351345	.0803786
Stddev	.007044	.0002155	.0000651	.17435	.0010458	.0005479
%RSD	.4551737	3.767936	.8091523	.3013101	.3120566	.6816712
#1	1.551677	.0056372	.0079965	57.93767	.3354865	.0809480
#2	1.539384	.0055581	.0080106	57.66501	.3359588	.0803327
#3	1.551489	.0059647	.0081156	57.98959	.3339581	.0798551

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3332119	130.3320	6.429906	19.70358	.1592979	-.006491
Stddev	.0047292	.0709	.019885	.04664	.0010412	.000876
%RSD	1.419272	.0544126	.3092551	.2367201	.6535883	13.49312
#1	.3332661	130.4111	6.450579	19.74740	.1604946	-.006648
#2	.3284559	130.2742	6.410916	19.70879	.1585997	-.005548
#3	.3379138	130.3106	6.428224	19.65455	.1587995	-.007279

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6092352	.1277049	1.999861	9.621081	F 16.33163	-.258943
Stddev	.0123667	.0024297	.006003	.163506	.05725	.002224
%RSD	2.029882	1.902611	.3001955	1.699457	.3505296	.8588108
#1	.6211118	.1295244	2.003232	9.634072	16.38948	-.256735
#2	.6101631	.1286447	2.003421	9.451466	16.27500	-.261183
#3	.5964306	.1249457	1.992929	9.777703	16.33040	-.258912

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: P5080-08 Acquired: 01/05/2025 23:32:29 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHLE6 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0101287	4.362532	10.22838	.2719334	.7683774	.0467904
Stddev	.0003921	.010039	.06601	.0020758	.0064510	.0006023
%RSD	3.870837	.2301184	.6453215	.7633521	.8395556	1.287254
#1	.0097000	4.373584	10.28873	.2734388	.7718283	.0474073
#2	.0104690	4.360036	10.15789	.2695654	.7723689	.0467599
#3	.0102171	4.353977	10.23852	.2727960	.7609350	.0462038

Elem	Li6707
Units	ppm
Avg	.0974616
Stddev	.0018873
%RSD	1.936414
#1	.0978210
#2	.0954205
#3	.0991433

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2081.324	20779.70	1937.407	1516.920	1941.133
Stddev	7.885	157.62	17.681	9.574	7.695
%RSD	.3788519	.7585382	.9126192	.6311155	.3964005
#1	2082.094	20656.99	1917.107	1508.445	1938.193
#2	2073.082	20724.64	1945.677	1515.011	1935.343
#3	2088.796	20957.46	1949.438	1527.304	1949.865

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: P5128-08 Acquired: 01/05/2025 23:36:17 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMJ7 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2005197	-.028280	5.453227	.0973963	.0620484	53.73382	2.244773
Stddev	.0060220	.001676	.018221	.0075167	.0036923	.46819	.014013
%RSD	3.003198	5.925469	.3341292	7.717619	5.950742	.8713059	.6242444
#1	.2038013	-.027888	5.435618	.1018199	.0605690	53.26204	2.229940
#2	.1935697	-.026835	5.452061	.1016516	.0662510	54.19833	2.257789
#3	.2041880	-.030117	5.472004	.0887173	.0593251	53.74109	2.246589

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0086639	.0133788	190.3893	.1348312	.1310161	.4517079	210.0206
Stddev	.0000169	.0002455	1.1581	.0011347	.0007946	.0035138	1.6979
%RSD	.1946010	1.835320	.6082981	.8415977	.6064984	.7778836	.8084665
#1	.0086744	.0132794	189.0622	.1348338	.1314015	.4502490	208.4217
#2	.0086444	.0131986	191.1956	.1336952	.1301023	.4557161	211.8028
#3	.0086728	.0136585	190.9100	.1359646	.1315446	.4491586	209.8374

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	10.25773	58.95912	.2417058	-.013837	1.470182	.1940558	4.531642
Stddev	.07252	.48250	.0011180	.000058	.002862	.0065927	.020134
%RSD	.7069966	.8183603	.4625566	.4197845	.1946380	3.397332	.4442968
#1	10.18207	58.51724	.2404768	-.013821	1.473037	.1864702	4.516369
#2	10.32664	59.47393	.2419779	-.013902	1.467314	.1972937	4.524099
#3	10.26449	58.88618	.2426627	-.013789	1.470196	.1984034	4.554459

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.381184	8.921427	-.436896	.0173178	5.695117	7.800229	.2631276
Stddev	.070924	.027596	.010360	.0005702	.018113	.083198	.0037789
%RSD	1.318004	.3093212	2.371250	3.292378	.3180484	1.066614	1.436146
#1	5.404679	8.890620	-.425852	.0179647	5.700406	7.707934	.2617768
#2	5.437379	8.929778	-.438436	.0168884	5.674948	7.869467	.2602097
#3	5.301493	8.943882	-.446400	.0171003	5.709997	7.823286	.2673963

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: P5128-08 Acquired: 01/05/2025 23:36:17 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMJ7 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	1.345772	.2224658	.0892007
Stddev	.009867	.0018234	.0011559
%RSD	.7332208	.8196530	1.295866
#1	1.337344	.2207737	.0880187
#2	1.356626	.2243970	.0892549
#3	1.343345	.2222267	.0903286

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2042.851	20674.87	1938.553	1506.961	1880.249
Stddev	6.142	108.62	19.393	3.879	6.200
%RSD	.3006508	.5253514	1.000367	.2574037	.3297203
#1	2040.264	20592.10	1955.459	1506.520	1880.859
#2	2049.863	20634.64	1917.383	1503.322	1886.120
#3	2038.426	20797.86	1942.817	1511.042	1873.766

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: P5128-09 Acquired: 01/05/2025 23:40:03 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMJ8 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1608804	-.017329	5.459280	.0718841	.0446950	52.94250	1.898884
Stddev	.0026979	.006449	.018391	.0017547	.0020372	1.73336	.053326
%RSD	1.676969	37.21454	.3368699	2.441025	4.557935	3.274036	2.808260
#1	.1596483	-.016881	5.478563	.0732147	.0465803	52.82286	1.887177
#2	.1639744	-.011115	5.441935	.0698955	.0425341	51.27206	1.852385
#3	.1590186	-.023990	5.457341	.0725422	.0449707	54.73258	1.957091

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0071911	.0145075	207.8072	.1327902	.1182470	.3998472	177.6760
Stddev	.0001172	.0001520	6.1607	.0008979	.0006796	.0103472	5.8452
%RSD	1.629830	1.047613	2.964631	.6762085	.5746983	2.587784	3.289801
#1	.0071823	.0146794	207.1673	.1329440	.1189815	.3949220	177.4537
#2	.0070785	.0144522	201.9914	.1336013	.1181190	.3928826	171.9452
#3	.0073124	.0143909	214.2629	.1318253	.1176406	.4117369	183.6292

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	8.590125	63.66652	.2357306	-.010349	1.105253	.1610157	4.811587
Stddev	.264821	1.83731	.0006203	.000659	.027899	.0055435	.004068
%RSD	3.082849	2.885842	.2631612	6.364633	2.524186	3.442842	.0845491
#1	8.560836	63.53105	.2363662	-.009595	1.110552	.1635073	4.813777
#2	8.341167	61.90069	.2356989	-.010813	1.075085	.1546636	4.806893
#3	8.868373	65.56782	.2351268	-.010639	1.130122	.1648763	4.814091

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.216009	8.032926	-.358463	.0160764	4.649266	6.797013	.1826604
Stddev	.267973	.016762	.007732	.0008732	.014492	.176693	.0004717
%RSD	6.356089	.2086699	2.156892	5.431714	.3117068	2.599567	.2582351
#1	3.965265	8.049507	-.359216	.0156063	4.665707	6.771304	.1825183
#2	4.184361	8.015988	-.350382	.0155389	4.638347	6.634583	.1822761
#3	4.498401	8.033283	-.365790	.0170839	4.643743	6.985152	.1831868

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: P5128-09 Acquired: 01/05/2025 23:40:03 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMJ8 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	1.082134	.3602398	.0866842
Stddev	.031271	.0109941	.0040552
%RSD	2.889774	3.051872	4.678086
#1	1.081842	.3605875	.0875556
#2	1.051010	.3490760	.0902328
#3	1.113550	.3710559	.0822641

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1994.608	20032.62	1900.083	1462.299	1870.681
Stddev	1.448	61.39	44.893	4.143	5.863
%RSD	.0725750	.3064700	2.362703	.2832989	.3134302
#1	1993.408	19967.43	1903.522	1458.009	1864.133
#2	1994.201	20041.10	1943.158	1462.612	1875.445
#3	1996.216	20089.33	1853.569	1466.276	1872.465

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: P5128-10 Acquired: 01/05/2025 23:43:49 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMJ9 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1516706	-.009668	6.850415	.0647804	.0343186	51.73270	2.053016
Stddev	.0048484	.005640	.008177	.0014045	.0018182	.18543	.004740
%RSD	3.196653	58.33697	.1193631	2.168126	5.298053	.3584313	.2308776
#1	.1572264	-.007278	6.842729	.0631736	.0323166	51.84673	2.055146
#2	.1482954	-.005616	6.849509	.0653927	.0347718	51.83263	2.056318
#3	.1494901	-.016109	6.859007	.0657748	.0358673	51.51874	2.047585

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0070690	.0226290	469.8222	.1573691	.1238589	.4374286	171.2267
Stddev	.0000657	.0001836	.9606	.0003095	.0004260	.0032559	.6320
%RSD	.9299191	.8115283	.2044529	.1966721	.3439834	.7443272	.3691190
#1	.0071426	.0227795	470.8816	.1572178	.1242726	.4363147	171.4437
#2	.0070481	.0226832	469.5769	.1571643	.1238828	.4410952	171.7216
#3	.0070162	.0224244	469.0080	.1577251	.1234215	.4348758	170.5147

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.249577	248.5434	.3004878	-.010368	1.420291	.1820944	7.498492
Stddev	.030169	1.0645	.0008011	.000324	.032867	.0111254	.030476
%RSD	.3261715	.4282834	.2666093	3.128254	2.314115	6.109689	.4064240
#1	9.270119	248.9215	.3014017	-.010563	1.456608	.1897851	7.528645
#2	9.263671	249.3672	.2999067	-.009994	1.411674	.1693376	7.467703
#3	9.214939	247.3414	.3001550	-.010548	1.392590	.1871606	7.499127

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.633772	9.626072	-.336588	.0172660	9.115488	7.895176	.1450841
Stddev	.234267	.007578	.005000	.0006718	.023047	.014548	.0006945
%RSD	5.055641	.0787275	1.485569	3.890703	.2528338	.1842587	.4786709
#1	4.841198	9.619859	-.336931	.0172375	9.094057	7.905940	.1447625
#2	4.379687	9.623842	-.331425	.0179516	9.112540	7.900964	.1446087
#3	4.680430	9.634516	-.341408	.0166089	9.139867	7.878626	.1458811

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: P5128-10 Acquired: 01/05/2025 23:43:49 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMJ9 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	1.685303	.2230765	.0863642
Stddev	.016602	.0008248	.0013301
%RSD	.9851345	.3697247	1.540058
#1	1.669787	.2230623	.0878896
#2	1.702812	.2239082	.0854465
#3	1.683310	.2222589	.0857565

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1925.557	19364.16	1857.543	1408.846	1707.550
Stddev	3.253	50.29	5.126	8.637	3.823
%RSD	.1689358	.2597315	.2759538	.6130576	.2238602
#1	1921.973	19409.73	1852.027	1401.800	1704.588
#2	1926.376	19372.55	1862.160	1418.482	1711.865
#3	1928.322	19310.19	1858.441	1406.256	1706.196

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: P5128-11 Acquired: 01/05/2025 23:47:34 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMK0 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1341218	-.017476	7.053952	.0792790	.0426645	60.06223
Stddev	.0082064	.008597	.012012	.0041164	.0039224	.86270
%RSD	6.118589	49.19232	.1702855	5.192343	9.193540	1.436338
#1	.1433511	-.027394	7.052886	.0756054	.0462506	61.04243
#2	.1313671	-.012859	7.042509	.0785037	.0432672	59.72597
#3	.1276472	-.012173	7.066462	.0837280	.0384757	59.41831

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.873127	.0075149	.0223201	233.0945	.2260283	.1203965
Stddev	.024263	.0001138	.0002903	2.6900	.0034699	.0002761
%RSD	1.295338	1.513724	1.300657	1.154036	1.535157	.2292945
#1	1.896774	.0075553	.0221378	235.9788	.2224832	.1202897
#2	1.874317	.0073865	.0221676	232.6507	.2294177	.1207100
#3	1.848291	.0076029	.0226549	230.6540	.2261840	.1201898

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4997411	178.6511	8.638737	109.5995	.4093463	-.011552
Stddev	.0092177	2.3570	.120471	1.4960	.0011493	.000779
%RSD	1.844488	1.319340	1.394540	1.364943	.2807627	6.746740
#1	.5094114	181.3323	8.773557	111.2518	.4080192	-.011016
#2	.4910552	177.7154	8.601007	109.2097	.4100193	-.012446
#3	.4987566	176.9056	8.541647	108.3370	.4100003	-.011194

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.029148	.1975265	5.904458	4.149349	F 10.06190	-.359602
Stddev	.003462	.0079469	.092119	.199614	.00391	.008561
%RSD	.3363999	4.023184	1.560160	4.810730	.0388802	2.380658
#1	1.031393	.1891924	5.822527	4.350044	10.06641	-.369038
#2	1.030890	.2050192	6.004172	3.950834	10.05980	-.357436
#3	1.025161	.1983680	5.886674	4.147170	10.05949	-.352333

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: P5128-11 Acquired: 01/05/2025 23:47:34 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMK0 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0233855	6.735225	8.546099	.1338057	1.162001	.1602326
Stddev	.0003873	.020095	.079617	.0009471	.017158	.0018943
%RSD	1.656088	.2983524	.9316131	.7078387	1.476618	1.182204
#1	.0229539	6.731763	8.637087	.1331843	1.179811	.1624199
#2	.0237028	6.717087	8.511987	.1333369	1.160613	.1591415
#3	.0234998	6.756827	8.489222	.1348958	1.145578	.1591363

Elem	Li6707
Units	ppm
Avg	.0821162
Stddev	.0019136
%RSD	2.330407
#1	.0813160
#2	.0843000
#3	.0807325

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1990.821	20023.93	1897.050	1462.356	1830.082
Stddev	3.969	336.75	18.270	24.422	2.863
%RSD	.1993541	1.681760	.9630658	1.670056	.1564357
#1	1989.945	20312.30	1876.562	1484.200	1832.694
#2	1987.363	19653.83	1902.935	1435.988	1827.021
#3	1995.155	20105.65	1911.651	1466.880	1830.533

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: P5128-12 Acquired: 01/05/2025 23:51:21 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMK1 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1116662	-.010475	6.481285	.0650679	.0375931	49.89738	1.641538
Stddev	.0012165	.004680	.008485	.0007463	.0013033	.10663	.009023
%RSD	1.089404	44.67345	.1309131	1.146893	3.466765	.2136897	.5496964
#1	.1125643	-.008375	6.490846	.0652487	.0390152	49.87312	1.631217
#2	.1102818	-.015837	6.474651	.0642478	.0373080	49.80497	1.647934
#3	.1121526	-.007213	6.478359	.0657071	.0364559	50.01404	1.645463

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0061437	.0195714	226.3429	.2153258	.1062826	.5351260	161.9398
Stddev	.0002305	.0001362	1.0327	.0014396	.0003052	.0046130	.7963
%RSD	3.752087	.6957199	.4562716	.6685632	.2871961	.8620402	.4917490
#1	.0058775	.0195157	225.1573	.2167988	.1065932	.5400133	161.5925
#2	.0062793	.0197266	226.8248	.2152564	.1062717	.5345171	161.3761
#3	.0062743	.0194720	227.0467	.2139221	.1059830	.5308478	162.8508

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	8.032391	107.5504	.3365849	-.009551	.8431626	.1805775	5.201638
Stddev	.032038	.4788	.0005622	.000778	.0140911	.0104048	.024405
%RSD	.3988612	.4451463	.1670332	8.141291	1.671222	5.761960	.4691837
#1	8.013793	107.2192	.3371612	-.010229	.8515813	.1910910	5.173556
#2	8.013995	107.3327	.3365554	-.008702	.8268949	.1702849	5.217719
#3	8.069385	108.0993	.3360380	-.009723	.8510115	.1803568	5.213640

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.690195	8.684973	-.325103	.0235973	7.329578	8.116498	.1891933
Stddev	.110506	.004974	.003993	.0005380	.017693	.019645	.0022451
%RSD	2.994577	.0572756	1.228178	2.279753	.2413878	.2420369	1.186672
#1	3.636827	8.684675	-.321143	.0240921	7.315181	8.094381	.1914143
#2	3.817255	8.680155	-.329128	.0230247	7.324223	8.131923	.1869248
#3	3.616503	8.690090	-.325036	.0236751	7.349329	8.123190	.1892408

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: P5128-12 Acquired: 01/05/2025 23:51:21 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMK1 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	1.207365	.1154125	.0732473
Stddev	.004973	.0003954	.0022617
%RSD	.4119150	.3426259	3.087827
#1	1.210962	.1150716	.0751634
#2	1.201690	.1153199	.0707524
#3	1.209444	.1158460	.0738261

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1938.348	19529.02	1825.073	1427.259	1825.993
Stddev	6.000	44.35	.519	.504	7.069
%RSD	.3095470	.2271094	.0284609	.0353086	.3871502
#1	1937.686	19495.84	1824.476	1427.511	1824.238
#2	1944.651	19511.82	1825.319	1427.588	1833.774
#3	1932.706	19579.39	1825.423	1426.679	1819.966

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: P5128-13 Acquired: 01/05/2025 23:55:07 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMK2 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1774691	-.021907	2.099803	.0949373	.0354723	63.46230
Stddev	.0060423	.004926	.002975	.0020389	.0018071	.37366
%RSD	3.404703	22.48690	.1416756	2.147599	5.094371	.5887864
#1	.1825661	-.021730	2.101354	.0943629	.0356786	63.86871
#2	.1707945	-.026919	2.101682	.0932472	.0371674	63.38455
#3	.1790466	-.017072	2.096373	.0972018	.0335709	63.13363

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.327048	.0067300	.0065417	53.06781	.1245874	.1235423
Stddev	.001869	.0001398	.0001047	.14206	.0007123	.0004245
%RSD	.1408119	2.076793	1.600398	.2676940	.5717295	.3435925
#1	1.327556	.0068458	.0066399	53.05921	.1237650	.1230581
#2	1.328611	.0067696	.0065537	53.21397	.1249923	.1238503
#3	1.324978	.0065747	.0064315	52.93024	.1250050	.1237186

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3916566	161.9004	15.80197	16.42673	.1914934	-.005480
Stddev	.0063940	.8975	.08678	.09918	.0013218	.000745
%RSD	1.632558	.5543266	.5491554	.6037495	.6902702	13.58607
#1	.3990170	162.6378	15.88122	16.53216	.1929522	-.005232
#2	.3874742	162.1622	15.81544	16.33529	.1903752	-.004891
#3	.3884786	160.9011	15.70925	16.41274	.1911529	-.006317

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4145007	.1690404	1.400884	11.29143	F 10.91842	-.338559
Stddev	.0094345	.0070655	.008400	.23771	.01352	.001132
%RSD	2.276103	4.179794	.5996046	2.105264	.1238410	.3344173
#1	.4202541	.1680964	1.391597	11.50907	10.93264	-.338030
#2	.4196353	.1765305	1.407950	11.32747	10.90573	-.337789
#3	.4036125	.1624944	1.403106	11.03776	10.91691	-.339859

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: P5128-13 Acquired: 01/05/2025 23:55:07 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMK2 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0130823	4.303993	8.709629	.1616736	.7284493	.0487442
Stddev	.0009442	.003130	.041153	.0019273	.0016197	.0005431
%RSD	7.217320	.0727135	.4725037	1.192075	.2223474	1.114197
#1	.0119944	4.307050	8.747389	.1608148	.7275801	.0482896
#2	.0136880	4.300796	8.715735	.1638810	.7274497	.0493456
#3	.0135646	4.304134	8.665764	.1603251	.7303180	.0485975

Elem	Li6707
Units	ppm
Avg	.0845704
Stddev	.0014831
%RSD	1.753680
#1	.0828727
#2	.0856139
#3	.0852247

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2171.839	21907.82	2030.945	1602.365	1940.687
Stddev	3.917	28.78	13.631	4.307	4.557
%RSD	.1803527	.1313623	.6711427	.2688080	.2348164
#1	2169.780	21874.70	2017.853	1606.686	1945.224
#2	2176.356	21922.06	2029.927	1598.072	1940.726
#3	2169.381	21926.70	2045.057	1602.339	1936.110

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: P5128-14 Acquired: 01/05/2025 23:58:55 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMK4 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2093700	-.018504	2.114958	.1096705	.0527945	86.64543
Stddev	.0037756	.005533	.004858	.0082690	.0008072	.30156
%RSD	1.803318	29.90115	.2296754	7.539833	1.529017	.3480426
#1	.2137195	-.013800	2.115674	.1037773	.0519522	86.83733
#2	.2069369	-.017112	2.109782	.1061111	.0528699	86.80112
#3	.2074536	-.024600	2.119418	.1191232	.0535614	86.29784

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.647519	.0078422	.0075686	95.95054	.1443239	.1604182
Stddev	.009620	.0000750	.0001867	.44275	.0005522	.0001496
%RSD	.5838948	.9557348	2.467113	.4614334	.3826415	.0932548
#1	1.640004	.0078233	.0076482	95.59264	.1437803	.1602520
#2	1.658360	.0079248	.0073552	96.44565	.1443070	.1604607
#3	1.644193	.0077785	.0077022	95.81333	.1448844	.1605420

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3707483	206.7437	21.77686	24.10085	.2013413	-.008397
Stddev	.0106872	.3296	.07456	.10206	.0007895	.000696
%RSD	2.882598	.1594201	.3423613	.4234653	.3921474	8.284314
#1	.3828814	206.4090	21.75858	23.99155	.2011730	-.008374
#2	.3627306	207.0679	21.85885	24.19366	.2006495	-.009104
#3	.3666328	206.7542	21.71314	24.11734	.2022015	-.007714

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6328829	.2107310	1.331021	10.59263	F 12.18779	-.442108
Stddev	.0288271	.0129181	.007244	.14886	.04700	.006430
%RSD	4.554884	6.130131	.5442332	1.405338	.3855947	1.454460
#1	.6505682	.2252185	1.322716	10.44065	12.16748	-.447987
#2	.6484620	.2065629	1.336036	10.59907	12.15437	-.443097
#3	.5996184	.2004115	1.334311	10.73817	12.24153	-.435241

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: P5128-14 Acquired: 01/05/2025 23:58:55 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMK4 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0111893	2.391043	9.024970	.2319411	.7305525	.1320650
Stddev	.0004889	.008695	.048886	.0015395	.0020459	.0011290
%RSD	4.369129	.3636654	.5416704	.6637652	.2800520	.8549201
#1	.0114470	2.394553	9.057422	.2306435	.7282107	.1324348
#2	.0106255	2.381141	9.048744	.2315377	.7319934	.1329628
#3	.0114955	2.397435	8.968744	.2336423	.7314533	.1307975

Elem	Li6707
Units	ppm
Avg	.1101201
Stddev	.0008302
%RSD	.7538764
#1	.1099314
#2	.1094005
#3	.1110284

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2242.977	22432.29	2109.613	1649.476	1929.215
Stddev	5.441	114.58	6.125	9.206	5.901
%RSD	.2425857	.5107856	.2903545	.5581298	.3058717
#1	2236.887	22514.34	2106.149	1658.787	1923.038
#2	2247.360	22481.15	2106.005	1649.261	1934.795
#3	2244.683	22301.38	2116.686	1640.379	1929.812

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: P5128-15 Acquired: 01/06/2025 0:02:44 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMK5 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1901782	-.027179	.9752527	.1224839	.0447164	71.42100	1.052885
Stddev	.0061867	.004516	.0077717	.0062384	.0023280	.37858	.000974
%RSD	3.253101	16.61690	.7968919	5.093275	5.206058	.5300644	.0924925
#1	.1848754	-.027160	.9815126	.1296299	.0433405	71.63714	1.052905
#2	.1886841	-.022673	.9665541	.1181240	.0474043	70.98387	1.051901
#3	.1969751	-.031706	.9776913	.1196977	.0434045	71.64200	1.053849

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0062477	.0054252	48.17259	.1063459	.1492506	.2599814	201.7498
Stddev	.0002117	.0000285	.11772	.0028358	.0012928	.0139450	.8583
%RSD	3.388875	.5261265	.2443674	2.666533	.8662061	5.363862	.4254444
#1	.0062772	.0054275	48.23683	.1042336	.1498162	.2717482	202.1100
#2	.0064431	.0054524	48.03673	.1095689	.1477714	.2445785	200.7700
#3	.0060228	.0053955	48.24420	.1052352	.1501642	.2636176	202.3693

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	23.37338	16.77361	.1564802	-.010938	.4580092	.1730453	.6839362
Stddev	.07100	.04318	.0016633	.002830	.0254312	.0041890	.0121426
%RSD	.3037610	.2574436	1.062959	25.87441	5.552552	2.420783	1.775398
#1	23.38855	16.72561	.1552153	-.009401	.4497081	.1694412	.6789855
#2	23.29603	16.78591	.1558609	-.014204	.4865537	.1720535	.6977720
#3	23.43557	16.80930	.1583643	-.009208	.4377658	.1776413	.6750510

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.469929	6.954838	-.458011	.0125651	1.429365	8.519602	.0713508
Stddev	.141456	.042908	.004977	.0005869	.017292	.047608	.0007118
%RSD	2.186364	.6169480	1.086615	4.671225	1.209750	.5588038	.9976461
#1	6.307878	6.957383	-.458952	.0131064	1.433945	8.479065	.0721726
#2	6.568687	6.910715	-.462451	.0119413	1.410244	8.572028	.0709248
#3	6.533222	6.996417	-.452632	.0126476	1.443905	8.507714	.0709550

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: P5128-15 Acquired: 01/06/2025 0:02:44 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMK5 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.6170898	-.009369	.0734875
Stddev	.0039488	.000378	.0031109
%RSD	.6399097	4.032745	4.233171
#1	.6216017	-.009803	.0737226
#2	.6142634	-.009119	.0702657
#3	.6154043	-.009183	.0764741

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2214.413	21911.48	2067.184	1612.905	1957.787
Stddev	5.209	408.16	6.555	21.729	3.689
%RSD	.2352530	1.862766	.3170897	1.347180	.1884106
#1	2209.655	22172.47	2072.829	1625.300	1956.008
#2	2219.979	21441.12	2059.995	1587.815	1962.028
#3	2213.605	22120.86	2068.728	1625.599	1955.325

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: P5128-16 Acquired: 01/06/2025 0:06:34 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMK6 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2077002	-.030282	.7458151	.1197010	.0470933	75.50839	.8440869
Stddev	.0037092	.006092	.0025085	.0058735	.0033275	.60903	.0063833
%RSD	1.785856	20.11587	.3363414	4.906821	7.065863	.8065762	.7562337
#1	.2104780	-.023639	.7482529	.1130025	.0436090	74.88009	.8370773
#2	.2034880	-.035605	.7432414	.1239698	.0474328	75.54897	.8456181
#3	.2091347	-.031603	.7459510	.1221308	.0502380	76.09612	.8495653

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0070207	.0048921	51.79612	.1109271	.1658801	.3036410	221.6569
Stddev	.0000673	.0000343	.30641	.0007539	.0007972	.0013606	1.9030
%RSD	.9582418	.7017267	.5915624	.6795870	.4805948	.4481129	.8585140
#1	.0070253	.0049246	51.47334	.1116929	.1667603	.3025117	219.6752
#2	.0069512	.0048562	51.83204	.1101858	.1656734	.3051516	221.8258
#3	.0070855	.0048956	52.08298	.1109024	.1652066	.3032595	223.4699

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	20.72523	20.10544	.1863159	-.013000	.4053677	.1691670	.5336180
Stddev	.17622	.01908	.0011346	.000341	.0094184	.0053230	.0004259
%RSD	.8502919	.0949152	.6089370	2.620343	2.323432	3.146606	.0798116
#1	20.56611	20.12327	.1850125	-.013300	.3959555	.1697110	.5331769
#2	20.69493	20.08531	.1870815	-.012630	.4053554	.1741971	.5340268
#3	20.91464	20.10774	.1868538	-.013070	.4147924	.1635929	.5336505

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.962089	4.906809	-.498001	.0101377	1.052989	8.213860	.0697148
Stddev	.163231	.007891	.002976	.0004683	.005197	.039605	.0010936
%RSD	2.050098	.1608081	.5975390	4.619153	.4935263	.4821678	1.568680
#1	7.773741	4.905091	-.496282	.0100034	1.054054	8.173818	.0707533
#2	8.050088	4.899919	-.496283	.0097512	1.057571	8.214750	.0698177
#3	8.062437	4.915417	-.501437	.0106584	1.047342	8.253012	.0685734

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: P5128-16 Acquired: 01/06/2025 0:06:34 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMK6 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.4207468	-.042726	.0918843
Stddev	.0023969	.000714	.0014808
%RSD	.5696735	1.670773	1.611551
#1	.4192197	-.041951	.0902024
#2	.4195113	-.043357	.0924586
#3	.4235093	-.042871	.0929919

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2351.925	23617.74	2210.460	1735.802	1965.765
Stddev	7.761	101.51	6.582	5.891	2.197
%RSD	.3300020	.4297956	.2977501	.3393620	.1117635
#1	2355.121	23520.37	2217.199	1730.454	1966.993
#2	2343.075	23722.93	2210.135	1734.836	1963.229
#3	2357.577	23609.90	2204.048	1742.116	1967.073

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: P5128-17 Acquired: 01/06/2025 0:10:24 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMK7 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2292344	-.021288	.6840041	.1131057	.0403012	68.64062
Stddev	.0040549	.002352	.0034978	.0021529	.0008358	.13683
%RSD	1.768871	11.04892	.5113790	1.903475	2.074018	.1993454
#1	.2330818	-.023865	.6799799	.1143397	.0408905	68.52022
#2	.2249999	-.019256	.6863152	.1106198	.0393446	68.61220
#3	.2296215	-.020744	.6857172	.1143578	.0406685	68.78943

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7185907	.0065434	.0055865	48.79855	.1020403	.1809011
Stddev	.0016960	.0002129	.0001672	.11553	.0003855	.0011010
%RSD	.2360107	3.254101	2.992724	.2367479	.3777707	.6086182
#1	.7204389	.0066365	.0054325	48.92320	.1024852	.1802736
#2	.7171060	.0066939	.0057643	48.77738	.1018274	.1821724
#3	.7182270	.0062998	.0055627	48.69507	.1018082	.1802574

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3046271	202.0776	20.57796	21.12108	.2186293	-.012032
Stddev	.0023884	.2175	.01674	.10259	.0005359	.000570
%RSD	.7840580	.1076261	.0813389	.4857332	.2451111	4.734287
#1	.3073842	202.1888	20.59673	21.09802	.2180985	-.011387
#2	.3033081	201.8270	20.57259	21.03197	.2191701	-.012243
#3	.3031890	202.2171	20.56457	21.23324	.2186192	-.012465

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4741414	.1387965	.4950885	7.717425	F 11.42105	-.441722
Stddev	.0213330	.0076512	.0070614	.170219	.03402	.007829
%RSD	4.499290	5.512543	1.426289	2.205649	.2979067	1.772321
#1	.4974639	.1435168	.4990006	7.552584	11.40952	-.444490
#2	.4556141	.1429040	.4993281	7.707134	11.45934	-.447791
#3	.4693461	.1299687	.4869369	7.892556	11.39429	-.432886

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: P5128-17 Acquired: 01/06/2025 0:10:24 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMK7 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0105368	1.112300	7.618356	.0400993	.3394012	-.019084
Stddev	.0004920	.006319	.088569	.0011921	.0019261	.000145
%RSD	4.669700	.5681352	1.162577	2.972749	.5674896	.7574669
#1	.0104477	1.107514	7.653269	.0411776	.3376016	-.019127
#2	.0110673	1.119463	7.684149	.0388192	.3391692	-.018923
#3	.0100954	1.109922	7.517651	.0403013	.3414328	-.019202

Elem	Li6707
Units	ppm
Avg	.0975503
Stddev	.0009513
%RSD	.9751738
#1	.0971594
#2	.0968568
#3	.0986348

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2593.672	26036.94	2436.376	1907.929	1936.861
Stddev	7.080	59.64	18.162	10.783	6.180
%RSD	.2729542	.2290778	.7454707	.5651416	.3190697
#1	2599.804	26007.46	2425.611	1898.823	1938.596
#2	2585.924	25997.78	2426.170	1905.129	1929.999
#3	2595.289	26105.59	2457.345	1919.835	1941.989

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: P5128-18 Acquired: 01/06/2025 0:14:13 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMK8 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1941219	-.021327	5.244601	.0806534	.0353178	50.61974
Stddev	.0062752	.003760	.006541	.0123732	.0023459	.70869
%RSD	3.232625	17.62955	.1247139	15.34114	6.642327	1.400017
#1	.1905723	-.017242	5.239835	.0729814	.0353328	49.92077
#2	.2013675	-.024644	5.241910	.0949273	.0376562	51.33776
#3	.1904261	-.022094	5.252058	.0740515	.0329645	50.60068

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.576751	.0057686	.0129999	67.09502	.1429123	.1294648
Stddev	.023136	.0000760	.0001585	1.08421	.0008340	.0004533
%RSD	1.467303	1.318105	1.218956	1.615926	.5835541	.3501707
#1	1.555346	.0058366	.0131785	66.01781	.1420355	.1289467
#2	1.601296	.0056865	.0128762	68.18609	.1430059	.1296588
#3	1.573609	.0057829	.0129450	67.08114	.1436955	.1297888

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7747408	153.2295	11.73042	23.12834	.1790899	-.004879
Stddev	.0075203	2.0517	.15471	.38856	.0015575	.001179
%RSD	.9706836	1.338969	1.318858	1.680012	.8696592	24.16689
#1	.7682423	151.2158	11.59156	22.69710	.1802712	-.006238
#2	.7829782	155.3172	11.89718	23.45121	.1773249	-.004270
#3	.7730019	153.1554	11.70252	23.23671	.1796737	-.004129

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6669579	.1440816	4.071359	8.151234	F 10.31823	-.315846
Stddev	.0197271	.0094714	.017135	.176130	.01871	.001171
%RSD	2.957767	6.573620	.4208683	2.160781	.1813131	.3706639
#1	.6891331	.1526309	4.054533	7.988547	10.32435	-.315083
#2	.6603818	.1339003	4.070756	8.126883	10.29723	-.317194
#3	.6513589	.1457137	4.088787	8.338273	10.33312	-.315261

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: P5128-18 Acquired: 01/06/2025 0:14:13 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMK8 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0189195	3.772260	8.568851	.2526425	.6837869	.0162051
Stddev	.0006376	.010447	.112716	.0032974	.0156888	.0002994
%RSD	3.370286	.2769426	1.315410	1.305178	2.294401	1.847340
#1	.0196003	3.777255	8.462268	.2536409	.6691991	.0163540
#2	.0188221	3.779272	8.686833	.2553254	.7003833	.0164008
#3	.0183362	3.760253	8.557453	.2489613	.6817782	.0158605

Elem	Li6707
Units	ppm
Avg	.0753285
Stddev	.0027843
%RSD	3.696241
#1	.0728227
#2	.0748370
#3	.0783259

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2089.731	21053.00	1962.228	1542.375	1949.504
Stddev	6.695	114.10	16.430	7.536	6.120
%RSD	.3203957	.5419455	.8372920	.4886041	.3139508
#1	2096.518	20924.36	1973.068	1535.251	1956.352
#2	2083.131	21141.95	1943.324	1550.265	1944.568
#3	2089.545	21092.70	1970.291	1541.609	1947.591

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: P5080-07DLX2 Acquired: 01/06/2025 0:18:00 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHLE5 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0240447	.0118366	.0664839	.0042674	.0178049	32.25986	.2925241
Stddev	.0064754	.0026508	.0060189	.0086321	.0045440	.16403	.0028484
%RSD	26.93088	22.39453	9.053126	202.2823	25.52095	.5084759	.9737284
#1	.0275500	.0129892	.0665484	.0085615	.0230389	32.17338	.2901604
#2	.0280119	.0137160	.0604330	-.005670	.0148680	32.15716	.2956866
#3	.0165723	.0088047	.0724702	.009910	.0155080	32.44904	.2917253

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0031024	.0014584	456.6846	.0729539	.0731632	.1714366	89.40388
Stddev	.0002279	.0000580	1.7895	.0032712	.0012922	.0055820	.55378
%RSD	7.344747	3.976238	.3918393	4.483995	1.766169	3.256029	.6194098
#1	.0032651	.0014528	457.1561	.0691838	.0731969	.1692678	89.61153
#2	.0028420	.0015190	454.7066	.0750410	.0718545	.1777775	88.77629
#3	.0032001	.0014035	458.1911	.0746369	.0744382	.1672644	89.82382

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.498901	43.13528	.0724256	-.007212	1.199473	.0780294	.1742541
Stddev	.024389	.45676	.0000589	.001723	.030667	.0023009	.0043932
%RSD	.6970414	1.058897	.0813373	23.88918	2.556679	2.948735	2.521168
#1	3.507222	43.36103	.0723831	-.005233	1.183658	.0758218	.1696268
#2	3.471441	42.60961	.0724928	-.008377	1.179943	.0778531	.1783682
#3	3.518041	43.43521	.0724008	-.008026	1.234819	.0804134	.1747673

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.275929	2.267813	-.146695	.0053945	.9362382	7.099269	.0190128
Stddev	.208819	.012345	.001715	.0008410	.0047111	.120490	.0016291
%RSD	3.327298	.5443505	1.168782	15.59042	.5031956	1.697222	8.568514
#1	6.036777	2.265634	-.145823	.0059891	.9415461	6.974358	.0203388
#2	6.368856	2.256703	-.148670	.0057623	.9325528	7.108657	.0171943
#3	6.422153	2.281102	-.145592	.0044323	.9346158	7.214790	.0195055

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: P5080-07DLX2 Acquired: 01/06/2025 0:18:00 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHLE5 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	1.272570	.3592114	.0772851
Stddev	.015522	.0025254	.0029272
%RSD	1.219705	.7030404	3.787554
#1	1.263074	.3580557	.0759051
#2	1.264154	.3574707	.0806473
#3	1.290482	.3621079	.0753030

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1813.022	18244.75	1739.885	1328.772	1765.216
Stddev	4.749	356.78	18.085	24.230	7.291
%RSD	.2619260	1.955548	1.039453	1.823454	.4130164
#1	1807.539	18586.56	1732.999	1352.484	1759.895
#2	1815.845	17874.68	1760.401	1304.056	1773.526
#3	1815.681	18273.00	1726.253	1329.775	1762.226

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: PB165861BL Acquired: 01/06/2025 0:22:47 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: PBS861 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.005659	.0021709	.0009265	.0036477	.0023973	-.025271	-.001376
Stddev	.003837	.0036446	.0046095	.0054926	.0021282	.040913	.002702
%RSD	67.81170	167.8806	497.5247	150.5750	88.77510	161.8989	196.3425
#1	-.009078	.0056050	.0041524	.0088947	.0016000	.009643	-.004464
#2	-.001509	.0025606	-.004353	.0041098	.0007829	-.015166	-.000217
#3	-.006389	-.001653	.002980	-.002061	.0048090	-.070290	.000553

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000732	-.000090	.0048696	-.000487	.0004582	-.004367	.0296829
Stddev	.0001122	.000110	.0116643	.000751	.0001994	.008685	.0476991
%RSD	153.2603	122.6329	239.5320	154.2752	43.52599	198.8650	160.6952
#1	.0000445	-.000018	-.002506	-.000256	.0002383	.004523	-.014729
#2	-.000022	-.000035	.018317	.000122	.0005088	-.012831	.080100
#3	.000197	-.000216	-.001203	-.001327	.0006274	-.004794	.023677

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0011988	.0848460	.0006940	-.000552	-.008407	-.013211	.0041395
Stddev	.0021855	.0301266	.0006448	.002415	.026932	.004020	.0001306
%RSD	182.3060	35.50739	92.92043	437.3334	320.3599	30.42649	3.155180
#1	.0021050	.0800742	-.000050	-.001853	-.010249	-.013045	.0041582
#2	.0027855	.1170738	.001092	.002234	.019399	-.017312	.0040005
#3	-.001294	.0573901	.001040	-.002037	-.034370	-.009277	.0042597

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0050978	-.003904	.0009439	-.000704	-.000489	.0011406	-.002025
Stddev	.1885675	.001611	.0026641	.000448	.001253	.0007281	.000789
%RSD	3698.970	41.25220	282.2399	63.69020	255.9944	63.83527	38.96501
#1	-.122843	-.004038	-.002131	-.000187	-.001848	.0012794	-.002784
#2	-.083513	-.002231	.002547	-.000984	.000621	.0003531	-.001209
#3	.221650	-.005443	.002417	-.000939	-.000241	.0017893	-.002082

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: PB165861BL Acquired: 01/06/2025 0:22:47 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: PBS861 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	-.005478	.0001493	.0016805
Stddev	.002054	.0003399	.0085265
%RSD	37.48727	227.6093	507.3844
#1	-.005608	.0004543	.0051298
#2	-.003363	-.000217	-.008030
#3	-.007464	.000211	.007942

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1790.892	17955.54	1674.381	1318.945	2012.495
Stddev	1.811	144.65	18.629	11.696	1.997
%RSD	.1011207	.8055789	1.112618	.8867834	.0992101
#1	1792.908	17791.48	1690.893	1307.836	2013.508
#2	1790.368	18010.45	1678.066	1317.849	2010.195
#3	1789.401	18064.69	1654.185	1331.151	2013.782

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: PB165861BS Acquired: 01/06/2025 0:26:49 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: LCS861 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0193909	.0489720	.0183471	.0638646	.1048023	.3997212
Stddev	.0037112	.0015561	.0026523	.0043370	.0011274	.0317769
%RSD	19.13876	3.177535	14.45653	6.790861	1.075784	7.949769
#1	.0151410	.0489763	.0156961	.0643116	.1056451	.4346641
#2	.0210402	.0474137	.0210008	.0679608	.1035216	.3725535
#3	.0219916	.0505259	.0183442	.0593215	.1052403	.3919459

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3868300	.0103200	.0093122	9.802809	.0199097	.0971908
Stddev	.0016373	.0001453	.0000782	.004994	.0010723	.0005911
%RSD	.4232483	1.407917	.8399753	.0509458	5.385546	.6081778
#1	.3874329	.0104873	.0092266	9.807330	.0200289	.0965535
#2	.3880803	.0102253	.0093302	9.803648	.0187829	.0977210
#3	.3849768	.0102474	.0093799	9.797448	.0209174	.0972979

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0415037	.1961100	.0311254	10.14772	.0758517	.0184295
Stddev	.0029761	.0343135	.0034137	.07275	.0002535	.0006939
%RSD	7.170587	17.49710	10.96761	.7169184	.3342228	3.765128
#1	.0411076	.1613960	.0272144	10.08697	.0759370	.0183974
#2	.0387456	.2300086	.0335069	10.12785	.0755665	.0177522
#3	.0446580	.1969253	.0326548	10.22834	.0760516	.0191388

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.620052	.1047147	.1163513	9.370269	.0159427	F -.001212
Stddev	.043228	.0020892	.0013164	.252322	.0031974	.003865
%RSD	.5672911	1.995168	1.131420	2.692789	20.05573	318.9744
#1	7.633690	.1024359	.1178590	9.207723	.0135746	.000426
#2	7.654816	.1065399	.1157651	9.242137	.0195798	.001565
#3	7.571650	.1051682	.1154298	9.660946	.0146737	-.005625

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: PB165861BS Acquired: 01/06/2025 0:26:49 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: LCS861 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0183926	.1733043	F .4761981	.0113764	.1828354	.2035061
Stddev	.0008831	.0051011	.0064628	.0031629	.0032308	.0012789
%RSD	4.801199	2.943417	1.357164	27.80257	1.767030	.6284545
#1	.0194122	.1677471	.4757307	.0143649	.1837586	.2020352
#2	.0178939	.1743921	.4828819	.0117003	.1792435	.2043550
#3	.0178716	.1777738	.4699817	.0080640	.1855040	.2041283

Elem	Li6707
Units	ppm
Avg	.0351507
Stddev	.0028593
%RSD	8.134440
#1	.0319964
#2	.0358832
#3	.0375725

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1778.421	17750.95	1663.929	1302.884	1981.755
Stddev	.563	60.43	5.276	11.108	1.438
%RSD	.0316471	.3404492	.3170914	.8525493	.0725441
#1	1778.186	17782.14	1660.420	1299.386	1983.018
#2	1778.013	17789.42	1661.370	1315.319	1980.190
#3	1779.063	17681.30	1669.997	1293.946	1982.057

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: CCV117 Acquired: 01/06/2025 0:30:46 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV117 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.070023	4.930349	25.14236	5.022478	4.984169	408.7015	10.30319
Stddev	.009279	.009922	.04946	.009627	.004686	1.6907	.03415
%RSD	.1830156	.2012401	.1967112	.1916795	.0940170	.4136878	.3314688
#1	5.069499	4.919740	25.08639	5.032989	4.989225	409.6773	10.28017
#2	5.079552	4.939399	25.18017	5.014089	4.983311	406.7492	10.28698
#3	5.061016	4.931908	25.16052	5.020356	4.979971	409.6781	10.34243

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5218963	2.526224	413.5034	15.78613	2.544067	15.43129	412.7731
Stddev	.0047328	.005380	1.3124	.01905	.002117	.04466	2.1121
%RSD	.9068478	.2129819	.3173811	.1206528	.0832175	.2893890	.5116759
#1	.5261441	2.520128	413.4358	15.76475	2.541760	15.47069	413.1936
#2	.5227500	2.530309	412.2262	15.79238	2.545921	15.38278	410.4824
#3	.5167947	2.528235	414.8483	15.80127	2.544521	15.44040	414.6432

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	15.21878	411.8498	2.547854	1.276341	424.4735	2.535372	15.09905
Stddev	.08813	.7513	.003258	.005219	2.9571	.011060	.02198
%RSD	.5790671	.1824215	.1278853	.4089411	.6966509	.4362159	.1455572
#1	15.23661	411.8075	2.544571	1.280455	424.5893	2.541715	15.07786
#2	15.12310	411.1205	2.551087	1.278099	421.4602	2.522602	15.09757
#3	15.29663	412.6213	2.547905	1.270470	427.3710	2.541799	15.12174

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	156.7577	5.068894	4.515943	4.938434	5.085912	5.125645	5.104806
Stddev	.2052	.019712	.032572	.004626	.018410	.038502	.006474
%RSD	.1308823	.3888843	.7212686	.0936732	.3619879	.7511680	.1268201
#1	156.6678	5.053196	4.548948	4.936400	5.065996	5.168823	5.098052
#2	156.6128	5.091017	4.515058	4.943729	5.089431	5.113231	5.110958
#3	156.9924	5.062469	4.483822	4.935174	5.102309	5.094882	5.105406

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: CCV117 Acquired: 01/06/2025 0:30:46 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV117 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	5.086582	4.868402	5.142289
Stddev	.015386	.017728	.012558
%RSD	.3024775	.3641525	.2442155
#1	5.093501	4.875683	5.133741
#2	5.068951	4.848192	5.136420
#3	5.097293	4.881331	5.156708

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1483.342	15854.23	1546.056	1081.479	1590.425
Stddev	.702	69.18	8.422	5.442	4.037
%RSD	.0473440	.4363432	.5447096	.5031641	.2538228
#1	1483.338	15889.88	1536.612	1085.555	1595.038
#2	1484.046	15898.32	1552.785	1083.583	1588.695
#3	1482.642	15774.50	1548.772	1075.300	1587.541

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: CCB117 Acquired: 01/06/2025 0:34:32 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB117 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.003824	-.001396	.0020116	.0122444	.0022861	.0140938	-.002775
Stddev	.003924	.001034	.0014676	.0047681	.0019942	.0428635	.000556
%RSD	102.6027	74.03160	72.95827	38.94148	87.22794	304.1293	20.02297
#1	-.005236	-.001908	.0036987	.0153656	.0045767	.0625210	-.003001
#2	.000610	-.000207	.0013064	.0146117	.0009371	-.018973	-.002142
#3	-.006848	-.002075	.0010296	.0067558	.0013446	-.001267	-.003182

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000257	.0000488	.0177518	.0000713	.0003065	.0058890	.0368929
Stddev	.0001319	.0000201	.0172692	.0003663	.0002046	.0109845	.0417340
%RSD	512.4974	41.20322	97.28103	513.4247	66.75083	186.5256	113.1221
#1	.0001772	.0000285	.0104383	-.000344	.0004272	.0177140	.0223157
#2	-.000037	.0000492	.0053428	.000349	.0004219	-.003997	.0839603
#3	-.000063	.0000687	.0374743	.000209	.0000703	.003950	.0044026

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0023127	-.019011	-.000751	.0002717	.1838031	-.015378	.0045955
Stddev	.0008999	.084259	.000485	.0018913	.0234696	.009646	.0005886
%RSD	38.90951	443.2070	64.53246	696.1837	12.76889	62.72142	12.80924
#1	.0023571	.034952	-.000195	.0023554	.1704524	-.026281	.0050342
#2	.0031896	.024118	-.001087	-.001336	.2109025	-.011901	.0048258
#3	.0013915	-.116104	-.000970	-.000204	.1700543	-.007954	.0039265

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1326485	-.002680	.0111859	-.000509	-.000268	.0005213	-.000426
Stddev	.2182391	.001295	.0052624	.000561	.001311	.0005898	.001925
%RSD	164.5244	48.31397	47.04478	110.1788	489.6760	113.1379	451.5675
#1	-.109148	-.003690	.0086557	.000138	-.000756	.0003883	.001705
#2	.315021	-.003130	.0172355	-.000855	.001218	.0011663	-.000945
#3	.192072	-.001220	.0076666	-.000809	-.001265	.0000094	-.002039

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: CCB117 Acquired: 01/06/2025 0:34:32 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB117 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	-.009171	.0000963	.0096658
Stddev	.001981	.0001890	.0025102
%RSD	21.60034	196.2377	25.96976
#1	-.007145	-.000118	.0113736
#2	-.011103	.000165	.0108402
#3	-.009266	.000241	.0067837

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1784.602	17868.78	1672.980	1305.052	1994.367
Stddev	1.356	82.17	7.221	6.778	2.407
%RSD	.0759692	.4598511	.4315981	.5193902	.1206955
#1	1784.059	17785.81	1674.304	1300.703	1992.695
#2	1783.602	17870.39	1665.189	1301.591	1997.126
#3	1786.145	17950.13	1679.447	1312.862	1993.280

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: PB165842BL Acquired: 01/06/2025 0:39:33 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: PBS842 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.005372	-.001854	.0004400	.0095627	.0016355	-.000280	-.001816
Stddev	.002038	.003221	.0024154	.0031595	.0036506	.017156	.004418
%RSD	37.94079	173.6691	548.9970	33.03950	223.2148	6133.267	243.3077
#1	-.007715	-.000374	-.002165	.0121108	-.000278	-.005298	-.002147
#2	-.004005	.000360	.000880	.0105498	-.000660	-.014367	-.006059
#3	-.004397	-.005549	.002605	.0060275	.005845	.018826	.002759

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001600	-.000066	.0514583	-.000519	.0002855	-.010659	-.004140
Stddev	.0001209	.000060	.0449966	.000184	.0004043	.005217	.016660
%RSD	75.57703	89.73193	87.44285	35.50754	141.6104	48.94847	402.4388
#1	.0000346	.000002	.1006314	-.000602	.0007522	-.010310	-.021033
#2	.0002758	-.000107	.0123390	-.000646	.0000434	-.016042	.012277
#3	.0001696	-.000094	.0414045	-.000308	.0000609	-.005625	-.003664

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0022180	.0385774	.0005727	.0000596	.0692320	-.010756	.0011850
Stddev	.0015615	.1054833	.0004574	.0016447	.0148360	.014985	.0004693
%RSD	70.39896	273.4327	79.86053	2761.551	21.42940	139.3168	39.60122
#1	.0013858	.0135344	.0009737	.0016016	.0548963	-.010990	.0006444
#2	.0040193	.1543286	.0006699	.0002484	.0682776	.004344	.0014882
#3	.0012489	-.052131	.0000745	-.001671	.0845222	-.025622	.0014223

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0944460	-.000006	.0057556	-.000363	-.000492	-.000528	-.000576
Stddev	.0435900	.001164	.0020069	.000648	.003206	.001541	.002152
%RSD	46.15333	19439.61	34.86777	178.8188	651.3608	291.8756	373.8152
#1	.1363116	-.000429	.0038942	.000049	.003125	-.001678	-.000392
#2	.0493153	.001310	.0078817	-.000027	-.002980	-.001128	.001479
#3	.0977110	-.000900	.0054911	-.001110	-.001621	.001223	-.002814

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: PB165842BL Acquired: 01/06/2025 0:39:33 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: PBS842 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	-.002929	.0001724	.0044850
Stddev	.005516	.0001577	.0013881
%RSD	188.2945	91.47994	30.95002
#1	.003261	.0001087	.0028908
#2	-.004727	.0000565	.0051379
#3	-.007322	.0003519	.0054263

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1789.501	17854.20	1663.625	1307.224	2001.919
Stddev	2.795	60.94	16.793	9.009	3.163
%RSD	.1561951	.3413247	1.009417	.6891608	.1579776
#1	1792.231	17790.45	1655.463	1296.847	2003.655
#2	1786.645	17860.26	1682.939	1313.037	1998.268
#3	1789.628	17911.88	1652.474	1311.789	2003.833

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: PB165842BS Acquired: 01/06/2025 0:43:34 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: LCS842 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0210859	.0478009	.0205930	.0617574	.1040069	.3951399
Stddev	.0070060	.0047280	.0028031	.0039647	.0032276	.0242095
%RSD	33.22633	9.891040	13.61193	6.419734	3.103209	6.126819
#1	.0291656	.0424849	.0221707	.0574568	.1076935	.4148160
#2	.0173971	.0515357	.0222518	.0652668	.1016905	.4024988
#3	.0166949	.0493820	.0173566	.0625487	.1026367	.3681048

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3788973	.0102303	.0091902	9.644046	.0197001	.0961305
Stddev	.0016985	.0001650	.0000881	.087030	.0007385	.0005281
%RSD	.4482699	1.613279	.9583140	.9024209	3.748700	.5493805
#1	.3806551	.0104208	.0091126	9.712771	.0204087	.0958152
#2	.3772651	.0101375	.0092859	9.546187	.0189349	.0958361
#3	.3787716	.0101326	.0091722	9.673181	.0197567	.0967402

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0459446	.1972975	.0318355	9.876763	.0746608	.0184599
Stddev	.0192307	.0166786	.0030725	.129969	.0013008	.0008523
%RSD	41.85623	8.453530	9.651056	1.315909	1.742315	4.617145
#1	.0506368	.2099659	.0334040	9.962037	.0743670	.0181080
#2	.0623949	.1784011	.0282954	9.727176	.0735320	.0194319
#3	.0248020	.2035256	.0338072	9.941077	.0760834	.0178399

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.457447	.1008357	.1135866	9.142892	.0170954	F .0023718
Stddev	.060740	.0089705	.0004026	.112297	.0022300	.0025468
%RSD	.8144814	8.896189	.3543994	1.228245	13.04422	107.3785
#1	7.492062	.0937518	.1132337	9.234087	.0145566	.0051075
#2	7.387314	.0978330	.1135011	9.017462	.0179924	.0000695
#3	7.492967	.1109224	.1140251	9.177127	.0187371	.0019384

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: PB165842BS Acquired: 01/06/2025 0:43:34 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: LCS842 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0189107	.1736810	F .4654717	.0125427	.1804667	.1988623
Stddev	.0009702	.0061878	.0054429	.0002500	.0043478	.0014998
%RSD	5.130397	3.562756	1.169337	1.993402	2.409180	.7541850
#1	.0199531	.1783200	.4716193	.0126713	.1824237	.2005159
#2	.0187450	.1760677	.4635296	.0127021	.1754843	.1984812
#3	.0180341	.1666552	.4612661	.0122545	.1834920	.1975899

Elem	Li6707
Units	ppm
Avg	.0341131
Stddev	.0052295
%RSD	15.33000
#1	.0286683
#2	.0390968
#3	.0345741

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1782.966	17890.49	1680.853	1315.228	1986.269
Stddev	2.956	105.68	10.408	6.204	3.446
%RSD	.1658043	.5907214	.6191805	.4716954	.1735094
#1	1786.052	18008.97	1669.008	1321.603	1989.916
#2	1782.686	17805.93	1688.536	1314.872	1985.823
#3	1780.159	17856.56	1685.014	1309.211	1983.067

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: PB165841BL Acquired: 01/06/2025 0:47:30 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: PBS841 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000974	-.000776	.0039394	.0075205	.0021202	.0163478	-.003186
Stddev	.0030704	.001552	.0018371	.0006216	.0033761	.0197420	.002996
%RSD	3150.893	200.0495	46.63413	8.265394	159.2330	120.7624	94.01667
#1	.0015710	-.002143	.0034557	.0072567	.0014075	.0257325	-.003694
#2	.0021533	.000911	.0059700	.0082305	.0057958	.0296470	.000031
#3	-.003432	-.001096	.0023926	.0070744	-.000843	-.006336	-.005896

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002393	.0000847	-.039518	-.000115	.0001656	-.000118	.0253822
Stddev	.0000962	.0000777	.048490	.000500	.0006613	.008050	.0541055
%RSD	40.19504	91.76099	122.7030	434.6220	399.3757	6804.935	213.1632
#1	.0003066	.0001536	-.084424	.000318	.0001943	-.008620	-.036705
#2	.0002822	.0000005	.011898	-.000002	.0008120	.007386	.050401
#3	.0001291	.0000999	-.046028	-.000662	-.000510	.000879	.062450

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0018588	.0762098	-.000462	-.000456	.0559410	-.017994	.0006654
Stddev	.0007765	.0625665	.000788	.001474	.0105000	.011958	.0009308
%RSD	41.77307	82.09773	170.6474	322.8982	18.76981	66.45530	139.8796
#1	.0009831	.0789132	.000447	.000261	.0463286	-.030442	-.000035
#2	.0021301	.0123354	-.000966	.000521	.0543479	-.006595	.000310
#3	.0024633	.1373808	-.000867	-.002152	.0671465	-.016946	.001722

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0821645	-.000534	.0001257	-.000830	-.003644	.0011275	-.000603
Stddev	.1585933	.000930	.0017547	.000738	.004444	.0008225	.000278
%RSD	193.0194	174.1134	1395.652	88.99634	121.9434	72.95015	46.02142
#1	.2513470	-.000028	.0006545	-.001674	-.008255	.0017650	-.000390
#2	.0582758	.000033	.0015553	-.000303	-.003289	.0001991	-.000502
#3	-.063129	-.001607	-.001833	-.000512	.000612	.0014184	-.000917

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: PB165841BL Acquired: 01/06/2025 0:47:30 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: PBS841 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.0007597	.0001479	.0054483
Stddev	.0074638	.0003328	.0063009
%RSD	982.4358	224.9868	115.6500
#1	.0088059	.0003473	.0076121
#2	-.005938	-.000236	.0103821
#3	-.000589	.000333	-.001649

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1770.408	17703.99	1649.236	1301.285	1983.041
Stddev	1.346	40.26	12.952	.554	2.726
%RSD	.0760333	.2273890	.7853542	.0425391	.1374646
#1	1770.341	17698.11	1638.303	1301.869	1980.659
#2	1769.098	17666.99	1645.863	1301.217	1986.014
#3	1771.787	17746.86	1663.541	1300.768	1982.450

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: PB165841BS Acquired: 01/06/2025 0:51:30 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: LCS841 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0174040	.0486135	.0232761	.0682278	.1038257	.4017339
Stddev	.0021378	.0005100	.0003971	.0083927	.0023986	.0225342
%RSD	12.28332	1.049192	1.706097	12.30094	2.310188	5.609238
#1	.0149531	.0484076	.0234864	.0706547	.1028351	.3943998
#2	.0183741	.0491943	.0228180	.0751395	.1020811	.4270215
#3	.0188847	.0482385	.0235237	.0588891	.1065609	.3837803

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3830362	.0102551	.0092219	9.633760	.0199162	.0959364
Stddev	.0037784	.0002790	.0000989	.055197	.0005796	.0004808
%RSD	.9864390	2.720815	1.072100	.5729575	2.910335	.5011254
#1	.3826953	.0104085	.0093300	9.571824	.0192535	.0953949
#2	.3869735	.0104237	.0091360	9.651699	.0203287	.0961013
#3	.3794398	.0099330	.0091997	9.677756	.0201664	.0963130

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0415006	.2458110	.0324736	10.02992	.0757081	.0183521
Stddev	.0176723	.0144772	.0013693	.09146	.0008239	.0011159
%RSD	42.58321	5.889549	4.216626	.9119134	1.088250	6.080323
#1	.0311389	.2606530	.0337121	10.04078	.0766524	.0176085
#2	.0619060	.2317286	.0327057	9.93351	.0751361	.0178126
#3	.0314569	.2450515	.0310031	10.11547	.0753357	.0196352

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.547352	.0910576	.1129203	9.340504	.0180660	F -.001854
Stddev	.072713	.0102335	.0008352	.170377	.0019123	.001737
%RSD	.9634178	11.23849	.7396027	1.824071	10.58527	93.69854
#1	7.555911	.1027852	.1136416	9.170264	.0194207	-.001852
#2	7.615406	.0839400	.1131140	9.511019	.0158785	-.003593
#3	7.470738	.0864476	.1120053	9.340228	.0188988	-.000118

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: PB165841BS Acquired: 01/06/2025 0:51:30 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: LCS841 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0182618	.1691134	F .4705146	.0113036	.1793004	.2012278
Stddev	.0005621	.0062820	.0047559	.0012745	.0031345	.0010016
%RSD	3.077796	3.714643	1.010779	11.27510	1.748201	.4977324
#1	.0185651	.1619107	.4723893	.0099719	.1760822	.2010298
#2	.0186070	.1734591	.4740474	.0125119	.1794752	.2023136
#3	.0176132	.1719705	.4651071	.0114269	.1823440	.2003400

Elem	Li6707
Units	ppm
Avg	.0367533
Stddev	.0056865
%RSD	15.47200
#1	.0320298
#2	.0430651
#3	.0351650

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1776.625	17730.08	1654.603	1303.283	1976.002
Stddev	6.871	51.00	15.157	4.110	7.765
%RSD	.3867702	.2876516	.9160380	.3153205	.3929521
#1	1769.014	17709.67	1651.157	1298.563	1967.280
#2	1778.490	17788.13	1641.465	1305.225	1978.562
#3	1782.372	17692.44	1671.186	1306.062	1982.163

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: PB165850BL Acquired: 01/06/2025 0:55:28 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: PBS850 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0052879	-.001504	.0016601	.0098946	.0000740	-.009760	-.006799
Stddev	.0028320	.004379	.0022685	.0023442	.0016221	.020749	.003313
%RSD	53.55604	291.1561	136.6518	23.69206	2191.166	212.5892	48.73136
#1	.0068212	-.006463	.0001005	.0104892	-.001194	-.022535	-.005860
#2	.0020199	.000120	.0006172	.0073103	-.000486	-.020927	-.004057
#3	.0070227	.001831	.0042625	.0118843	.001902	.014181	-.010481

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000075	-.000035	.0275887	-.000449	.0002112	-.016342	-.002181
Stddev	.0001505	.000118	.0709542	.000725	.0003162	.010604	.023012
%RSD	2019.365	333.7465	257.1859	161.3150	149.6665	64.88765	1055.120
#1	-.000164	-.000161	.0662324	.000315	.0002480	-.004782	-.013671
#2	.000118	-.000017	.0708327	-.000535	.0005074	-.018626	-.017185
#3	.000069	.000072	-.054299	-.001128	-.000122	-.025617	.024314

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0020420	.0296222	.0001551	-.000304	.0333725	-.011089	-.000473
Stddev	.0016129	.0637859	.0008361	.002414	.0157105	.011829	.000241
%RSD	78.98499	215.3316	539.2590	794.1574	47.07621	106.6756	51.05040
#1	.0035903	-.038815	-.000592	.002175	.0310043	.000492	-.000416
#2	.0003715	.087418	.001058	-.000440	.0189805	-.010607	-.000737
#3	.0021643	.040264	-.000000	-.002647	.0501326	-.023152	-.000265

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.024234	-.000434	.0016294	-.000536	-.002833	.0003799	-.001895
Stddev	.178924	.002718	.0022147	.000910	.005135	.0007933	.001415
%RSD	738.3133	626.2314	135.9207	169.5835	181.2649	208.8089	74.64276
#1	.002278	.002227	.0015402	.000361	-.004318	.0002048	-.000618
#2	-.214935	-.000324	.0038874	-.001458	.002881	.0012461	-.003416
#3	.139954	-.003205	-.000539	-.000513	-.007062	-.000311	-.001652

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: PB165850BL Acquired: 01/06/2025 0:55:28 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: PBS850 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	-.003241	.0002584	.0015343
Stddev	.007055	.0001246	.0038451
%RSD	217.7014	48.22715	250.6129
#1	-.001785	.0001190	.0022246
#2	-.010910	.0003590	.0049875
#3	.002973	.0002972	-.002609

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1783.483	17866.29	1654.243	1316.117	1998.244
Stddev	10.667	49.91	25.764	6.950	8.214
%RSD	.5981120	.2793524	1.557469	.5280887	.4110801
#1	1776.173	17894.19	1674.005	1321.207	1992.870
#2	1795.724	17808.67	1625.103	1308.199	2007.700
#3	1778.553	17896.02	1663.621	1318.946	1994.163

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: PB165850BS Acquired: 01/06/2025 0:59:29 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: LCS850 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0164064	.0483793	.0204172	.0625179	.1081170	.3973163
Stddev	.0050165	.0015211	.0027542	.0042249	.0022789	.0364905
%RSD	30.57651	3.144035	13.48953	6.757915	2.107804	9.184233
#1	.0217789	.0496697	.0201058	.0658964	.1054880	.4123271
#2	.0155956	.0467022	.0233139	.0577808	.1093331	.3557146
#3	.0118447	.0487660	.0178320	.0638765	.1095300	.4239073

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3885063	.0104221	.0094379	9.855508	.0199786	.0980007
Stddev	.0017484	.0001524	.0001162	.054076	.0007149	.0005012
%RSD	.4500395	1.462348	1.230928	.5486913	3.578311	.5113973
#1	.3904634	.0105432	.0093304	9.914983	.0193910	.0977813
#2	.3870982	.0104723	.0094222	9.842242	.0207745	.0985742
#3	.3879574	.0102510	.0095612	9.809299	.0197702	.0976467

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0459613	.1890516	.0326416	10.14572	.0759598	.0185909
Stddev	.0063050	.0342802	.0033074	.14204	.0008124	.0014390
%RSD	13.71798	18.13271	10.13251	1.400046	1.069493	7.740557
#1	.0469047	.1498742	.0315122	10.25700	.0758177	.0188487
#2	.0392378	.2135375	.0300469	9.98573	.0752278	.0198836
#3	.0517414	.2037429	.0363658	10.19443	.0768338	.0170403

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.638446	.1038537	.1158847	9.240291	.0177506	F .0011886
Stddev	.097004	.0137500	.0005730	.339155	.0006912	.0025858
%RSD	1.269950	13.23975	.4944345	3.670392	3.893854	217.5439
#1	7.747201	.1194619	.1153537	8.861387	.0169744	.0035736
#2	7.607286	.0935295	.1158085	9.344012	.0179779	.0015520
#3	7.560851	.0985699	.1164920	9.515474	.0182995	-.001560

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: PB165850BS Acquired: 01/06/2025 0:59:29 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: LCS850 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0186121	.1733951	F .4757886	.0116749	.1849255	.2044280
Stddev	.0005263	.0009206	.0037774	.0005778	.0006614	.0006291
%RSD	2.827438	.5309073	.7939191	4.948914	.3576774	.3077408
#1	.0187665	.1725861	.4800833	.0121443	.1843398	.2046572
#2	.0180259	.1732025	.4743005	.0118509	.1847938	.2037164
#3	.0190439	.1743968	.4729818	.0110296	.1856429	.2049103

Elem	Li6707
Units	ppm
Avg	.0337985
Stddev	.0069895
%RSD	20.67976
#1	.0307099
#2	.0418002
#3	.0288855

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1804.919	17999.65	1691.272	1322.109	2008.486
Stddev	1.908	2.58	15.960	2.485	1.799
%RSD	.1057214	.0143201	.9436754	.1879907	.0895597
#1	1806.839	18000.75	1675.498	1324.716	2008.631
#2	1804.896	17996.70	1690.905	1319.766	2006.619
#3	1803.023	18001.49	1707.412	1321.845	2010.208

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: PB165840BL Acquired: 01/06/2025 1:03:26 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: PBS840 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.001736	-.002203	-.000354	.0046703	-.001071	.0118751	-.003330
Stddev	.004933	.002494	.001349	.0028145	.002534	.0259686	.001579
%RSD	284.1463	113.2030	380.8151	60.26289	236.6597	218.6816	47.40894
#1	-.006159	-.000005	.000375	.0054747	-.000800	-.015424	-.004621
#2	.003584	-.001691	-.001911	.0015412	.001317	.036269	-.001570
#3	-.002634	-.004913	.000473	.0069950	-.003729	.014779	-.003800

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000396	-.000011	.0293457	-.000739	.0000910	-.015694	-.009662
Stddev	.0000874	.000094	.0474429	.000672	.0003832	.007517	.013080
%RSD	220.3941	883.7476	161.6690	91.00757	421.2985	47.89640	135.3758
#1	-.000011	-.000060	-.015278	-.000123	-.000349	-.024121	-.024763
#2	.000141	.000097	.024137	-.001456	.000355	-.013277	-.001936
#3	-.000010	-.000069	.079178	-.000638	.000267	-.009683	-.002286

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0039092	.0111311	-.000186	-.000571	.0204829	-.013654	.0000510
Stddev	.0015349	.0287964	.000461	.001463	.0172539	.012355	.0004648
%RSD	39.26284	258.7022	247.7985	256.1308	84.23569	90.48807	910.7395
#1	.0022697	.0129671	-.000624	.001116	.0309203	-.027919	-.000296
#2	.0053120	.0389655	.000295	-.001330	.0005675	-.006695	.000579
#3	.0041460	-.018539	-.000228	-.001500	.0299607	-.006348	-.000129

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1442580	-.003995	.0018313	-.000151	.0000175	.0011596	-.003715
Stddev	.2275537	.001448	.0015810	.001136	.0037847	.0004418	.001322
%RSD	157.7408	36.23363	86.33420	751.5727	21668.35	38.09843	35.57325
#1	-.028494	-.005361	.0036151	.001156	.0000191	.0011644	-.002789
#2	.059175	-.002478	.0006032	-.000903	-.003768	.0015990	-.005229
#3	.402093	-.004148	.0012755	-.000707	.003801	.0007154	-.003128

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: PB165840BL Acquired: 01/06/2025 1:03:26 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: PBS840 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	-.005888	.0000851	.0006511
Stddev	.007714	.0002484	.0032221
%RSD	131.0188	292.0650	494.8767
#1	-.001514	.0001062	-.002765
#2	-.001354	-.000173	.001082
#3	-.014795	.000322	.003636

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1782.116	17805.97	1670.059	1312.147	1997.501
Stddev	5.237	42.37	9.118	1.058	2.872
%RSD	.2938870	.2379314	.5459834	.0806542	.1438009
#1	1777.173	17759.73	1659.642	1311.415	1994.401
#2	1787.605	17842.91	1673.941	1311.665	2000.073
#3	1781.569	17815.28	1676.593	1313.360	1998.029

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: PB165840BS Acquired: 01/06/2025 1:07:27 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: LCS840 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0178617	.0492141	.0191766	.0635239	.1014685	.3969288
Stddev	.0022461	.0020522	.0050624	.0031265	.0017705	.0442607
%RSD	12.57521	4.169845	26.39892	4.921797	1.744894	11.15080
#1	.0157085	.0473873	.0212717	.0600716	.1007982	.3609631
#2	.0176860	.0488204	.0228552	.0643357	.1034763	.4463578
#3	.0201905	.0514345	.0134030	.0661645	.1001310	.3834654

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3893299	.0104725	.0095396	9.903017	.0197032	.0983614
Stddev	.0078810	.0002774	.0000624	.023762	.0005095	.0004953
%RSD	2.024252	2.648497	.6536957	.2399496	2.585748	.5035806
#1	.3818521	.0107855	.0094860	9.891543	.0196759	.0987844
#2	.3975602	.0103746	.0096080	9.887168	.0202258	.0978165
#3	.3885773	.0102573	.0095247	9.930338	.0192079	.0984833

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0399955	.2468658	.0317921	10.10700	.0756143	.0183940
Stddev	.0036981	.0489938	.0033361	.12172	.0005070	.0015348
%RSD	9.246367	19.84633	10.49335	1.204319	.6705320	8.344203
#1	.0358192	.2998327	.0354923	10.01822	.0750872	.0183204
#2	.0428551	.2031698	.0308701	10.24575	.0756571	.0199643
#3	.0413122	.2375950	.0290141	10.05702	.0760985	.0168972

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.712564	.1015154	.1155965	9.400872	.0186351	F -.000742
Stddev	.096608	.0093372	.0010844	.210548	.0014645	.003141
%RSD	1.252606	9.197847	.9380686	2.239663	7.858922	423.3151
#1	7.824107	.1122346	.1146785	9.442642	.0175339	-.001563
#2	7.658109	.0951517	.1153181	9.587404	.0202971	-.003391
#3	7.655475	.0971599	.1167930	9.172570	.0180742	.002728

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: PB165840BS Acquired: 01/06/2025 1:07:27 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: LCS840 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0186145	.1724228	F .4800997	.0107643	.1906087	.2051435
Stddev	.0006690	.0014310	.0021263	.0018040	.0030747	.0002657
%RSD	3.593798	.8299057	.4428847	16.75922	1.613101	.1295171
#1	.0178946	.1735464	.4823077	.0121269	.1897671	.2049560
#2	.0192170	.1729100	.4780659	.0114476	.1940166	.2054475
#3	.0187318	.1708118	.4799255	.0087185	.1880424	.2050268

Elem	Li6707
Units	ppm
Avg	.0306263
Stddev	.0048499
%RSD	15.83586
#1	.0284161
#2	.0361876
#3	.0272751

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1786.959	17849.61	1660.532	1313.687	1989.147
Stddev	3.252	13.66	11.640	2.250	3.018
%RSD	.1819609	.0765497	.7009734	.1712790	.1517192
#1	1787.412	17859.53	1647.405	1315.357	1988.114
#2	1789.961	17855.28	1669.593	1314.575	1992.546
#3	1783.506	17834.02	1664.599	1311.128	1986.781

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: P5126-06 Acquired: 01/06/2025 1:11:24 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMA1 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1714420	-.021827	4.572160	.0707270	.0522155	54.82293
Stddev	.0031193	.004640	.007527	.0049120	.0003817	.43578
%RSD	1.819444	21.25799	.1646253	6.944951	.7311095	.7948892
#1	.1749588	-.017096	4.564137	.0656220	.0522919	54.32026
#2	.1703573	-.026370	4.573276	.0711390	.0518013	55.09430
#3	.1690098	-.022015	4.579067	.0754199	.0525532	55.05423

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.843571	.0064073	.0077011	184.3173	.1753174	.1079632
Stddev	.014041	.0001156	.0001105	1.3420	.0015114	.0008755
%RSD	.7616155	1.804109	1.434362	.7280733	.8621059	.8108891
#1	1.837660	.0064032	.0078123	183.0363	.1749328	.1081480
#2	1.833452	.0062939	.0076996	184.2028	.1769840	.1087315
#3	1.859601	.0065250	.0075914	185.7129	.1740355	.1070101

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5959312	176.7499	8.744666	42.24924	.2247129	-.008961
Stddev	.0057439	1.5863	.093427	.36991	.0011034	.001320
%RSD	.9638438	.8974821	1.068389	.8755392	.4910249	14.72984
#1	.5938987	174.9917	8.652303	41.83972	.2259868	-.009820
#2	.5914799	177.1842	8.742574	42.34888	.2240969	-.009621
#3	.6024149	178.0738	8.839122	42.55913	.2240551	-.007441

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8972567	.1716351	2.832456	5.472926	F 13.93654	-.350048
Stddev	.0193058	.0038740	.017435	.187133	.02911	.004117
%RSD	2.151650	2.257090	.6155558	3.419253	.2089077	1.176230
#1	.8883010	.1738058	2.828809	5.330253	13.91457	-.354286
#2	.8840552	.1671624	2.851427	5.403720	13.92550	-.346063
#3	.9194140	.1739369	2.817133	5.684805	13.96956	-.349795

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: P5126-06 Acquired: 01/06/2025 1:11:24 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMA1 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0126178	3.714601	8.692311	.6260838	.9729802	.3025628
Stddev	.0011487	.009063	.052369	.0043543	.0070489	.0029664
%RSD	9.103629	.2439855	.6024755	.6954824	.7244618	.9804150
#1	.0122921	3.710065	8.676503	.6215170	.9651498	.2991378
#2	.0116671	3.725036	8.649667	.6301887	.9749718	.3043067
#3	.0138941	3.708701	8.750763	.6265457	.9788190	.3042440

Elem	Li6707
Units	ppm
Avg	.1002634
Stddev	.0020030
%RSD	1.997719
#1	.0979592
#2	.1012419
#3	.1015890

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2036.839	20362.01	1936.851	1491.863	1914.052
Stddev	4.608	97.73	7.286	9.731	2.646
%RSD	.2262130	.4799522	.3761861	.6522858	.1382529
#1	2041.351	20375.58	1942.222	1494.679	1915.970
#2	2032.141	20258.21	1939.773	1481.034	1911.033
#3	2037.026	20452.25	1928.557	1499.875	1915.152

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: P5126-07 Acquired: 01/06/2025 1:15:12 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMA2 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2524332	-.066787	2.198426	.1804444	.0893139	47.36591
Stddev	.0046365	.002405	.004352	.0063167	.0036150	1.01651
%RSD	1.836737	3.601397	.1979642	3.500638	4.047561	2.146082
#1	.2471318	-.069502	2.199289	.1769565	.0893813	46.70771
#2	.2557308	-.064921	2.202282	.1877360	.0928948	48.53666
#3	.2544371	-.065939	2.193707	.1766407	.0856656	46.85336

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.139222	.0077583	.0104828	260.9940	.1209500	.1149763
Stddev	.044400	.0001050	.0001363	5.5612	.0042876	.0003309
%RSD	2.075499	1.352895	1.299705	2.130779	3.544899	.2877631
#1	2.114283	.0076942	.0106373	257.3878	.1245674	.1146282
#2	2.190484	.0078795	.0103797	267.3986	.1220687	.1152867
#3	2.112899	.0077014	.0104315	258.1956	.1162140	.1150141

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4325266	374.4957	13.45378	55.46930	.2123220	-.023138
Stddev	.0161210	7.9639	.31696	1.01560	.0006600	.001719
%RSD	3.727173	2.126570	2.355895	1.830931	.3108513	7.429419
#1	.4161361	368.3998	13.23767	54.97479	.2115718	-.024279
#2	.4483639	383.5064	13.81763	56.63745	.2125809	-.023975
#3	.4330798	371.5809	13.30602	54.79566	.2128133	-.021161

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.018342	.1968134	2.489922	4.967502	F 14.82795	-.804206
Stddev	.018473	.0142435	.062784	.293743	.01179	.012035
%RSD	1.813995	7.237073	2.521537	5.913298	.0795433	1.496564
#1	.997013	.1943238	2.537386	4.990293	14.82121	-.800930
#2	1.028811	.2121377	2.513649	5.249186	14.82106	-.817541
#3	1.029203	.1839789	2.418732	4.663028	14.84156	-.794149

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: P5126-07 Acquired: 01/06/2025 1:15:12 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMA2 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0198426	2.781728	7.612681	.2244119	.6916166	.0608858
Stddev	.0002850	.007091	.147825	.0018266	.0144995	.0014785
%RSD	1.436473	.2548964	1.941829	.8139479	2.096468	2.428249
#1	.0195151	2.774801	7.533429	.2223055	.6819587	.0608246
#2	.0200346	2.788971	7.783233	.2255595	.7082896	.0623939
#3	.0199781	2.781411	7.521381	.2253706	.6846016	.0594389

Elem	Li6707
Units	ppm
Avg	.0896571
Stddev	.0035487
%RSD	3.958099
#1	.0868835
#2	.0884316
#3	.0936561

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2066.816	20927.95	1957.268	1527.927	1904.894
Stddev	11.378	536.88	26.825	33.787	9.451
%RSD	.5504956	2.565351	1.370520	2.211313	.4961492
#1	2079.538	20504.59	1974.603	1499.875	1915.600
#2	2063.293	20747.46	1926.370	1518.470	1901.377
#3	2057.616	21531.82	1970.832	1565.435	1897.706

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: P5126-08 Acquired: 01/06/2025 1:19:00 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMA3 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2981398	-.008889	10.58275	.0835171	.0431559	62.86892
Stddev	.0017338	.000417	.00689	.0071683	.0046167	.52653
%RSD	.5815282	4.685665	.0650838	8.583062	10.69777	.8375057
#1	.3001253	-.008930	10.57864	.0913789	.0400305	63.31756
#2	.2969251	-.008454	10.57890	.0773437	.0409786	62.28925
#3	.2973691	-.009284	10.59070	.0818286	.0484587	62.99995

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.620058	.0068176	.0119647	365.5483	.1790397	.1498047
Stddev	.029892	.0001249	.0001498	2.4171	.0006890	.0010899
%RSD	.6470092	1.831836	1.252208	.6612386	.3848604	.7275714
#1	4.642989	.0069299	.0118778	367.2267	.1796608	.1510456
#2	4.586250	.0066831	.0121377	362.7778	.1791598	.1490022
#3	4.630935	.0068396	.0118786	366.6404	.1782985	.1493663

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7820597	192.9023	16.05347	42.67925	.2455330	-.008968
Stddev	.0073898	1.4494	.10260	.26520	.0011652	.000038
%RSD	.9449115	.7513431	.6391417	.6213776	.4745574	.4275963
#1	.7899640	194.0483	16.13871	42.86377	.2463439	-.008924
#2	.7808913	191.2731	15.93959	42.37534	.2441977	-.008986
#3	.7753236	193.3856	16.08212	42.79864	.2460573	-.008994

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8557122	.2042636	4.983470	11.47888	F 16.30629	-.373065
Stddev	.0099792	.0085274	.018919	.15887	.00753	.009402
%RSD	1.166183	4.174696	.3796325	1.384041	.0462000	2.520287
#1	.8487485	.2140460	4.998801	11.59617	16.31480	-.362330
#2	.8512433	.2003438	4.989282	11.29808	16.30047	-.379837
#3	.8671447	.1984009	4.962327	11.54240	16.30360	-.377029

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: P5126-08 Acquired: 01/06/2025 1:19:00 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMA3 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0135527	5.104354	8.012938	.3384279	.9086154	.3186509
Stddev	.0005802	.007070	.084069	.0010575	.0038616	.0030557
%RSD	4.281274	.1385143	1.049171	.3124857	.4249924	.9589398
#1	.0135560	5.107656	7.945388	.3372532	.9128091	.3216056
#2	.0129708	5.096237	7.986335	.3393041	.9052066	.3155034
#3	.0141312	5.109169	8.107090	.3387263	.9078304	.3188438

Elem	Li6707
Units	ppm
Avg	.0959075
Stddev	.0049049
%RSD	5.114164
#1	.0934741
#2	.0926952
#3	.1015533

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2119.237	21116.28	2040.490	1546.879	1853.037
Stddev	1.371	141.64	16.264	13.293	.813
%RSD	.0647083	.6707421	.7970648	.8593536	.0438672
#1	2119.186	20959.27	2043.514	1532.500	1852.101
#2	2117.892	21155.14	2055.030	1549.415	1853.444
#3	2120.633	21234.43	2022.927	1558.721	1853.565

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: P5126-09 Acquired: 01/06/2025 1:22:46 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMA4 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3340442	-.010437	7.699211	.0836668	.0445978	65.12012
Stddev	.0069109	.005103	.021461	.0028432	.0016400	.46552
%RSD	2.068863	48.89665	.2787443	3.398279	3.677292	.7148692
#1	.3261700	-.016236	7.687646	.0866837	.0463657	65.43291
#2	.3391032	-.006633	7.686014	.0832796	.0431261	65.34232
#3	.3368595	-.008441	7.723975	.0810369	.0443017	64.58513

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.467474	.0071030	.0127177	409.1060	.1786283	.1557444
Stddev	.015682	.0001940	.0002754	2.1364	.0001340	.0003757
%RSD	.3510368	2.731608	2.165687	.5222126	.0750254	.2412306
#1	4.466240	.0069163	.0125631	410.3300	.1786528	.1556744
#2	4.483737	.0073037	.0125543	410.3489	.1784837	.1554085
#3	4.452444	.0070890	.0130357	406.6392	.1787484	.1561501

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.130612	205.0284	16.05748	43.51608	.2535492	-.011613
Stddev	.011317	1.1807	.07798	.14048	.0002891	.000504
%RSD	1.000922	.5758670	.4856197	.3228196	.1140274	4.344193
#1	1.120311	205.9492	16.12183	43.64744	.2538558	-.012070
#2	1.128800	205.4387	16.07983	43.53282	.2535103	-.011072
#3	1.142726	203.6973	15.97076	43.36798	.2532815	-.011697

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9271653	.2271743	4.861595	10.58750	F 13.60801	-.405195
Stddev	.0308453	.0112751	.005203	.12916	.02245	.010205
%RSD	3.326839	4.963210	.1070180	1.219907	.1650129	2.518506
#1	.9156597	.2395302	4.867339	10.73285	13.62398	-.403300
#2	.9621097	.2245498	4.860248	10.54371	13.58234	-.416214
#3	.9037266	.2174428	4.857199	10.48592	13.61772	-.396070

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: P5126-09 Acquired: 01/06/2025 1:22:46 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMA4 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0127886	3.914456	8.914602	.2168953	.8692231	.3636638
Stddev	.0008390	.013177	.161811	.0006926	.0014135	.0019485
%RSD	6.560368	.3366182	1.815123	.3193277	.1626166	.5357830
#1	.0137380	3.928192	8.916484	.2176102	.8705251	.3637956
#2	.0121472	3.913256	9.075464	.2162273	.8694243	.3655430
#3	.0124804	3.901921	8.751858	.2168486	.8677197	.3616528

Elem	Li6707
Units	ppm
Avg	.1011386
Stddev	.0024922
%RSD	2.464168
#1	.1039686
#2	.0992713
#3	.1001760

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2076.572	20843.43	2001.005	1520.232	1823.110
Stddev	1.353	201.50	36.681	13.903	1.939
%RSD	.0651760	.9667211	1.833116	.9145186	.1063321
#1	2076.647	20621.51	1983.765	1504.185	1820.960
#2	2075.183	21014.94	1976.120	1527.853	1823.644
#3	2077.887	20893.84	2043.129	1528.658	1824.726

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: P5126-10 Acquired: 01/06/2025 1:26:33 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMA5 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0662060	.0043354	1.866512	.0183886	.0270705	34.71942	.5575583
Stddev	.0044398	.0009302	.006561	.0072952	.0042889	.30049	.0042872
%RSD	6.706064	21.45697	.3515096	39.67245	15.84348	.8654880	.7689223
#1	.0672592	.0041506	1.860425	.0253590	.0238051	35.00945	.5616130
#2	.0613343	.0035114	1.865648	.0189998	.0319277	34.40946	.5530713
#3	.0700245	.0053442	1.873462	.0108070	.0254786	34.73937	.5579905

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0039887	.0153740	643.5863	.2182731	.0836266	.2573856	113.1187
Stddev	.0000059	.0002050	4.2198	.0001852	.0007460	.0097603	.9142
%RSD	.1483352	1.333219	.6556692	.0848260	.8921194	3.792086	.8081732
#1	.0039940	.0155934	647.3172	.2180607	.0839700	.2567483	113.9680
#2	.0039898	.0153411	639.0067	.2183578	.0827707	.2479595	112.1511
#3	.0039823	.0151874	644.4351	.2184007	.0841391	.2674488	113.2369

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.046186	334.0111	.1532813	-.008311	1.532028	.1273671	2.754179
Stddev	.040136	2.9501	.0018552	.001329	.026243	.0135853	.009646
%RSD	.7953682	.8832282	1.210290	15.99042	1.712984	10.66622	.3502392
#1	5.085861	337.0035	.1516458	-.009564	1.555190	.1396212	2.753566
#2	5.005605	331.1052	.1552971	-.008452	1.503525	.1127585	2.744854
#3	5.047092	333.9246	.1529009	-.006917	1.537370	.1297215	2.764118

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.003460	8.977081	-.195395	.0115355	8.878097	6.519078	.0677115
Stddev	.125531	.021574	.004881	.0003651	.016811	.040272	.0010337
%RSD	3.135561	.2403240	2.497850	3.164975	.1893533	.6177522	1.526650
#1	3.875719	8.985690	-.200841	.0112686	8.896973	6.531428	.0683953
#2	4.008005	8.952532	-.191417	.0119516	8.872578	6.474077	.0682169
#3	4.126657	8.993022	-.193926	.0113864	8.864739	6.551728	.0665223

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: P5126-10 Acquired: 01/06/2025 1:26:33 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMA5 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.5600634	.2241353	.0628474
Stddev	.0010665	.0015722	.0018432
%RSD	.1904217	.7014598	2.932819
#1	.5588940	.2257309	.0621541
#2	.5603139	.2225875	.0649367
#3	.5609823	.2240876	.0614513

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1772.820	17867.06	1737.072	1295.713	1656.683
Stddev	.845	133.51	16.314	9.800	2.661
%RSD	.0476578	.7472546	.9391385	.7563195	.1606141
#1	1773.760	17720.81	1719.663	1284.600	1659.713
#2	1772.576	17897.96	1752.007	1299.420	1655.610
#3	1772.124	17982.41	1739.547	1303.118	1654.727

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: P5126-11 Acquired: 01/06/2025 1:30:20 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMA6 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0938586	-.000519	2.307339	.0351440	.0402616	49.16334
Stddev	.0076358	.003723	.001063	.0035143	.0025196	.21155
%RSD	8.135485	716.9872	.0460506	9.999759	6.257932	.4302909
#1	.0859108	.002776	2.308123	.0328995	.0375362	49.27399
#2	.1011387	-.004558	2.306130	.0391941	.0407429	49.29661
#3	.0945262	.000224	2.307765	.0333384	.0425058	48.91942

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8928674	.0051408	.0178156	515.8413	.3649664	.0993674
Stddev	.0082906	.0001122	.0002138	1.1765	.0019425	.0016497
%RSD	.9285377	2.182610	1.200155	.2280717	.5322542	1.660215
#1	.9016716	.0052334	.0176852	517.1635	.3648655	.1008648
#2	.8852097	.0051729	.0176993	515.4503	.3669575	.0975990
#3	.8917207	.0050160	.0180624	514.9101	.3630763	.0996385

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3201683	151.9644	6.407372	272.0272	.2146339	-.010075
Stddev	.0129321	.6991	.021582	.7471	.0011605	.000741
%RSD	4.039156	.4600573	.3368377	.2746251	.5406969	7.350637
#1	.3262940	152.6921	6.420303	272.4600	.2141641	-.009276
#2	.3288993	151.9030	6.419356	272.4569	.2159557	-.010738
#3	.3053115	151.2979	6.382456	271.1646	.2137820	-.010212

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.143993	.1494647	3.522880	4.929546	F 11.36802	-.279441
Stddev	.019164	.0164499	.022296	.142690	.02560	.005528
%RSD	1.675187	11.00587	.6328895	2.894578	.2251579	1.978320
#1	1.165899	.1314782	3.516025	4.962137	11.35396	-.283911
#2	1.135757	.1637461	3.504816	5.053121	11.35254	-.281152
#3	1.130324	.1531698	3.547798	4.773381	11.39756	-.273260

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: P5126-11 Acquired: 01/06/2025 1:30:20 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMA6 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0137487	9.643130	8.081279	.0959594	.7678330	.1767302
Stddev	.0003706	.010623	.040597	.0021887	.0018639	.0009905
%RSD	2.695451	.1101585	.5023524	2.280900	.2427462	.5604431
#1	.0141422	9.633258	8.126760	.0956248	.7694859	.1777390
#2	.0134063	9.654371	8.068371	.0939572	.7682001	.1766925
#3	.0136975	9.641761	8.048706	.0982962	.7658128	.1757591

Elem	Li6707
Units	ppm
Avg	.0829792
Stddev	.0051020
%RSD	6.148529
#1	.0822154
#2	.0884200
#3	.0783021

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1838.080	18496.97	1781.791	1340.951	1698.541
Stddev	2.530	51.63	6.630	16.818	3.351
%RSD	.1376504	.2791097	.3720765	1.254150	.1972930
#1	1839.610	18549.77	1777.450	1348.720	1702.174
#2	1839.469	18494.54	1789.422	1352.479	1697.876
#3	1835.159	18446.60	1778.501	1321.653	1695.572

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: P5126-12 Acquired: 01/06/2025 1:34:07 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMA7 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1102256	-.008759	2.863545	.0463338	.0433413	47.83548
Stddev	.0051405	.003480	.006733	.0041696	.0050668	.40805
%RSD	4.663614	39.72333	.2351448	8.999109	11.69050	.8530286
#1	.1144057	-.008125	2.869353	.0422621	.0434218	47.86269
#2	.1117852	-.005641	2.856165	.0505950	.0483674	47.41450
#3	.1044859	-.012513	2.865119	.0461443	.0382347	48.22924

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8485275	.0062672	.0172644	454.4332	.1941230	.0990750
Stddev	.0041663	.0001343	.0001697	1.9924	.0016270	.0009056
%RSD	.4909983	2.142060	.9827049	.4384298	.8381517	.9140654
#1	.8477001	.0062233	.0173911	454.7781	.1923345	.1001163
#2	.8448371	.0064179	.0170717	452.2909	.1955155	.0986375
#3	.8530454	.0061604	.0173305	456.2306	.1945190	.0984713

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4057454	168.6661	6.220986	220.7536	.2370533	-.011799
Stddev	.0059896	1.3550	.046976	1.8670	.0008829	.001310
%RSD	1.476199	.8033669	.7551242	.8457537	.3724686	11.10022
#1	.4060726	168.3660	6.233428	220.3409	.2368997	-.012656
#2	.3995989	167.4863	6.169042	219.1275	.2380030	-.012451
#3	.4115647	170.1460	6.260489	222.7925	.2362573	-.010292

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.185447	.1559377	4.109104	5.334820	F 10.11200	-.307817
Stddev	.010870	.0036901	.016769	.109286	.01901	.007144
%RSD	.9169192	2.366393	.4080918	2.048545	.1879793	2.320822
#1	1.176469	.1592142	4.128392	5.265479	10.13028	-.299739
#2	1.182340	.1566586	4.097984	5.460800	10.11337	-.310409
#3	1.197532	.1519404	4.100935	5.278181	10.09234	-.313303

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: P5126-12 Acquired: 01/06/2025 1:34:07 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMA7 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0143384	8.482224	7.691711	.1095151	.7559735	.2153949
Stddev	.0006348	.021144	.086412	.0022247	.0079256	.0021454
%RSD	4.427428	.2492752	1.123442	2.031377	1.048395	.9960370
#1	.0147089	8.502400	7.627221	.1076063	.7643005	.2161557
#2	.0136054	8.484042	7.658019	.1119583	.7485220	.2129727
#3	.0147010	8.460230	7.789894	.1089807	.7550982	.2170562

Elem	Li6707
Units	ppm
Avg	.0834002
Stddev	.0063989
%RSD	7.672458
#1	.0760253
#2	.0866961
#3	.0874793

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1848.420	18534.33	1788.158	1352.292	1715.700
Stddev	7.119	35.00	14.807	4.425	3.416
%RSD	.3851402	.1888415	.8280616	.3272116	.1991107
#1	1851.488	18568.08	1799.272	1347.377	1715.273
#2	1853.490	18536.69	1793.853	1353.539	1719.309
#3	1840.281	18498.20	1771.349	1355.959	1712.517

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: P5126-13 Acquired: 01/06/2025 1:37:53 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMF2 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2005999	-.011684	2.113810	.1037298	.0443035	70.73908
Stddev	.0042602	.002156	.001662	.0076526	.0027667	.36859
%RSD	2.123735	18.45523	.0786253	7.377456	6.244865	.5210546
#1	.2017239	-.010784	2.112480	.1106108	.0474044	71.00268
#2	.2041855	-.014144	2.115673	.1050904	.0420874	70.89667
#3	.1958904	-.010123	2.113276	.0954881	.0434187	70.31789

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.590855	.0072876	.0073406	212.4870	.1497146	.1444483
Stddev	.001898	.0001693	.0000872	.4464	.0009148	.0001963
%RSD	.1192815	2.323601	1.187393	.2100725	.6110500	.1358940
#1	1.591894	.0074804	.0072916	212.8660	.1491261	.1442828
#2	1.592006	.0072190	.0072890	212.6001	.1507686	.1446652
#3	1.588665	.0071633	.0074413	211.9950	.1492492	.1443968

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4809855	210.6437	22.43644	30.32362	.1853704	-.011778
Stddev	.0062251	1.2808	.08134	.10644	.0006071	.000176
%RSD	1.294233	.6080208	.3625400	.3510096	.3275228	1.491442
#1	.4828769	211.2576	22.47402	30.39928	.1846816	-.011580
#2	.4860456	211.5018	22.49220	30.36966	.1856020	-.011914
#3	.4740341	209.1715	22.34311	30.20191	.1858276	-.011840

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6768461	.1892274	1.451923	9.268372	F 11.94264	-.439694
Stddev	.0256957	.0019940	.002891	.145048	.01327	.007385
%RSD	3.796379	1.053758	.1990883	1.564975	.1111463	1.679501
#1	.7025824	.1879705	1.453355	9.196967	11.95345	-.447235
#2	.6767646	.1881851	1.453818	9.172869	11.92783	-.439370
#3	.6511913	.1915265	1.448596	9.435280	11.94665	-.432476

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: P5126-13 Acquired: 01/06/2025 1:37:53 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMF2 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0123192	3.206600	8.801613	.1966534	.8347637	.1413239
Stddev	.0010625	.008218	.094403	.0016443	.0016114	.0005963
%RSD	8.624628	.2562813	1.072570	.8361638	.1930419	.4219547
#1	.0112522	3.210015	8.894514	.1949930	.8360043	.1418367
#2	.0133771	3.212559	8.804550	.1966859	.8329424	.1414654
#3	.0123282	3.197225	8.705775	.1982812	.8353443	.1406696

Elem	Li6707
Units	ppm
Avg	.0908339
Stddev	.0032242
%RSD	3.549589
#1	.0885258
#2	.0945178
#3	.0894580

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2198.967	22026.13	2084.720	1614.083	1862.356
Stddev	2.631	43.11	17.757	5.406	1.545
%RSD	.1196307	.1957039	.8517497	.3349409	.0829370
#1	2196.082	22075.08	2068.411	1619.278	1862.910
#2	2199.587	22009.44	2082.113	1608.488	1860.611
#3	2201.232	21993.86	2103.636	1614.483	1863.547

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: P5126-14 Acquired: 01/06/2025 1:41:41 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMF3 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2032146	-.014758	2.608081	.1019806	.0453591	72.16678
Stddev	.0076283	.005186	.008306	.0083325	.0033820	1.27622
%RSD	3.753813	35.14402	.3184732	8.170717	7.456011	1.768427
#1	.2111723	-.015312	2.600702	.1052685	.0414580	70.69776
#2	.1959651	-.009316	2.606464	.1081676	.0471557	72.80027
#3	.2025063	-.019644	2.617076	.0925057	.0474636	73.00231

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.981799	.0073873	.0089442	334.8535	.1883986	.1505100
Stddev	.040016	.0001679	.0001481	6.3026	.0003284	.0001873
%RSD	2.019157	2.272467	1.655773	1.882199	.1743065	.1244476
#1	1.935723	.0072819	.0090724	327.5761	.1886949	.1505351
#2	2.007841	.0075809	.0089781	338.5299	.1884554	.1506835
#3	2.001833	.0072991	.0087821	338.4547	.1880455	.1503115

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5785619	220.1929	21.35669	39.54827	.2189237	-.012581
Stddev	.0134121	4.0814	.34837	.71966	.0008592	.003231
%RSD	2.318183	1.853548	1.631180	1.819709	.3924639	25.68186
#1	.5644447	215.4815	20.95680	38.71729	.2180012	-.014936
#2	.5911353	222.4488	21.51888	39.95857	.2197011	-.013908
#3	.5801056	222.6483	21.59439	39.96894	.2190689	-.008897

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8317370	.1894203	1.960869	9.730127	F 12.28691	-.450526
Stddev	.0216685	.0111247	.003603	.393429	.01792	.005283
%RSD	2.605208	5.873032	.1837474	4.043411	.1458692	1.172690
#1	.8126945	.1811500	1.956756	9.281403	12.26625	-.445971
#2	.8272026	.1850430	1.963469	10.01590	12.29829	-.449288
#3	.8553139	.2020679	1.962381	9.89308	12.29620	-.456318

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: P5126-14 Acquired: 01/06/2025 1:41:41 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMF3 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0120559	4.005976	8.761349	.1796304	.8411709	.3025177
Stddev	.0002383	.003825	.122663	.0022621	.0225856	.0054723
%RSD	1.976709	.0954818	1.400049	1.259301	2.685016	1.808909
#1	.0117818	4.008519	8.622927	.1799766	.8151097	.2963821
#2	.0122141	4.001577	8.804563	.1772151	.8533524	.3042771
#3	.0121718	4.007833	8.856556	.1816994	.8550505	.3068938

Elem	Li6707
Units	ppm
Avg	.1008673
Stddev	.0029697
%RSD	2.944190
#1	.0993055
#2	.1042921
#3	.0990045

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2197.516	22030.45	2127.355	1609.539	1823.582
Stddev	6.660	53.03	35.971	8.667	7.029
%RSD	.3030723	.2407074	1.690874	.5384516	.3854655
#1	2193.385	22085.79	2167.762	1618.922	1821.290
#2	2193.964	22025.49	2115.480	1607.860	1817.986
#3	2205.199	21980.08	2098.823	1601.834	1831.472

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: P5126-15 Acquired: 01/06/2025 1:45:27 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMM8 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1422999	-.017991	3.515420	.0623352	.0443319	47.08180
Stddev	.0073089	.000413	.002291	.0096815	.0003547	.07499
%RSD	5.136265	2.294919	.0651650	15.53135	.8001957	.1592853
#1	.1483959	-.017564	3.518056	.0703037	.0445079	47.04677
#2	.1443064	-.018023	3.514296	.0651414	.0445642	47.03074
#3	.1341973	-.018388	3.513909	.0515606	.0439235	47.16790

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.493866	.0068432	.0059310	185.0594	.1328705	.1010413
Stddev	.013734	.0001733	.0001278	.7724	.0012935	.0004112
%RSD	.9193924	2.532032	2.154170	.4173876	.9734847	.4069543
#1	1.509180	.0067572	.0060642	185.5452	.1343307	.1013916
#2	1.482638	.0067297	.0058095	184.1687	.1324122	.1005886
#3	1.489781	.0070427	.0059194	185.4643	.1318685	.1011438

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5300756	162.6061	4.744244	45.82035	.1704287	-.009371
Stddev	.0139147	.2359	.010167	.15943	.0019059	.001171
%RSD	2.625040	.1450542	.2142961	.3479529	1.118309	12.49071
#1	.5442359	162.7597	4.737947	45.64816	.1725562	-.008483
#2	.5164202	162.3345	4.738813	45.96284	.1698527	-.010698
#3	.5295707	162.7241	4.755973	45.85006	.1688772	-.008933

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.101813	.1713142	2.429087	6.901615	F 10.00853	-.312839
Stddev	.028977	.0047631	.005891	.151787	.01905	.002305
%RSD	2.629942	2.780356	.2425327	2.199296	.1903740	.7367408
#1	1.129405	.1661398	2.435853	6.875742	10.01048	-.312595
#2	1.071625	.1722869	2.426316	7.064675	10.02652	-.310665
#3	1.104409	.1755159	2.425092	6.764427	9.98857	-.315256

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: P5126-15 Acquired: 01/06/2025 1:45:27 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMM8 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0115874	3.616575	8.288208	.2304899	1.113691	.2540916
Stddev	.0003866	.006428	.054888	.0020644	.004491	.0004161
%RSD	3.336329	.1777404	.6622363	.8956374	.4032101	.1637563
#1	.0120227	3.618390	8.314694	.2281542	1.115775	.2541767
#2	.0112840	3.609435	8.225100	.2312454	1.108538	.2536396
#3	.0114555	3.621901	8.324830	.2320700	1.116762	.2544586

Elem	Li6707
Units	ppm
Avg	.0920918
Stddev	.0016893
%RSD	1.834324
#1	.0933151
#2	.0927960
#3	.0901644

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1986.722	19855.65	1891.619	1454.024	1889.001
Stddev	8.029	73.46	5.596	5.929	5.296
%RSD	.4041446	.3699757	.2958285	.4077960	.2803538
#1	1984.603	19775.73	1888.653	1453.156	1886.378
#2	1979.965	19870.98	1898.073	1448.576	1885.529
#3	1995.599	19920.23	1888.130	1460.340	1895.097

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: CCV118 Acquired: 01/06/2025 1:53:15 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV118 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.073605	4.938050	25.09039	5.023895	4.990862	408.4959
Stddev	.020052	.044944	.17632	.030679	.045363	8.4182
%RSD	.3952254	.9101597	.7027524	.6106610	.9089231	2.060772
#1	5.051290	4.886153	24.88729	4.988678	4.938713	413.5175
#2	5.090113	4.963801	25.17949	5.044823	5.012666	398.7772
#3	5.079412	4.964194	25.20437	5.038185	5.021205	413.1929

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	10.36181	.5178840	2.521851	414.5460	15.74931	2.543380
Stddev	.23501	.0083810	.017957	9.9406	.36383	.017812
%RSD	2.268003	1.618312	.7120495	2.397944	2.310138	.7003217
#1	10.45422	.5250619	2.501141	419.5766	15.32939	2.522826
#2	10.09464	.5086737	2.531330	403.0957	15.97037	2.553014
#3	10.53656	.5199163	2.533083	420.9658	15.94818	2.554301

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	15.39674	413.2069	15.24865	410.7524	2.541900	1.273585
Stddev	.38150	9.8005	.31864	10.0209	.017729	.025609
%RSD	2.477793	2.371824	2.089627	2.439653	.6974767	2.010768
#1	15.61152	418.9746	15.42746	415.8271	2.521482	1.244115
#2	14.95627	401.8909	14.88077	399.2092	2.550831	1.286213
#3	15.62244	418.7552	15.43774	417.2208	2.553388	1.290427

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	420.8243	2.528885	14.98098	156.4482	5.082210	F 4.490699
Stddev	14.7679	.058805	.21234	3.6231	.041388	.088989
%RSD	3.509270	2.325324	1.417370	2.315834	.8143606	1.981631
#1	429.5417	2.572003	14.73763	158.5767	5.036107	4.571350
#2	403.7732	2.461898	15.07668	152.2648	5.094360	4.395232
#3	429.1578	2.552753	15.12862	158.5030	5.116162	4.505514

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: CCV118 Acquired: 01/06/2025 1:53:15 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV118 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.930410	5.083267	5.083160	5.096355	5.091502	4.873105
Stddev	.049477	.042346	.085638	.039347	.122214	.104920
%RSD	1.003501	.8330457	1.684740	.7720637	2.400353	2.153048
#1	4.873332	5.035975	5.161597	5.050974	5.158170	4.930036
#2	4.956823	5.117672	4.991792	5.117154	4.950452	4.752025
#3	4.961075	5.096155	5.096091	5.120939	5.165884	4.937254

Elem	Li6707
Units	ppm
Avg	5.153241
Stddev	.119299
%RSD	2.315026
#1	5.203980
#2	5.016960
#3	5.238783

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1481.382	15778.59	1547.049	1081.789	1590.921
Stddev	10.650	332.29	28.115	14.309	8.594
%RSD	.7189148	2.105928	1.817333	1.322738	.5401957
#1	1493.511	16162.27	1521.060	1098.092	1600.679
#2	1477.075	15588.23	1576.892	1075.969	1587.604
#3	1473.560	15585.26	1543.194	1071.308	1584.480

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: CCB118 Acquired: 01/06/2025 1:57:01 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB118 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0059943	.0023627	.0014638	.0073705	-.000852	.0141832	-.003426
Stddev	.0026224	.0009574	.0021619	.0014826	.003351	.0148393	.001053
%RSD	43.74826	40.51977	147.6899	20.11536	393.0777	104.6265	30.73495
#1	.0082121	.0030993	-.000876	.0066051	.000680	.0165992	-.004501
#2	.0066707	.0012805	.001879	.0064270	.001458	.0276662	-.002396
#3	.0030999	.0027083	.003388	.0090794	-.004696	-.001716	-.003382

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000508	.0000357	.0526543	.0006795	.0003416	-.009750	.0140433
Stddev	.0001999	.0001209	.0612485	.0006567	.0006042	.015572	.0254597
%RSD	393.3765	338.2557	116.3219	96.63696	176.8488	159.7031	181.2940
#1	-.000002	.0001747	.1181730	-.000045	-.000285	-.001295	-.005512
#2	-.000117	-.000045	.0429569	.001235	.000920	-.000236	.004811
#3	.000272	-.000023	-.003167	.000849	.000390	-.027720	.042831

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0016706	-.068977	-.000213	.0001496	.1752039	-.000709	.0064922
Stddev	.0018570	.064438	.000204	.0016004	.0407005	.011837	.0008477
%RSD	111.1558	93.42000	96.09235	1069.963	23.23037	1670.723	13.05644
#1	.0018545	-.121726	.000022	.0019970	.2013147	.012166	.0072581
#2	-.000271	-.088048	-.000354	-.000813	.1959893	-.003171	.0066372
#3	.003429	.002844	-.000306	-.000735	.1283077	-.011121	.0055815

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.128597	-.002071	.0108447	-.000275	.0035633	.0013619	-.001981
Stddev	.222028	.001463	.0013990	.000513	.0020943	.0007689	.001855
%RSD	172.6535	70.63883	12.90036	186.7842	58.77263	56.45657	93.65838
#1	-.184107	-.000383	.0111384	-.000252	.0011467	.0019386	-.002104
#2	.115918	-.002848	.0093221	.000227	.0048478	.0016582	-.003771
#3	-.317603	-.002981	.0120735	-.000800	.0046955	.0004890	-.000067

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: CCB118 Acquired: 01/06/2025 1:57:01 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB118 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	-.008021	.0004494	.0121801
Stddev	.002953	.0000950	.0035332
%RSD	36.81071	21.14290	29.00764
#1	-.007057	.0004865	.0099668
#2	-.005670	.0003414	.0162547
#3	-.011335	.0005202	.0103186

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1787.965	17842.24	1678.635	1313.318	2001.540
Stddev	1.881	70.07	30.499	13.543	4.285
%RSD	.1052090	.3927061	1.816878	1.031236	.2140940
#1	1785.802	17910.71	1707.404	1318.248	1997.586
#2	1789.218	17845.34	1646.660	1323.706	2006.093
#3	1788.875	17770.67	1681.841	1298.000	2000.940

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: P5128-19 Acquired: 01/06/2025 2:01:02 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMK9 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2360821	-.017785	5.205557	.0954510	.0447334	64.14941
Stddev	.0042105	.005240	.007066	.0026296	.0031998	.40685
%RSD	1.783470	29.46399	.1357351	2.754866	7.153137	.6342189
#1	.2405905	-.017717	5.205019	.0981306	.0480070	63.68081
#2	.2354038	-.023059	5.198775	.0928746	.0416128	64.41271
#3	.2322520	-.012579	5.212876	.0953478	.0445805	64.35469

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.056791	.0073647	.0155276	115.2553	.1698860	.1394194
Stddev	.007307	.0001022	.0000214	.2550	.0006378	.0005496
%RSD	.3552790	1.388168	.1378037	.2212461	.3754472	.3942125
#1	2.059601	.0073795	.0155511	115.0440	.1698842	.1392014
#2	2.048496	.0074587	.0155222	115.1832	.1705248	.1390122
#3	2.062276	.0072559	.0155094	115.5385	.1692491	.1400445

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7386776	184.1525	15.67560	31.78078	.2285369	-.005859
Stddev	.0051721	.5126	.03755	.15516	.0003588	.001587
%RSD	.7001849	.2783565	.2395442	.4882214	.1569877	27.09534
#1	.7368208	183.5622	15.63239	31.62381	.2282191	-.005539
#2	.7346902	184.4852	15.69409	31.93407	.2289259	-.004455
#3	.7445218	184.4101	15.70033	31.78445	.2284658	-.007582

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.219669	.1730405	3.316081	9.143785	F 11.86936	-.376489
Stddev	.017729	.0076949	.009065	.246518	.01301	.006287
%RSD	1.453624	4.446853	.2733684	2.696014	.1095734	1.669793
#1	1.218863	.1818702	3.321004	8.876719	11.88284	-.370691
#2	1.237788	.1677669	3.305619	9.192010	11.85689	-.383171
#3	1.202356	.1694843	3.321619	9.362627	11.86836	-.375605

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: P5128-19 Acquired: 01/06/2025 2:01:02 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMK9 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0134066	3.176381	10.04094	.2372740	.7219632	.0612074
Stddev	.0005881	.011175	.09851	.0016105	.0077006	.0003492
%RSD	4.386765	.3518221	.9810828	.6787323	1.066620	.5704822
#1	.0138123	3.163582	9.95001	.2385008	.7144254	.0609488
#2	.0136755	3.184207	10.14559	.2354503	.7216475	.0616046
#3	.0127321	3.181353	10.02723	.2378709	.7298169	.0610689

Elem	Li6707
Units	ppm
Avg	.0922700
Stddev	.0045417
%RSD	4.922173
#1	.0895370
#2	.0897603
#3	.0975127

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2168.723	21780.53	2041.310	1594.435	1924.457
Stddev	7.129	164.71	6.844	12.765	5.202
%RSD	.3287142	.7562160	.3352775	.8005993	.2703068
#1	2160.909	21590.67	2047.339	1583.724	1918.736
#2	2174.872	21885.24	2033.870	1608.560	1928.902
#3	2170.388	21865.66	2042.720	1591.022	1925.732

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: P5128-20 Acquired: 01/06/2025 2:04:49 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMK9D Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2287024	-.015878	5.217737	.0938445	.0430612	64.19437
Stddev	.0016878	.007020	.002632	.0041226	.0016446	.23061
%RSD	.7379847	44.21179	.0504418	4.393035	3.819113	.3592371
#1	.2279351	-.008563	5.220553	.0940232	.0416160	64.41458
#2	.2306375	-.016512	5.215339	.0896354	.0427168	63.95460
#3	.2275345	-.022559	5.217318	.0978748	.0448506	64.21394

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.070683	.0073120	.0156848	115.4004	.1703669	.1387165
Stddev	.002987	.0000809	.0001461	.0758	.0002997	.0005404
%RSD	.1442541	1.105760	.9311545	.0656762	.1758973	.3895974
#1	2.074081	.0073977	.0158390	115.4449	.1705568	.1389895
#2	2.068470	.0073013	.0155485	115.3128	.1700214	.1380940
#3	2.069498	.0072370	.0156669	115.4433	.1705226	.1390659

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7434091	184.7771	15.68942	31.68663	.2290879	-.005227
Stddev	.0092800	.6529	.04051	.13707	.0007988	.000752
%RSD	1.248305	.3533444	.2581823	.4325688	.3486737	14.39308
#1	.7502426	185.1894	15.73082	31.72588	.2284782	-.005979
#2	.7471404	184.0243	15.64987	31.53422	.2299921	-.004474
#3	.7328442	185.1175	15.68756	31.79979	.2287934	-.005229

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.186501	.1872163	3.314159	8.843060	F 11.87779	-.374931
Stddev	.009894	.0036964	.017732	.031186	.01653	.001069
%RSD	.8338784	1.974409	.5350317	.3526614	.1391859	.2850154
#1	1.194545	.1842810	3.317289	8.807177	11.89642	-.374533
#2	1.175454	.1913675	3.330118	8.858379	11.86487	-.376141
#3	1.189506	.1860003	3.295071	8.863625	11.87209	-.374117

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: P5128-20 Acquired: 01/06/2025 2:04:49 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMK9D Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0135626	3.175534	9.958721	.2350058	.7275405	.0612542
Stddev	.0013806	.009135	.059349	.0015827	.0034220	.0005336
%RSD	10.17967	.2876702	.5959479	.6734860	.4703579	.8710869
#1	.0144734	3.182847	10.02153	.2344897	.7298840	.0615969
#2	.0142404	3.165294	9.95104	.2337455	.7236135	.0615262
#3	.0119741	3.178460	9.90358	.2367821	.7291240	.0606394

Elem	Li6707
Units	ppm
Avg	.0968294
Stddev	.0017511
%RSD	1.808425
#1	.0957613
#2	.0988503
#3	.0958766

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2167.340	21626.03	2040.943	1584.029	1919.953
Stddev	2.275	49.12	9.457	5.627	1.117
%RSD	.1049646	.2271451	.4633456	.3552258	.0581601
#1	2168.396	21654.84	2032.497	1583.176	1920.019
#2	2168.896	21653.93	2039.171	1578.878	1918.805
#3	2164.729	21569.31	2051.159	1590.034	1921.036

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: P5128-19LX5 Acquired: 01/06/2025 2:08:37 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMK9L Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0395684	-.000484	1.027499	.0252442	.0092593	14.59642	.4701955
Stddev	.0047811	.003585	.002708	.0016022	.0027945	.41808	.0140089
%RSD	12.08315	740.7754	.2635368	6.346967	30.18007	2.864236	2.979385
#1	.0409176	-.004221	1.029139	.0270741	.0121701	14.96089	.4836176
#2	.0435300	-.000159	1.024373	.0240931	.0065978	14.14003	.4556655
#3	.0342577	.002928	1.028983	.0245654	.0090100	14.68833	.4713034

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0017933	.0029450	26.41082	.0385649	.0360652	.1643380	41.83803
Stddev	.0000732	.0000420	.85181	.0004159	.0002813	.0086312	1.46294
%RSD	4.079877	1.425770	3.225230	1.078498	.7799339	5.252127	3.496668
#1	.0018318	.0029501	27.27075	.0389708	.0357463	.1742084	43.25730
#2	.0018392	.0029841	25.56737	.0385844	.0361714	.1605981	40.33503
#3	.0017089	.0029006	26.39435	.0381396	.0362780	.1582074	41.92177

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.617888	7.365744	.0424730	-.002085	.2955673	.0387361	.7716467
Stddev	.110373	.267642	.0002718	.001145	.0044684	.0087730	.0056718
%RSD	3.050752	3.633600	.6399394	54.90966	1.511801	22.64805	.7350273
#1	3.722295	7.674782	.0427836	-.000963	.2967879	.0349905	.7781591
#2	3.502387	7.209292	.0423569	-.002041	.2992985	.0487601	.7677895
#3	3.628983	7.213158	.0422785	-.003252	.2906154	.0324577	.7689915

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.922414	2.299399	-.083646	.0043467	.6098289	2.305228	.0458211
Stddev	.120203	.008119	.003168	.0000313	.0054425	.055653	.0010842
%RSD	6.252698	.3531050	3.787288	.7197731	.8924683	2.414187	2.366103
#1	1.874822	2.292243	-.087108	.0043450	.6053791	2.345105	.0445808
#2	1.833293	2.297730	-.082936	.0043163	.6158970	2.241648	.0462944
#3	2.059125	2.308223	-.080893	.0043788	.6082105	2.328930	.0465882

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: P5128-19LX5 Acquired: 01/06/2025 2:08:37 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMK9L Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.1561598	.0144216	.0216291
Stddev	.0027563	.0003041	.0089258
%RSD	1.765055	2.109016	41.26763
#1	.1593400	.0146423	.0220051
#2	.1544601	.0140746	.0125212
#3	.1546795	.0145478	.0303610

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1866.006	18617.70	1736.234	1365.581	1972.505
Stddev	2.896	47.99	45.943	8.257	1.247
%RSD	.1552021	.2577629	2.646121	.6046857	.0632411
#1	1868.088	18601.31	1700.725	1357.043	1971.280
#2	1862.698	18671.74	1788.122	1373.526	1972.460
#3	1867.231	18580.05	1719.856	1366.175	1973.774

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: P5128-21 Acquired: 01/06/2025 2:12:30 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMK9S Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3053919	.0680719	5.200449	.2325046	.1847574	66.27754
Stddev	.0045117	.0037239	.010609	.0051757	.0004242	.04954
%RSD	1.477334	5.470484	.2040038	2.226078	.2296227	.0747412
#1	.3034750	.0662021	5.196435	.2334779	.1850801	66.30794
#2	.3021553	.0656536	5.192432	.2269112	.1849154	66.30430
#3	.3105455	.0723602	5.212479	.2371245	.1842769	66.22038

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.264023	.0878426	.1082052	114.3173	.5104145	1.088305
Stddev	.027269	.0004343	.0002402	.3041	.0022918	.002222
%RSD	.5180249	.4944457	.2219421	.2660005	.4490018	.2041712
#1	5.233004	.0883416	.1081394	113.9838	.5088956	1.087969
#2	5.274844	.0875495	.1080047	114.3888	.5092973	1.086270
#3	5.284220	.0876367	.1084713	114.5793	.5130506	1.090676

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.122020	183.2209	16.26786	31.39325	1.196095	.0550891
Stddev	.012772	.3952	.02042	.20839	.001766	.0013778
%RSD	1.138327	.2156939	.1255239	.6638092	.1476374	2.501139
#1	1.114492	183.5368	16.25820	31.15262	1.197344	.0555086
#2	1.136767	183.3482	16.29132	31.51419	1.194075	.0562085
#3	1.114802	182.7778	16.25406	31.51294	1.196865	.0535503

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.199083	.9885432	4.018692	9.000545	F 11.71811	-.371482
Stddev	.003817	.0124486	.027721	.109391	.02803	.004203
%RSD	.3183514	1.259290	.6898025	1.215377	.2392025	1.131315
#1	1.194907	1.002045	4.044711	9.066084	11.72317	-.376327
#2	1.199950	.986063	3.989536	8.874262	11.68790	-.369294
#3	1.202392	.977521	4.021828	9.061288	11.74327	-.368824

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: P5128-21 Acquired: 01/06/2025 2:12:30 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMK9S Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0136055	3.147435	9.781338	.2339422	.7120162	.0591900
Stddev	.0005884	.003565	.072145	.0026483	.0050002	.0004159
%RSD	4.324423	.1132620	.7375788	1.132012	.7022628	.7027053
#1	.0130013	3.144600	9.849051	.2316273	.7161437	.0589005
#2	.0136385	3.146267	9.705456	.2333694	.7134489	.0590029
#3	.0141767	3.151437	9.789508	.2368300	.7064560	.0596666

Elem	Li6707
Units	ppm
Avg	.0950774
Stddev	.0017096
%RSD	1.798082
#1	.0951498
#2	.0967496
#3	.0933328

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2163.765	21599.16	2051.793	1580.366	1924.994
Stddev	4.906	21.25	11.472	9.191	5.452
%RSD	.2267557	.0983779	.5591280	.5815900	.2832380
#1	2159.144	21611.45	2038.642	1569.836	1921.866
#2	2163.237	21611.40	2059.751	1586.780	1931.290
#3	2168.914	21574.62	2056.984	1584.482	1921.826

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: P5122-12 Acquired: 01/06/2025 2:16:17 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMC9 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1375222	-.027650	4.945124	.0817013	.0597710	57.55286
Stddev	.0036841	.005486	.008983	.0072551	.0017189	.58740
%RSD	2.678931	19.84180	.1816518	8.879990	2.875819	1.020636
#1	.1370736	-.033955	4.951859	.0738197	.0585643	56.98963
#2	.1340828	-.023963	4.948587	.0881010	.0590096	58.16177
#3	.1414100	-.025034	4.934925	.0831834	.0617391	57.50718

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.863448	.0075137	.0071896	433.8745	.1633020	.1240255
Stddev	.007737	.0001925	.0000728	2.4057	.0011859	.0001672
%RSD	.4152184	2.562460	1.011923	.5544761	.7262156	.1348137
#1	1.854729	.0073102	.0071056	431.2805	.1642154	.1240659
#2	1.869495	.0076930	.0072311	436.0323	.1619617	.1241687
#3	1.866121	.0075380	.0072320	434.3106	.1637288	.1238418

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3872885	212.7913	6.657785	68.79153	.2327970	-.017379
Stddev	.0033572	1.9781	.061334	.61294	.0004146	.001117
%RSD	.8668418	.9295904	.9212427	.8910040	.1781103	6.425645
#1	.3909646	210.5798	6.595346	68.15534	.2323459	-.016090
#2	.3865157	214.3916	6.717952	69.37820	.2331616	-.017990
#3	.3843850	213.4027	6.660055	68.84105	.2328835	-.018056

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.447296	.2320694	3.060203	10.67687	F 15.30020	-.378257
Stddev	.006137	.0057584	.008992	.27128	.01619	.006286
%RSD	.4240147	2.481321	.2938264	2.540831	.1057837	1.661863
#1	1.444147	.2306594	3.051273	10.62812	15.30056	-.382423
#2	1.454369	.2384018	3.069255	10.43327	15.31620	-.371026
#3	1.443374	.2271469	3.060081	10.96922	15.28383	-.381321

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: P5122-12 Acquired: 01/06/2025 2:16:17 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMC9 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0098204	4.324906	9.758323	.2247891	1.257939	.8983775
Stddev	.0008708	.015106	.032457	.0016298	.003161	.0070313
%RSD	8.866958	.3492797	.3326037	.7250376	.2513069	.7826631
#1	.0097200	4.337953	9.734073	.2251109	1.254554	.8917280
#2	.0090042	4.328408	9.795194	.2230224	1.260815	.9057367
#3	.0107370	4.308356	9.745703	.2262340	1.258448	.8976677

Elem	Li6707
Units	ppm
Avg	.1120900
Stddev	.0069712
%RSD	6.219268
#1	.1136219
#2	.1044803
#3	.1181678

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1969.159	19628.71	1892.440	1428.142	1797.759
Stddev	6.106	131.45	15.955	14.011	2.878
%RSD	.3100669	.6696700	.8431000	.9810391	.1601015
#1	1974.803	19657.97	1908.067	1442.521	1799.899
#2	1969.994	19743.06	1893.076	1427.373	1798.892
#3	1962.678	19485.10	1876.176	1414.531	1794.487

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: P5122-13 Acquired: 01/06/2025 2:20:03 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMC9D Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1345452	-.026391	5.165193	.0838832	.0593588	58.29544
Stddev	.0054194	.003599	.007836	.0098763	.0007943	2.36249
%RSD	4.027965	13.63810	.1517170	11.77386	1.338131	4.052623
#1	.1400262	-.022750	5.173793	.0818127	.0597685	59.66773
#2	.1291895	-.026475	5.163332	.0752063	.0598646	55.56748
#3	.1344198	-.029947	5.158455	.0946305	.0584433	59.65111

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.911321	.0077837	.0073950	435.8930	.1665670	.1265254
Stddev	.082850	.0002251	.0003746	17.8071	.0021285	.0006646
%RSD	4.334720	2.892394	5.065085	4.085190	1.277834	.5252831
#1	1.967701	.0078016	.0070923	447.1597	.1641550	.1257940
#2	1.816197	.0075501	.0078139	415.3638	.1681816	.1270922
#3	1.950065	.0079993	.0072789	445.1556	.1673644	.1266901

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4021985	219.0310	6.618876	69.17177	.2394576	-.015675
Stddev	.0135563	8.7569	.259321	2.65326	.0014035	.000814
%RSD	3.370541	3.997996	3.917906	3.835753	.5861121	5.194872
#1	.4105468	224.5850	6.766568	70.90510	.2383010	-.014749
#2	.3865570	208.9364	6.319447	66.11731	.2390529	-.016279
#3	.4094918	223.5715	6.770614	70.49291	.2410190	-.015997

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.503775	.2420652	3.138732	10.99155	F 15.57287	-.388807
Stddev	.047705	.0076498	.048769	.61249	.03777	.009466
%RSD	3.172349	3.160214	1.553769	5.572364	.2425130	2.434536
#1	1.548826	.2499800	3.087079	11.39592	15.58534	-.396429
#2	1.453798	.2415042	3.183983	10.28686	15.60283	-.378212
#3	1.508703	.2347113	3.145135	11.29185	15.53045	-.391781

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: P5122-13 Acquired: 01/06/2025 2:20:03 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMC9D Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0105012	4.431554	9.636556	.2427242	1.321918	.8995930
Stddev	.0003315	.004018	.250943	.0020912	.044065	.0326809
%RSD	3.156332	.0906788	2.604074	.8615367	3.333404	3.632854
#1	.0103490	4.436059	9.794373	.2411256	1.344748	.9187231
#2	.0108814	4.430264	9.347189	.2450908	1.271123	.8618575
#3	.0102731	4.428339	9.768106	.2419563	1.349884	.9181983

Elem	Li6707
Units	ppm
Avg	.1118832
Stddev	.0048944
%RSD	4.374547
#1	.1146970
#2	.1062316
#3	.1147208

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1952.138	19623.44	1880.447	1427.552	1786.448
Stddev	4.194	207.91	59.675	13.580	2.210
%RSD	.2148613	1.059475	3.173445	.9512598	.1236935
#1	1954.574	19859.95	1839.293	1443.016	1786.057
#2	1954.546	19540.88	1948.887	1417.573	1784.460
#3	1947.295	19469.51	1853.162	1422.065	1788.827

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: P5122-12LX5 Acquired: 01/06/2025 2:23:49 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMC9L Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0280436	.0066589	.9624698	.0066213	.0119791	12.46057	.4011176
Stddev	.0044767	.0028464	.0092499	.0074475	.0003354	.13522	.0010252
%RSD	15.96337	42.74524	.9610566	112.4784	2.799730	1.085145	.2555953
#1	.0308287	.0096991	.9517943	.0151112	.0120892	12.41282	.4020834
#2	.0228797	.0062203	.9675136	.0011907	.0122456	12.35572	.4000418
#3	.0304225	.0040573	.9681014	.0035619	.0116025	12.61319	.4012278

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0018594	.0012662	95.11033	.0358542	.0426299	.0802307	46.76884
Stddev	.0001528	.0000273	.67855	.0005265	.0005951	.0070181	.46851
%RSD	8.217400	2.153418	.7134304	1.468586	1.396064	8.747395	1.001751
#1	.0017813	.0012674	94.82471	.0362761	.0422479	.0882791	46.34663
#2	.0017614	.0012383	94.62128	.0352641	.0433156	.0770253	46.68703
#3	.0020354	.0012928	95.88499	.0360223	.0423261	.0753875	47.27287

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.486723	15.47460	.0416006	-.003296	.3183090	.0393903	.6751942
Stddev	.020293	.13359	.0003330	.000901	.0204508	.0060556	.0024698
%RSD	1.364927	.8632889	.8005605	27.34458	6.424809	15.37335	.3657946
#1	1.468023	15.35365	.0418736	-.003069	.3112941	.0443497	.6727742
#2	1.483845	15.45217	.0412295	-.002530	.3413440	.0411796	.6750972
#3	1.508302	15.61799	.0416987	-.004289	.3022888	.0326417	.6777110

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.255589	2.860000	-.085503	.0054450	.8107600	2.160991	.0438074
Stddev	.157452	.042478	.001616	.0010573	.0165167	.006456	.0015824
%RSD	6.980547	1.485237	1.890430	19.41747	2.037187	.2987435	3.612088
#1	2.338671	2.811006	-.086552	.0042286	.7917331	2.161786	.0428355
#2	2.073997	2.886522	-.083642	.0061427	.8214068	2.154175	.0429534
#3	2.354100	2.882471	-.086317	.0059639	.8191401	2.167013	.0456332

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: P5122-12LX5 Acquired: 01/06/2025 2:23:49 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMC9L Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.2668781	.1948102	.0269914
Stddev	.0040437	.0017161	.0031171
%RSD	1.515207	.8808836	11.54850
#1	.2624239	.1931646	.0276038
#2	.2678918	.1946770	.0297568
#3	.2703185	.1965890	.0236135

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1828.176	18110.69	1707.784	1327.502	1929.597
Stddev	20.626	82.36	4.494	5.761	27.406
%RSD	1.128224	.4547629	.2631537	.4339693	1.420274
#1	1851.273	18015.90	1703.874	1333.999	1960.863
#2	1821.660	18151.45	1712.694	1325.490	1918.194
#3	1811.595	18164.72	1706.784	1323.017	1909.733

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: P5122-14 Acquired: 01/06/2025 2:27:42 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMC9S Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2172708	.0567021	4.963391	.2299598	.2082995	60.54576
Stddev	.0036704	.0027479	.043206	.0066853	.0032324	.42970
%RSD	1.689306	4.846178	.8704954	2.907161	1.551820	.7097131
#1	.2212257	.0536162	4.986012	.2267546	.2071659	60.21779
#2	.2166127	.0576056	4.913571	.2376443	.2057866	61.03219
#3	.2139740	.0588845	4.990590	.2254807	.2119461	60.38729

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.286907	.0940722	.1011542	433.4341	.5258011	1.077084
Stddev	.010297	.0004707	.0007340	2.0621	.0020572	.009322
%RSD	.1947554	.5003929	.7255834	.4757650	.3912591	.8654847
#1	5.278249	.0939987	.1015804	431.6952	.5273765	1.081922
#2	5.298293	.0945754	.1003067	435.7123	.5265533	1.066337
#3	5.284177	.0936425	.1015755	432.8947	.5234737	1.082992

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7883991	213.5897	7.500584	68.73085	1.197860	.0480868
Stddev	.0089206	1.1078	.039663	.62008	.011358	.0009989
%RSD	1.131486	.5186736	.5287963	.9021815	.9482257	2.077376
#1	.7786578	213.0130	7.460592	68.29518	1.202662	.0469491
#2	.7961695	214.8669	7.539909	69.44076	1.184889	.0484906
#3	.7903699	212.8891	7.501252	68.45661	1.206028	.0488206

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.443063	1.109316	3.827692	10.68452	F 15.21123	-.381195
Stddev	.008944	.006222	.026480	.15388	.15437	.005807
%RSD	.6197950	.5608933	.6918096	1.440240	1.014825	1.523255
#1	1.436943	1.106270	3.799973	10.74026	15.27098	-.376561
#2	1.453327	1.105204	3.852730	10.80277	15.03592	-.387709
#3	1.438917	1.116474	3.830374	10.51054	15.32680	-.379316

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: P5122-14 Acquired: 01/06/2025 2:27:42 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMC9S Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0105837	4.306944	9.769317	.2241339	1.254972	.8936692
Stddev	.0005622	.032036	.057430	.0035227	.009069	.0050742
%RSD	5.311539	.7438144	.5878587	1.571712	.7226640	.5677943
#1	.0105388	4.320703	9.726359	.2242589	1.258516	.8895396
#2	.0111670	4.270327	9.834547	.2205504	1.261734	.8993336
#3	.0100454	4.329802	9.747045	.2275925	1.244666	.8921345

Elem	Li6707
Units	ppm
Avg	.1123946
Stddev	.0046700
%RSD	4.154991
#1	.1161703
#2	.1071726
#3	.1138409

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1963.225	19616.65	1880.724	1423.616	1796.060
Stddev	15.765	27.58	8.949	7.573	11.796
%RSD	.8030257	.1405780	.4758507	.5319668	.6567687
#1	1964.060	19586.91	1886.538	1431.301	1794.674
#2	1978.557	19621.69	1870.418	1416.160	1808.488
#3	1947.059	19641.37	1885.215	1423.386	1785.018

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: P5124-19 Acquired: 01/06/2025 2:31:28 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHM88 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1283934	-.017460	.7783910	.0509588	.0243134	51.79593	.6364736
Stddev	.0018547	.003141	.0089727	.0012355	.0008469	.90439	.0104902
%RSD	1.444519	17.98986	1.152730	2.424586	3.483043	1.746057	1.648167
#1	.1299842	-.017974	.7680747	.0517460	.0239901	52.83484	.6483791
#2	.1288397	-.020313	.7827182	.0495347	.0252743	51.18478	.6324539
#3	.1263563	-.014094	.7843801	.0515956	.0236759	51.36816	.6285877

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0076893	.0023084	76.22543	.0720645	.0749471	.1422893	107.5330
Stddev	.0002839	.0000801	1.41816	.0007756	.0008041	.0066503	1.9246
%RSD	3.692783	3.470479	1.860485	1.076265	1.072852	4.673762	1.789817
#1	.0079916	.0023553	77.81003	.0716344	.0741350	.1448969	109.7548
#2	.0076481	.0022159	75.79085	.0729598	.0757429	.1347304	106.4664
#3	.0074282	.0023540	75.07540	.0715992	.0749636	.1472405	106.3778

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.033305	22.13564	.1264533	-.008846	.9067755	.1474572	.5190899
Stddev	.042662	.49270	.0008634	.000128	.0391282	.0020922	.0034393
%RSD	2.098171	2.225805	.6827936	1.441281	4.315087	1.418884	.6625720
#1	2.082336	22.70238	.1257886	-.008741	.9481281	.1463684	.5152249
#2	2.004659	21.89540	.1274291	-.008988	.9018626	.1461339	.5218132
#3	2.012921	21.80915	.1261420	-.008809	.8703358	.1498693	.5202316

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.781259	4.339401	-.147910	.0120542	4.811873	7.966152	.0415963
Stddev	.294348	.030053	.003350	.0002084	.036080	.171944	.0023955
%RSD	7.784399	.6925499	2.265205	1.728828	.7498105	2.158433	5.758930
#1	4.120003	4.304712	-.151764	.0119056	4.772616	8.164058	.0424990
#2	3.587800	4.355933	-.146274	.0119646	4.843582	7.853429	.0434093
#3	3.635974	4.357557	-.145692	.0122924	4.819419	7.880968	.0388806

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: P5124-19 Acquired: 01/06/2025 2:31:28 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHM88 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	1.408613	.3340645	.0635991
Stddev	.032933	.0059045	.0029086
%RSD	2.337961	1.767485	4.573310
#1	1.446636	.3408063	.0655965
#2	1.390145	.3298135	.0649388
#3	1.389059	.3315737	.0602621

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1980.133	19690.41	1848.362	1445.650	1995.726
Stddev	13.093	165.47	32.980	11.635	13.444
%RSD	.6612084	.8403396	1.784289	.8048310	.6736252
#1	1995.221	19815.01	1810.280	1458.300	2010.870
#2	1973.417	19502.67	1867.650	1435.406	1985.198
#3	1971.760	19753.55	1867.154	1443.245	1991.112

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: P5124-20 Acquired: 01/06/2025 2:35:18 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHM88D Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1249485	-.017501	.7972927	.0514136	.0251901	52.29420	.6405386
Stddev	.0020326	.002284	.0017645	.0024330	.0014722	.34890	.0060295
%RSD	1.626736	13.05160	.2213161	4.732160	5.844502	.6671830	.9413167
#1	.1251953	-.020060	.7985529	.0538159	.0248861	52.59392	.6462044
#2	.1268465	-.015670	.7952761	.0489511	.0267906	51.91120	.6412099
#3	.1228038	-.016771	.7980492	.0514738	.0238936	52.37748	.6342016

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0076728	.0022310	71.43143	.0759944	.0766992	.1533429	115.0758
Stddev	.0001014	.0001077	.62541	.0004326	.0011500	.0063144	1.0663
%RSD	1.321508	4.829555	.8755323	.5692835	1.499327	4.117839	.9266227
#1	.0076498	.0022373	72.14542	.0758603	.0772574	.1583458	115.8881
#2	.0077837	.0023354	70.98069	.0764782	.0774636	.1462479	113.8683
#3	.0075849	.0021202	71.16816	.0756448	.0753767	.1554349	115.4711

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.253671	22.14584	.1314225	-.009128	.8740886	.1583975	.5197806
Stddev	.014529	.06748	.0015957	.000632	.0179318	.0005250	.0006094
%RSD	.6446737	.3047036	1.214217	6.923379	2.051485	.3314595	.1172318
#1	2.262237	22.16902	.1313966	-.008480	.8870059	.1582314	.5190854
#2	2.236896	22.06983	.1298399	-.009163	.8816445	.1579757	.5200343
#3	2.261881	22.19868	.1330311	-.009742	.8536155	.1589855	.5202220

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.023172	4.290906	-.172069	.0118892	5.045452	7.949060	.0413321
Stddev	.138025	.003162	.003586	.0003696	.004611	.072931	.0010301
%RSD	3.430745	.0737024	2.084319	3.108596	.0913911	.9174808	2.492143
#1	4.163302	4.288245	-.169546	.0114971	5.048334	8.028653	.0421013
#2	4.018862	4.294402	-.176175	.0119392	5.047888	7.933090	.0401619
#3	3.887353	4.290071	-.170487	.0122312	5.040134	7.885437	.0417332

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: P5124-20 Acquired: 01/06/2025 2:35:18 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHM88D Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	1.452913	.3028424	.0689569
Stddev	.004647	.0021922	.0035630
%RSD	.3198471	.7238725	5.167070
#1	1.457454	.3048542	.0661901
#2	1.448167	.3005060	.0677032
#3	1.453119	.3031671	.0729773

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1967.305	19684.32	1831.954	1448.460	1980.499
Stddev	5.605	46.51	13.251	6.420	4.823
%RSD	.2849255	.2362617	.7233530	.4432407	.2435466
#1	1964.798	19738.00	1817.232	1455.818	1976.170
#2	1973.727	19659.00	1835.701	1445.568	1985.699
#3	1963.392	19655.98	1842.928	1443.995	1979.627

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: P5124-19LX5 Acquired: 01/06/2025 2:39:06 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHM88L Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0269389	-.002969	.1548614	.0130733	.0033396	10.77414	.1297432
Stddev	.0041545	.001091	.0024141	.0035184	.0038094	.16766	.0033349
%RSD	15.42193	36.74013	1.558878	26.91297	114.0682	1.556104	2.570416
#1	.0256993	-.003360	.1574121	.0171278	.0054626	10.96723	.1308218
#2	.0315721	-.001737	.1526122	.0108222	-.001058	10.66557	.1260025
#3	.0235453	-.003811	.1545600	.0112699	.005615	10.68961	.1324054

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0015671	.0004635	15.80306	.0149523	.0195097	.0172809	22.40728
Stddev	.0000646	.0000667	.20345	.0006707	.0001361	.0098925	.17565
%RSD	4.121750	14.39871	1.287429	4.485442	.6978072	57.24560	.7838896
#1	.0015335	.0005392	16.02871	.0156601	.0193958	.0068376	22.60874
#2	.0016416	.0004134	15.74682	.0148706	.0194727	.0184943	22.28625
#3	.0015262	.0004379	15.63364	.0143262	.0196605	.0265107	22.32684

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4320616	4.708524	.0229084	-.002217	.2037097	.0249714	.1123113
Stddev	.0034851	.099093	.0010865	.000809	.0071220	.0036584	.0019640
%RSD	.8066261	2.104546	4.742780	36.51191	3.496126	14.65024	1.748702
#1	.4360822	4.729438	.0241104	-.002284	.2073952	.0221457	.1111042
#2	.4299025	4.600642	.0226186	-.001376	.2082337	.0236647	.1145775
#3	.4302001	4.795490	.0219961	-.002990	.1955002	.0291036	.1112523

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8267623	.8321130	-.029622	.0017909	.9299072	1.673916	.0070988
Stddev	.2278456	.0020528	.003051	.0005264	.0082786	.019056	.0008790
%RSD	27.55878	.2466984	10.29927	29.39307	.8902632	1.138419	12.38285
#1	1.064253	.8302288	-.028590	.0023371	.9301600	1.680903	.0080871
#2	.806060	.8318096	-.033055	.0012869	.9215051	1.688493	.0068054
#3	.609974	.8343007	-.027220	.0017487	.9380565	1.652353	.0064040

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: P5124-19LX5 Acquired: 01/06/2025 2:39:06 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHM88L Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.2847148	.0697178	.0178413
Stddev	.0042490	.0006348	.0067209
%RSD	1.492363	.9105139	37.67062
#1	.2895893	.0704343	.0167320
#2	.2817943	.0692255	.0117440
#3	.2827608	.0694938	.0250478

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1838.023	18322.93	1694.501	1347.485	2013.804
Stddev	2.767	134.34	19.605	10.894	1.729
%RSD	.1505602	.7331590	1.156964	.8084514	.0858602
#1	1838.828	18427.53	1671.982	1359.509	2012.568
#2	1840.298	18369.82	1703.756	1344.671	2015.780
#3	1834.942	18171.43	1707.764	1338.274	2013.064

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: P5124-21 Acquired: 01/06/2025 2:43:03 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHM88S Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2079468	.0693452	.8172742	.2028088	.1818466	54.89871	4.180718
Stddev	.0033242	.0074838	.0061754	.0046671	.0033885	.23257	.017723
%RSD	1.598567	10.79212	.7556121	2.301245	1.863401	.4236294	.4239228
#1	.2099238	.0608442	.8174067	.2072498	.1857488	54.99138	4.181718
#2	.2041090	.0722514	.8233823	.2032320	.1796466	55.07066	4.197921
#3	.2098076	.0749401	.8110336	.1979444	.1801445	54.63410	4.162517

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0969781	.0935308	75.90785	.4514061	1.011672	.5793876	109.0652
Stddev	.0002351	.0003027	.32422	.0018042	.001282	.0144231	.6777
%RSD	.2424300	.3236318	.4271284	.3996724	.1267555	2.489363	.6213823
#1	.0972220	.0936688	76.09524	.4495351	1.011550	.5915374	108.9676
#2	.0967529	.0931837	76.09484	.4515481	1.010455	.5831773	109.7864
#3	.0969595	.0937398	75.53347	.4531350	1.013011	.5634480	108.4416

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.938991	22.05743	1.082695	.0543217	.9069213	1.026340	1.332553
Stddev	.012048	.10911	.001549	.0008376	.0291988	.007855	.004820
%RSD	.4099491	.4946441	.1430901	1.541952	3.219554	.7653573	.3616854
#1	2.933869	21.93223	1.082087	.0552780	.9253340	1.020195	1.327408
#2	2.952754	22.10791	1.081542	.0539692	.9221750	1.035190	1.333289
#3	2.930350	22.13216	1.084456	.0537180	.8732547	1.023635	1.336963

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.967992	4.383684	-.153681	.0112870	4.868950	7.992328	.0418241
Stddev	.136918	.007691	.003255	.0008720	.004461	.040005	.0005449
%RSD	3.450564	.1754484	2.117929	7.725665	.0916297	.5005479	1.302721
#1	3.893578	4.385658	-.157357	.0102974	4.864367	8.031203	.0414391
#2	4.126003	4.375198	-.152524	.0116209	4.869204	7.994498	.0424475
#3	3.884395	4.390196	-.151164	.0119426	4.873279	7.951281	.0415856

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: P5124-21 Acquired: 01/06/2025 2:43:03 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHM88S Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	1.401548	.3305785	.0691072
Stddev	.009250	.0017371	.0034538
%RSD	.6599555	.5254748	4.997691
#1	1.406160	.3318717	.0679608
#2	1.407585	.3312596	.0729883
#3	1.390899	.3286040	.0663724

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1944.416	19506.67	1831.778	1428.851	1955.006
Stddev	7.628	35.10	14.464	1.272	5.860
%RSD	.3923129	.1799345	.7896041	.0890554	.2997629
#1	1939.134	19469.31	1816.365	1428.483	1948.636
#2	1940.952	19511.74	1833.916	1427.804	1956.212
#3	1953.161	19538.96	1845.055	1430.267	1960.170

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: P5129-01 Acquired: 01/06/2025 2:46:49 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMK3 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1919328	-.021975	2.384032	.0974612	.0358864	71.39113
Stddev	.0035877	.002341	.006463	.0007849	.0017775	.52960
%RSD	1.869226	10.65486	.2710780	.8053024	4.953020	.7418231
#1	.1955759	-.019815	2.384377	.0973294	.0374470	71.69338
#2	.1918192	-.024463	2.377404	.0967506	.0339516	70.77962
#3	.1884033	-.021648	2.390315	.0983036	.0362605	71.70040

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.508545	.0074367	.0074938	62.61625	.1421166	.1367250
Stddev	.005600	.0002163	.0000780	.18394	.0027660	.0008000
%RSD	.3712476	2.908864	1.040461	.2937626	1.946306	.5851461
#1	1.509667	.0073918	.0074942	62.79583	.1407343	.1376002
#2	1.513500	.0076720	.0075715	62.62469	.1403142	.1365436
#3	1.502469	.0072464	.0074156	62.42823	.1453013	.1360312

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4072669	174.1965	17.37824	19.59920	.2129201	-.006674
Stddev	.0085211	.9441	.07628	.17088	.0024096	.000197
%RSD	2.092257	.5419855	.4389392	.8718862	1.131676	2.945137
#1	.4023477	174.7334	17.40864	19.42814	.2154326	-.006501
#2	.4023468	173.1063	17.29145	19.59955	.2106287	-.006888
#3	.4171062	174.7498	17.43463	19.76990	.2126992	-.006634

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5214309	.1909059	1.512544	10.66889	F 11.54163	-.349730
Stddev	.0253627	.0072670	.028381	.20019	.03596	.004444
%RSD	4.864054	3.806572	1.876378	1.876403	.3115821	1.270648
#1	.5360098	.1946962	1.495148	10.86141	11.56186	-.354431
#2	.4921446	.1825274	1.497189	10.46182	11.50011	-.349162
#3	.5361381	.1954942	1.545294	10.68342	11.56292	-.345598

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: P5129-01 Acquired: 01/06/2025 2:46:49 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMK3 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0121648	3.464062	10.47623	.1838567	.7878969	.0809213
Stddev	.0001390	.010239	.05499	.0028142	.0059591	.0004460
%RSD	1.143006	.2955814	.5249419	1.530651	.7563287	.5511486
#1	.0120794	3.457628	10.53948	.1868950	.7947553	.0812385
#2	.0120898	3.458689	10.44946	.1833356	.7839850	.0811141
#3	.0123252	3.475869	10.43975	.1813395	.7849504	.0804114

Elem	Li6707
Units	ppm
Avg	.1001776
Stddev	.0031579
%RSD	3.152314
#1	.1014566
#2	.0965808
#3	.1024953

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2197.545	21773.66	2055.257	1596.990	1933.188
Stddev	1.349	325.51	9.698	26.330	5.525
%RSD	.0613900	1.494955	.4718443	1.648702	.2857820
#1	2196.689	21929.55	2044.155	1611.425	1927.670
#2	2196.847	21991.91	2062.078	1612.946	1938.719
#3	2199.100	21399.53	2059.537	1566.600	1933.176

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: P5129-02 Acquired: 01/06/2025 2:50:37 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMK3D Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2046307	-.019717	2.428719	.0955997	.0393157	72.33562
Stddev	.0054771	.001506	.003947	.0026986	.0037437	.15479
%RSD	2.676583	7.638130	.1624933	2.822845	9.522046	.2139914
#1	.2076792	-.020661	2.433254	.0942974	.0379004	72.47741
#2	.1983077	-.020510	2.426066	.0937991	.0364861	72.17048
#3	.2079053	-.017981	2.426837	.0987025	.0435607	72.35897

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.534191	.0075295	.0076633	66.56362	.1433768	.1395255
Stddev	.000916	.0002449	.0000789	.14954	.0007165	.0007422
%RSD	.0597206	3.251929	1.029473	.2246500	.4997235	.5319762
#1	1.533366	.0075651	.0077541	66.61008	.1435694	.1402128
#2	1.534029	.0077545	.0076118	66.39637	.1425838	.1396253
#3	1.535177	.0072687	.0076238	66.68441	.1439774	.1387384

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4120236	177.3141	17.58915	20.03701	.2150447	-.006283
Stddev	.0077541	.5139	.03756	.10407	.0002629	.000551
%RSD	1.881958	.2898324	.2135449	.5193649	.1222496	8.775469
#1	.4057726	177.7749	17.62702	20.02033	.2147552	-.005987
#2	.4095974	176.7599	17.55190	19.94228	.2152685	-.005943
#3	.4207007	177.4073	17.58852	20.14840	.2151104	-.006919

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5122013	.2024885	1.515912	10.90992	F 11.73155	-.356928
Stddev	.0126574	.0153220	.007415	.13438	.01427	.001625
%RSD	2.471175	7.566860	.4891666	1.231755	.1216669	.4553754
#1	.5190762	.2051115	1.509878	10.81259	11.73976	-.356674
#2	.5199334	.2163296	1.524190	11.06324	11.71507	-.358665
#3	.4975941	.1860243	1.513667	10.85392	11.73983	-.355444

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: P5129-02 Acquired: 01/06/2025 2:50:37 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMK3D Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0116960	3.488438	10.16176	.1853494	.7826720	.0840284
Stddev	.0006262	.003608	.02879	.0031930	.0083942	.0003661
%RSD	5.353605	.1034180	.2833017	1.722664	1.072501	.4357024
#1	.0118944	3.485329	10.17088	.1838924	.7849067	.0836057
#2	.0109947	3.492393	10.18489	.1890110	.7733866	.0842430
#3	.0121990	3.487592	10.12952	.1831449	.7897227	.0842365

Elem	Li6707
Units	ppm
Avg	.1033211
Stddev	.0005133
%RSD	.4968413
#1	.1039038
#2	.1029357
#3	.1031237

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2201.017	21962.50	2061.742	1619.640	1928.925
Stddev	6.029	14.71	6.713	6.107	7.480
%RSD	.2739115	.0669951	.3256108	.3770764	.3877896
#1	2202.403	21976.67	2060.710	1623.031	1931.561
#2	2194.416	21947.29	2055.605	1612.590	1920.484
#3	2206.232	21963.55	2068.912	1623.300	1934.731

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: P5129-01LX5 Acquired: 01/06/2025 2:54:25 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMK3L Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0378247	-.004108	.4550728	.0239319	.0068929	16.11075	.3379245
Stddev	.0073727	.001574	.0067675	.0005387	.0040081	.08121	.0046460
%RSD	19.49164	38.31526	1.487121	2.251068	58.14780	.5040656	1.374856
#1	.0450715	-.004934	.4628274	.0233797	.0113467	16.19931	.3404292
#2	.0303323	-.005097	.4520318	.0239600	.0057553	16.09316	.3407807
#3	.0380704	-.002293	.4503593	.0244561	.0035766	16.03978	.3325636

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0018737	.0013591	14.01334	.0310529	.0304603	.0742782	39.10399
Stddev	.0000899	.0000425	.06680	.0013738	.0005087	.0086385	.12725
%RSD	4.799037	3.127516	.4767145	4.424122	1.669985	11.62992	.3254265
#1	.0017887	.0014048	14.04600	.0307550	.0306013	.0650953	39.19177
#2	.0018646	.0013207	13.93649	.0298524	.0298960	.0754964	39.16215
#3	.0019678	.0013518	14.05753	.0325512	.0308836	.0822429	38.95804

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.979509	4.409652	.0392041	-.002553	.1013983	.0363654	.3397802
Stddev	.012872	.028739	.0011065	.002144	.0126835	.0164362	.0040809
%RSD	.3234487	.6517258	2.822323	83.98445	12.50860	45.19742	1.201041
#1	3.970260	4.386843	.0403822	-.004309	.1160408	.0185860	.3397415
#2	3.994209	4.441930	.0381869	-.003186	.0943393	.0510057	.3357188
#3	3.974058	4.400181	.0390431	-.000163	.0938148	.0395044	.3438804

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.237431	2.171959	-.078963	.0029291	.6488811	2.381562	.0341261
Stddev	.128324	.009053	.001950	.0006815	.0011363	.021473	.0021269
%RSD	5.735339	.4167914	2.469089	23.26449	.1751140	.9016379	6.232345
#1	2.106070	2.164478	-.076734	.0033984	.6495095	2.374237	.0329433
#2	2.362486	2.182022	-.080352	.0021475	.6495643	2.405739	.0328536
#3	2.243737	2.169376	-.079803	.0032415	.6475694	2.364710	.0365815

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: P5129-01LX5 Acquired: 01/06/2025 2:54:25 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMK3L Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.1675423	.0184211	.0220988
Stddev	.0043336	.0002933	.0049111
%RSD	2.586588	1.592025	22.22346
#1	.1725267	.0181383	.0276799
#2	.1646661	.0187238	.0184376
#3	.1654342	.0184012	.0201789

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1879.253	18727.93	1742.128	1377.548	1995.367
Stddev	3.878	257.49	13.077	18.042	3.843
%RSD	.2063705	1.374920	.7506273	1.309740	.1925861
#1	1876.640	18570.05	1743.736	1370.537	1991.622
#2	1883.709	19025.06	1728.321	1398.043	1999.300
#3	1877.410	18588.67	1754.326	1364.062	1995.178

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: P5129-03 Acquired: 01/06/2025 2:58:19 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMK3S Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2743665	.0637012	2.379686	.2362155	.1756184	73.14871
Stddev	.0053407	.0020871	.012009	.0038317	.0026215	.35899
%RSD	1.946548	3.276427	.5046374	1.622117	1.492710	.4907611
#1	.2690958	.0650128	2.366128	.2363595	.1752909	72.73441
#2	.2797745	.0612944	2.388983	.2323138	.1783882	73.34393
#3	.2742292	.0647963	2.383946	.2399732	.1731760	73.36777

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.702284	.0884673	.1013629	61.46812	.4879929	1.096416
Stddev	.017992	.0009109	.0004395	.25027	.0113947	.001605
%RSD	.3826187	1.029690	.4336434	.4071525	2.335015	.1464203
#1	4.681523	.0895182	.1008557	61.19751	.4820946	1.094573
#2	4.713334	.0879035	.1016001	61.69124	.5011277	1.097168
#3	4.711994	.0879801	.1016329	61.51561	.4807565	1.097508

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7812949	172.8770	17.86552	19.20592	1.192076	.0512321
Stddev	.0021110	.8554	.07135	.15176	.003363	.0011408
%RSD	.2701871	.4947799	.3993771	.7901674	.2821013	2.226633
#1	.7795943	172.0864	17.79937	19.18807	1.188219	.0505031
#2	.7806330	173.7850	17.94113	19.36582	1.194396	.0525467
#3	.7836575	172.7596	17.85607	19.06388	1.193611	.0506465

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5020192	1.004555	2.248905	10.45171	F 11.35721	-.345794
Stddev	.0338576	.005241	.049443	.04034	.03788	.005722
%RSD	6.744276	.5217546	2.198554	.3859609	.3335050	1.654805
#1	.5178287	1.010337	2.229552	10.41754	11.31665	-.351354
#2	.5250803	1.003211	2.305098	10.49621	11.36334	-.339922
#3	.4631487	1.000116	2.212067	10.44138	11.39165	-.346106

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: P5129-03 Acquired: 01/06/2025 2:58:19 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMK3S Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0123541	3.405206	10.37556	.1812046	.7694707	.0777360
Stddev	.0008860	.008624	.10374	.0032718	.0035898	.0002006
%RSD	7.171871	.2532499	.9998830	1.805568	.4665304	.2580007
#1	.0113536	3.414447	10.48741	.1849809	.7663819	.0778324
#2	.0126689	3.397372	10.35679	.1792203	.7686210	.0778702
#3	.0130397	3.403801	10.28248	.1794127	.7734091	.0775055

Elem	Li6707
Units	ppm
Avg	.1001262
Stddev	.0023255
%RSD	2.322588
#1	.1004413
#2	.1022782
#3	.0976593

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2189.633	21732.52	2056.437	1590.181	1938.779
Stddev	3.518	506.05	11.321	35.700	1.525
%RSD	.1606609	2.328525	.5505138	2.244998	.0786823
#1	2188.457	22172.65	2044.225	1614.398	1940.526
#2	2193.589	21179.59	2058.506	1549.183	1938.103
#3	2186.854	21845.33	2066.581	1606.961	1937.708

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: CCV119 Acquired: 01/06/2025 3:02:07 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV119 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.018524	4.939344	25.18194	5.007094	5.002540	397.0380
Stddev	.013359	.057872	.24505	.055864	.032839	9.1241
%RSD	.2661953	1.171656	.9731362	1.115702	.6564432	2.298036
#1	5.004518	4.904054	24.97944	4.956431	4.973636	386.5201
#2	5.019930	5.006133	25.45435	5.067006	5.038248	401.7686
#3	5.031125	4.907845	25.11202	4.997845	4.995736	402.8253

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.971137	.5041233	2.532507	400.4427	15.99238	2.558476
Stddev	.243153	.0067729	.025215	9.0868	.30496	.026441
%RSD	2.438573	1.343499	.9956623	2.269184	1.906893	1.033474
#1	9.695096	.4977548	2.512515	390.0831	16.34451	2.537089
#2	10.06472	.5033765	2.560834	404.1809	15.81636	2.588040
#3	10.15360	.5112387	2.524171	407.0642	15.81625	2.550299

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	14.94621	400.2899	14.75671	399.1740	2.552313	1.284196
Stddev	.34617	9.5536	.36464	9.5786	.024003	.020601
%RSD	2.316123	2.386664	2.471040	2.399604	.9404396	1.604227
#1	14.54943	389.2652	14.33605	388.1882	2.535003	1.307970
#2	15.10265	406.1374	14.98292	403.5561	2.579714	1.271587
#3	15.18655	405.4671	14.95115	405.7776	2.542222	1.273032

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	408.0934	2.454888	15.24807	151.0783	5.111797	F 4.384309
Stddev	8.9182	.035165	.35422	3.2881	.053172	.083417
%RSD	2.185344	1.432451	2.323069	2.176418	1.040182	1.902616
#1	401.1528	2.414491	15.65673	147.4761	5.069117	4.298611
#2	404.9755	2.471538	15.05849	151.8403	5.171361	4.389078
#3	418.1521	2.478637	15.02898	153.9185	5.094912	4.465239

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: CCV119 Acquired: 01/06/2025 3:02:07 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV119 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.956988	5.103388	4.946415	5.117832	4.943785	4.715027
Stddev	.028131	.054759	.074284	.051663	.114133	.107457
%RSD	.5674983	1.072990	1.501778	1.009464	2.308610	2.279025
#1	4.938180	5.065385	4.875690	5.073673	4.812010	4.591775
#2	4.989328	5.166154	4.939745	5.174646	5.007971	4.764253
#3	4.943457	5.078625	5.023809	5.105177	5.011373	4.789052

Elem	Li6707
Units	ppm
Avg	4.965505
Stddev	.122769
%RSD	2.472428
#1	4.823962
#2	5.029477
#3	5.043077

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1469.197	15594.13	1593.035	1065.431	1574.772
Stddev	9.389	219.29	27.861	21.533	16.445
%RSD	.6390742	1.406244	1.748937	2.021046	1.044289
#1	1475.461	15352.13	1624.251	1041.359	1587.511
#2	1458.402	15650.61	1584.167	1072.074	1556.207
#3	1473.729	15779.66	1570.688	1082.859	1580.599

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: CCB119 Acquired: 01/06/2025 3:05:52 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB119 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.001851	-.002241	.0041404	.0058495	-.000940	.0235308	-.003933
Stddev	.006220	.002664	.0015175	.0042352	.001750	.0243130	.002681
%RSD	336.0363	118.8619	36.65165	72.40185	186.1531	103.3243	68.17582
#1	-.004378	-.000021	.0056548	.0081434	-.001667	.0239768	-.005259
#2	-.006410	-.005195	.0041467	.0084429	-.002210	-.001002	-.005692
#3	.005235	-.001507	.0026198	.0009622	.001056	.047618	-.000847

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001628	.0001648	.0745597	.0007928	.0005573	-.005145	.0675721
Stddev	.0001580	.0000307	.0419944	.0001369	.0001296	.010759	.0061332
%RSD	97.06176	18.62224	56.32314	17.27004	23.24824	209.1053	9.076490
#1	-.000017	.0001867	.0556240	.0009337	.0007013	.007262	.0681740
#2	.000228	.0001780	.1226877	.0006603	.0004501	-.011898	.0611602
#3	.000277	.0001297	.0453674	.0007843	.0005206	-.010799	.0733821

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0046075	-.023251	-.000379	-.000324	.1603509	-.002983	.0056350
Stddev	.0007780	.020546	.000111	.000929	.0205612	.003810	.0008672
%RSD	16.88606	88.36874	29.19701	286.9891	12.82265	127.7402	15.38918
#1	.0044982	-.004273	-.000260	.000719	.1367906	-.005870	.0057856
#2	.0054343	-.020409	-.000398	-.000628	.1746707	-.004415	.0064171
#3	.0038898	-.045070	-.000479	-.001062	.1695913	.001336	.0047024

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0642579	.0002021	.0089825	-.000280	.0023134	.0001000	.0002213
Stddev	.1646741	.0004393	.0032214	.000979	.0032430	.0004994	.0011626
%RSD	256.2704	217.4053	35.86288	349.1226	140.1855	499.3261	525.3153
#1	-.048100	-.000258	.0126721	-.000410	.0004443	-.000471	.0011223
#2	.253288	.000617	.0067290	.000757	.0004377	.000318	.0006327
#3	-.012414	.000248	.0075463	-.001188	.0060580	.000453	-.001091

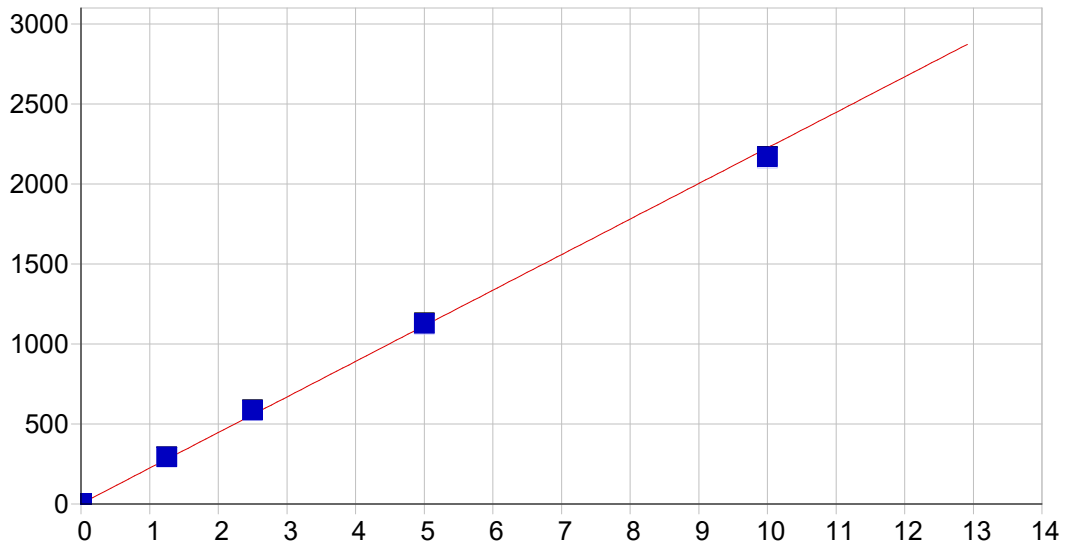
Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: CCB119 Acquired: 01/06/2025 3:05:52 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB119 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	-.000055	.0001655	.0090232
Stddev	.003596	.0003285	.0104967
%RSD	6590.278	198.5046	116.3298
#1	-.000428	.0003073	.0188038
#2	.003713	-.000210	-.002067
#3	-.003449	.000399	.010333

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1812.016	17625.66	1696.780	1292.211	2027.836
Stddev	40.369	244.90	103.419	14.342	45.039
%RSD	2.227869	1.389464	6.094992	1.109888	2.221017
#1	1858.405	17447.74	1806.948	1277.279	2079.712
#2	1784.859	17524.26	1601.789	1293.474	1998.716
#3	1792.784	17904.97	1681.603	1305.880	2005.081

Reviewed By:Mohan
On:1/8/2025 7:28:17 AM
Inst Id :P5



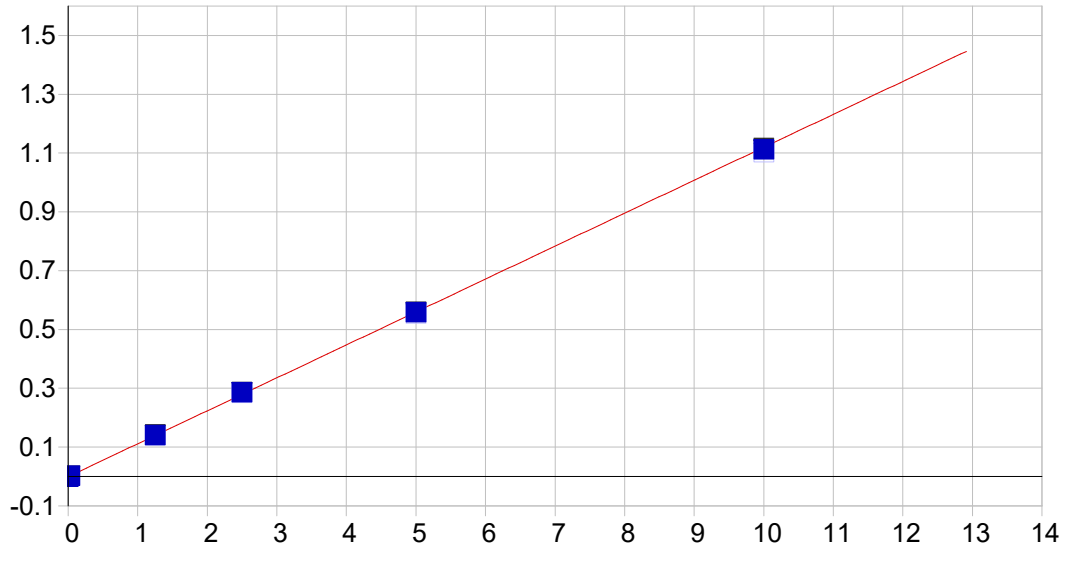
As 189.042 {478}

Date of Fit:	01/06/2025 14:35:23	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	1.851126	Re-Slope:	1.000000
A1 (Gain):	222.331718	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999548	Status:	OK.
Std Error of Est:	0.111602		
Predicted MDL:	0.004875		
Predicted MQL:	0.016251		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	1.8513	.620	1
S1	.01000	.00848	-.002	-15.2	3.7343	.535	1
S2	1.2500	1.3105	.061	4.84	292.06	.750	1
S3	2.5000	2.6290	.129	5.16	584.03	1.92	1
S4	5.0000	5.0617	.062	1.23	1122.5	4.72	1
S5	10.000	9.7503	-.250	-2.50	2160.3	3.14	1

Reviewed By:Mohan
On:1/8/2025 7:28:17 AM
Inst Id :P5



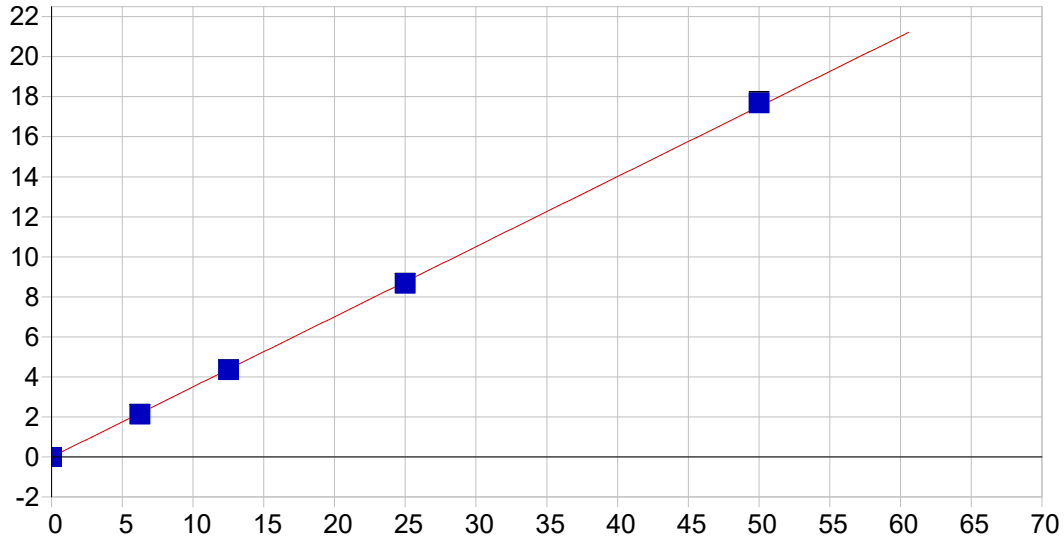
Tl 190.856 {477}

Date of Fit:	01/06/2025 14:35:23	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000618	Re-Slope:	1.000000
A1 (Gain):	0.112024	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999945	Status:	OK.
Std Error of Est:	0.000031		
Predicted MDL:	0.003253		
Predicted MQL:	0.010842		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00062	.000	1
S1	.02500	.02574	.001	2.95	.00216	.001	1
S2	1.2500	1.2615	.011	.916	.13949	.001	1
S3	2.5000	2.5606	.061	2.43	.28383	.000	1
S4	5.0000	4.9907	-.009	-.185	.55366	.001	1
S5	10.000	9.9365	-.064	-.635	1.1029	.005	1

Reviewed By:Mohan
On:1/8/2025 7:28:17 AM
Inst Id :P5



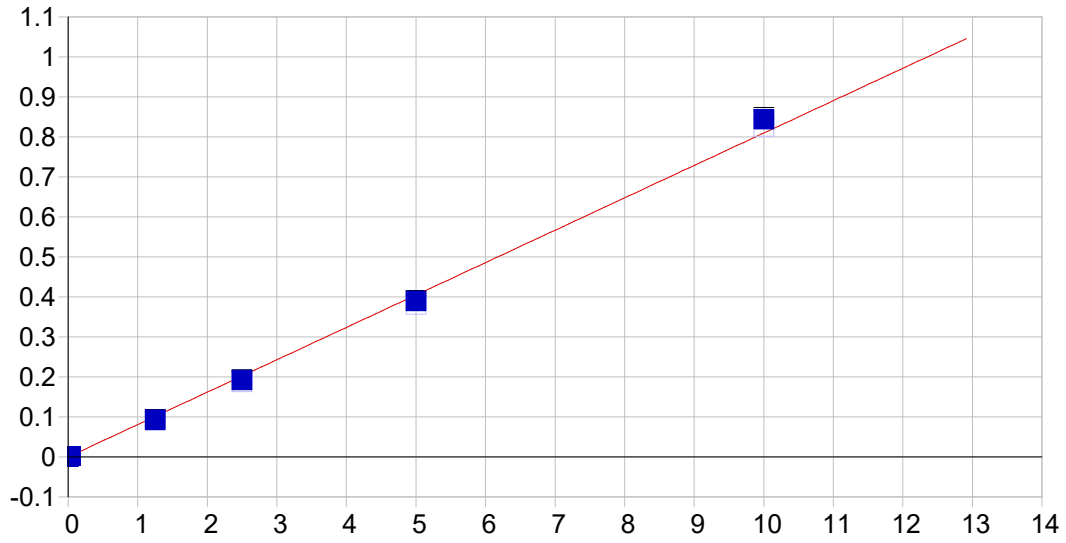
Pb 220.353 {453}

Date of Fit:	01/06/2025 14:35:23	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000953	Re-Slope:	1.000000
A1 (Gain):	0.350209	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999930	Status:	OK.
Std Error of Est:	0.000155		
Predicted MDL:	0.002852		
Predicted MQL:	0.009508		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	-.00095	.000	1
S1	.01000	.00789	-.002	-21.1	.00179	.001	1
S2	6.2500	6.0729	-.177	-2.83	2.1216	.003	1
S3	12.500	12.413	-.087	-.696	4.3378	.008	1
S4	25.000	24.770	-.230	-.920	8.6569	.005	1
S5	50.000	50.496	.496	.993	17.650	.087	1

Reviewed By:Mohan
On:1/8/2025 7:28:17 AM
Inst Id :P5



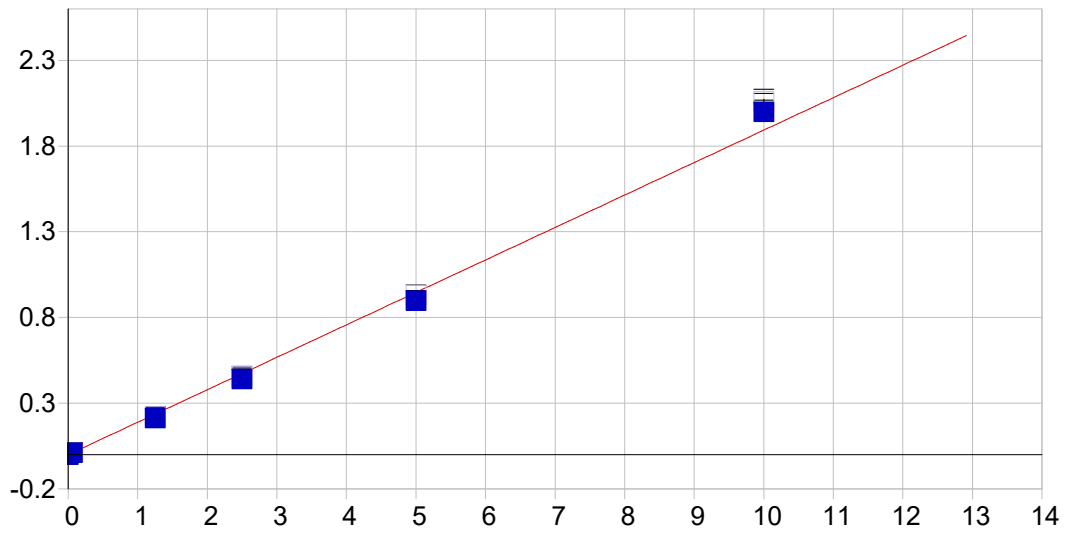
Se 196.090 {472}

Date of Fit:	01/06/2025 14:35:23	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000096	Re-Slope:	1.000000
A1 (Gain):	0.080970	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.998828	Status:	OK.
Std Error of Est:	0.000120		
Predicted MDL:	0.005903		
Predicted MQL:	0.019677		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00001	.000	.000	-.00010	.000	1
S1	.03500	.02735	-.008	-21.9	.00211	.000	1
S2	1.2500	1.1450	-.105	-8.40	.09034	.000	1
S3	2.5000	2.3725	-.127	-5.10	.18745	.001	1
S4	5.0000	4.8136	-.186	-3.73	.38055	.002	1
S5	10.000	10.427	.427	4.27	.82594	.005	1

Reviewed By:Mohan
On:1/8/2025 7:28:17 AM
Inst Id :P5



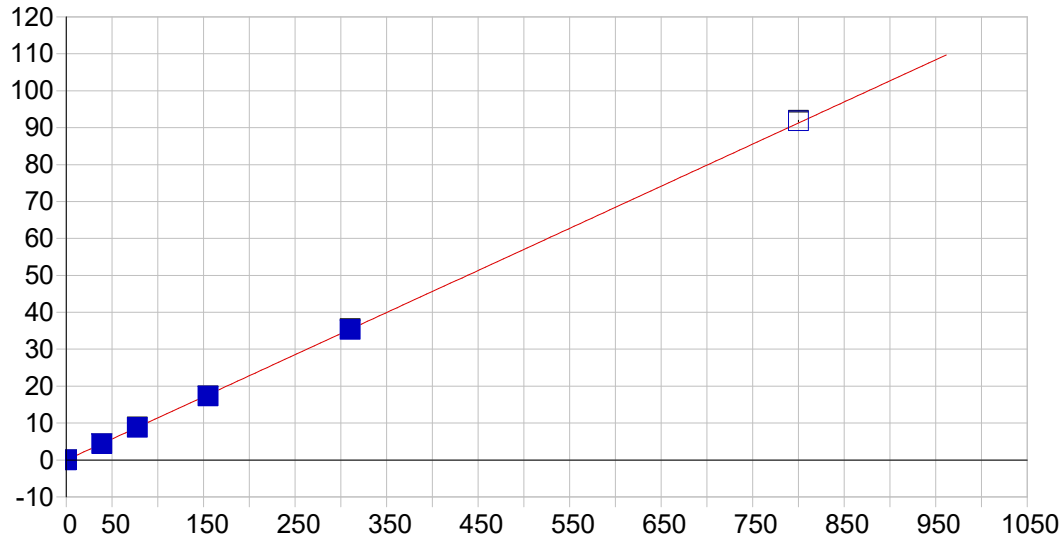
Sb 206.833 {463}

Date of Fit:	01/06/2025 14:35:23	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000234	Re-Slope:	1.000000
A1 (Gain):	0.189309	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.998303	Status:	OK.
Std Error of Est:	0.000469		
Predicted MDL:	0.003534		
Predicted MQL:	0.011779		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00001	.000	.000	-.00023	.001	1
S1	.06000	.05537	-.005	-7.72	.01025	.001	1
S2	1.2500	1.1282	-.122	-9.74	.22126	.001	1
S3	2.5000	2.3231	-.177	-7.07	.45538	.002	1
S4	5.0000	4.7475	-.252	-5.05	.93015	.002	1
S5	10.000	10.556	.556	5.56	2.0613	.012	1

Reviewed By:Mohan
On:1/8/2025 7:28:17 AM
Inst Id :P5



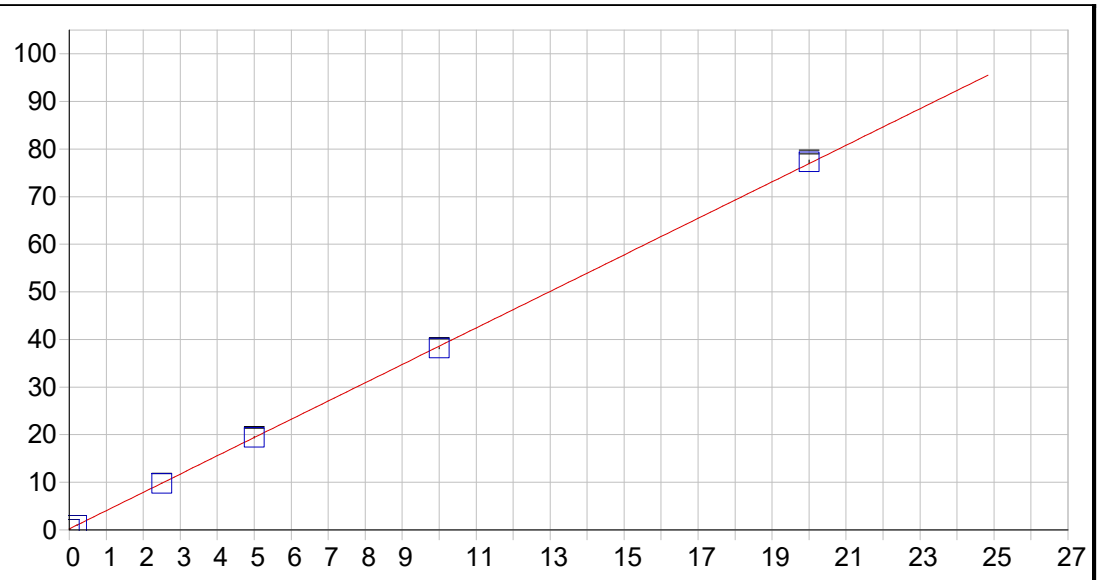
Al 396.152 { 85}

Date of Fit:	01/06/2025 14:35:23	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.004796	Re-Slope:	1.000000
A1 (Gain):	0.114085	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999955	Status:	OK.
Std Error of Est:	0.000670		
Predicted MDL:	0.035560		
Predicted MQL:	0.118532		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00004	-.000	.000	-.00480	.004	1
S1	.20000	.24918	.049	24.6	.02367	.004	1
S2	38.750	38.440	-.310	-.801	4.3854	.016	1
S3	77.500	77.081	-.419	-.540	8.7986	.067	1
S4	155.00	151.50	-3.50	-2.26	17.299	.030	1
S5	310.00	309.55	-.452	-.146	35.348	.161	1
S6	800.00	804.63	4.63	.579	91.792	.238	1

Reviewed By:Mohan
On:1/8/2025 7:28:17 AM
Inst Id :P5



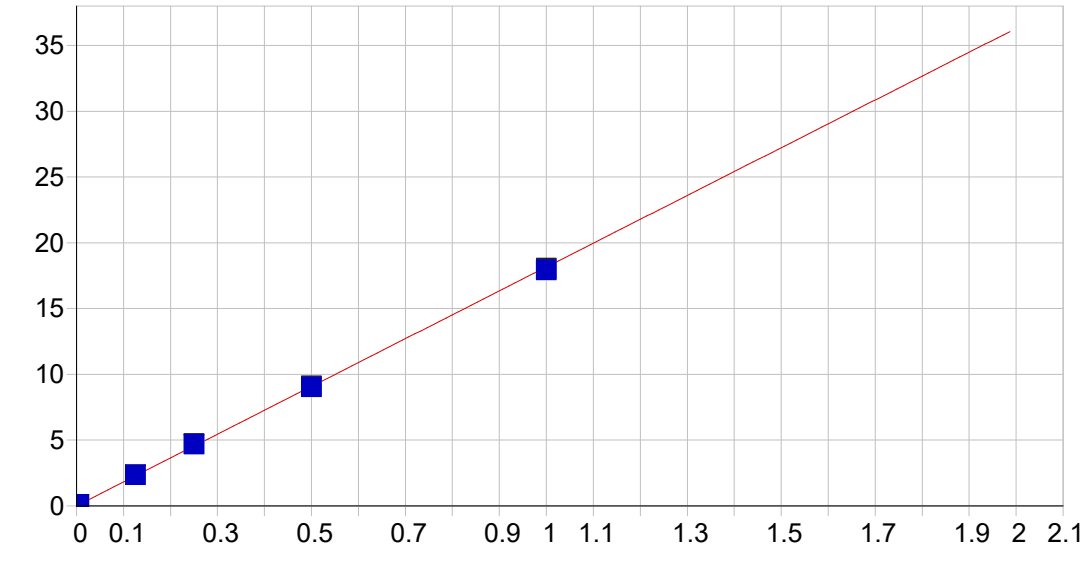
Ba 493.409 { 68}

Date of Fit:	01/06/2025 14:35:23	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.218192	Re-Slope:	1.000000
A1 (Gain):	3.837131	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999977	Status:	OK.
Std Error of Est:	0.002757		
Predicted MDL:	0.002612		
Predicted MQL:	0.008707		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.21817	.003	1
S1	.20000	.20595	.006	2.97	1.0084	.009	1
S2	2.5000	2.4918	-.008	-.326	9.7797	.012	1
S3	5.0000	5.0103	.010	.206	19.443	.155	1
S4	10.000	9.8974	-.103	-1.03	38.196	.148	1
S5	20.000	20.094	.094	.472	77.323	.393	1

Reviewed By:Mohan
On:1/8/2025 7:28:17 AM
Inst Id :P5



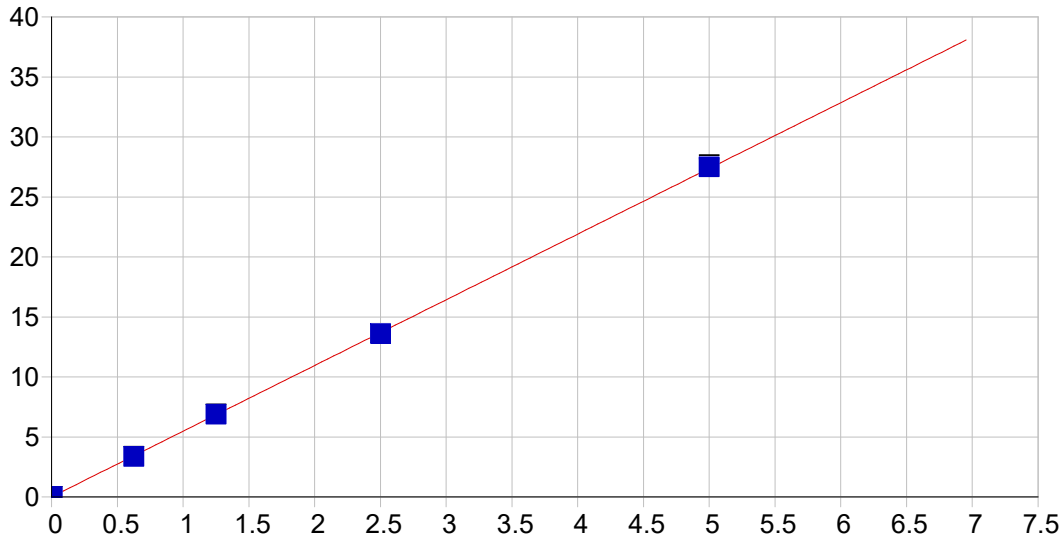
Be 234.861 {144}

Date of Fit:	01/06/2025 14:35:23	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.012886	Re-Slope:	1.000000
A1 (Gain):	18.145216	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999855	Status:	OK.
Std Error of Est:	0.001154		
Predicted MDL:	0.000142		
Predicted MQL:	0.000473		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.01288	.002	1
S1	.00500	.00523	.000	4.69	.10778	.004	1
S2	.12500	.12941	.004	3.53	2.3507	.013	1
S3	.25000	.25784	.008	3.14	4.6707	.034	1
S4	.50000	.49861	-.001	-.277	9.0187	.053	1
S5	1.0000	.98890	-.011	-1.11	17.873	.131	1

Reviewed By:Mohan
On:1/8/2025 7:28:17 AM
Inst Id :P5



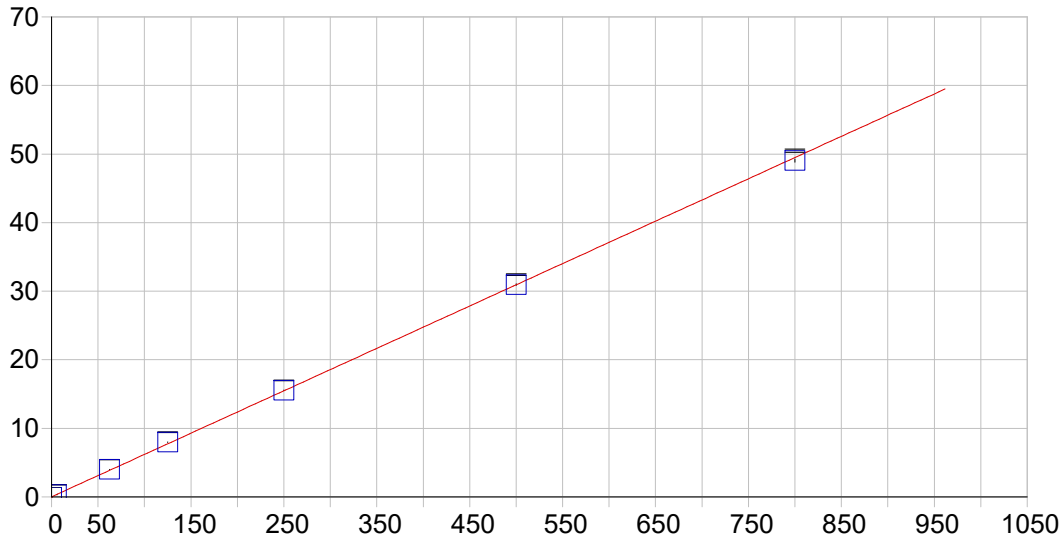
Cd 214.438 {457}

Date of Fit:	01/06/2025 14:35:23	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000814	Re-Slope:	1.000000
A1 (Gain):	5.475137	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999976	Status:	OK.
Std Error of Est:	0.000315		
Predicted MDL:	0.000099		
Predicted MQL:	0.000331		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00082	.001	1
S1	.00500	.00470	-.000	-6.04	.02664	.000	1
S2	.62500	.61402	-.011	-1.76	3.3679	.010	1
S3	1.2500	1.2574	.007	.588	6.8955	.017	1
S4	2.5000	2.4837	-.016	-.652	13.620	.008	1
S5	5.0000	5.0202	.020	.405	27.529	.150	1

Reviewed By:Mohan
On:1/8/2025 7:28:17 AM
Inst Id :P5



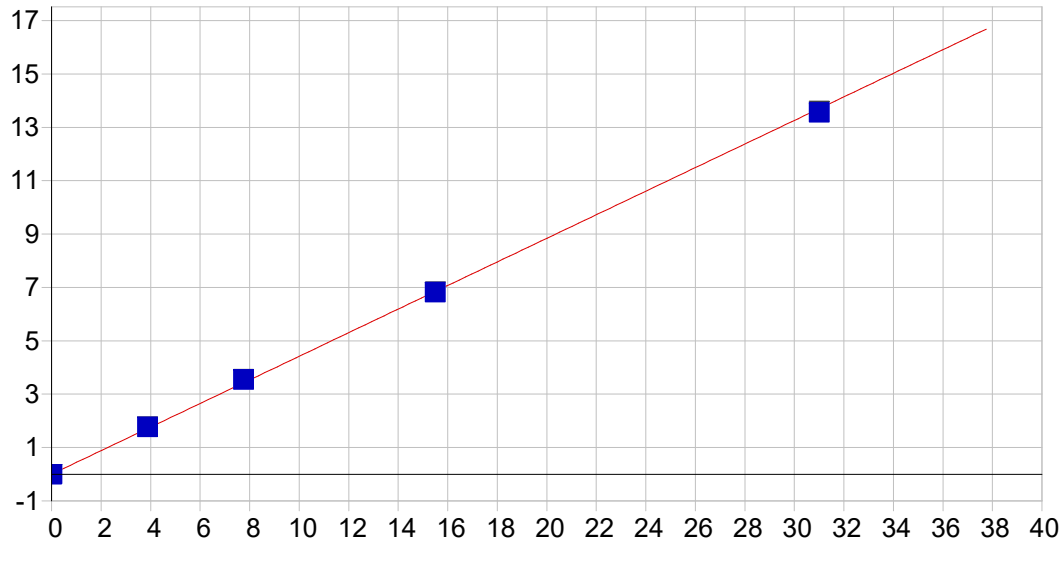
Ca 373.690 { 90}

Date of Fit:	01/06/2025 14:35:23	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.014721	Re-Slope:	1.000000
A1 (Gain):	0.061842	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999925	Status:	OK.
Std Error of Est:	0.002646		
Predicted MDL:	0.045912		
Predicted MQL:	0.153041		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00048	-.000	.000	.01469	.003	1
S1	5.0000	5.2033	.203	4.07	.33650	.005	1
S2	62.500	64.292	1.79	2.87	3.9907	.019	1
S3	125.00	129.09	4.09	3.27	7.9981	.050	1
S4	250.00	250.83	.831	.332	15.527	.053	1
S5	500.00	500.31	.305	.061	30.955	.105	1
S6	800.00	792.78	-7.22	-.903	49.042	.235	1

Reviewed By:Mohan
On:1/8/2025 7:28:17 AM
Inst Id :P5



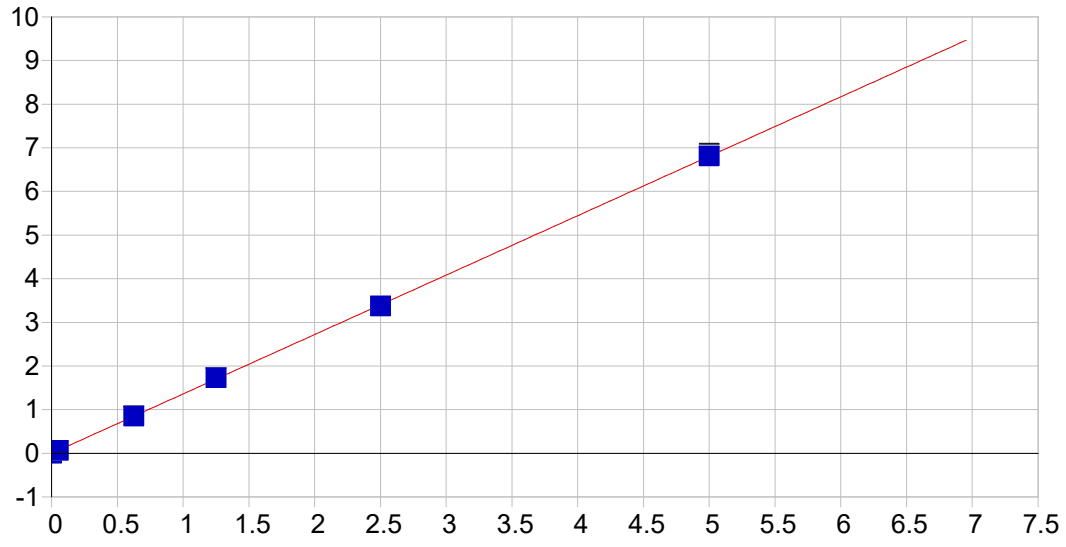
Cr 267.716 {126}

Date of Fit:	01/06/2025 14:35:23	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000065	Re-Slope:	1.000000
A1 (Gain):	0.441967	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999855	Status:	OK.
Std Error of Est:	0.000222		
Predicted MDL:	0.000940		
Predicted MQL:	0.003132		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00006	.000	1
S1	.01000	.01007	.000	.680	.00452	.000	1
S2	3.8750	4.0000	.125	3.22	1.7692	.007	1
S3	7.7500	8.0159	.266	3.43	3.5455	.008	1
S4	15.500	15.438	-.062	-.398	6.8286	.004	1
S5	31.000	30.671	-.329	-1.06	13.566	.041	1

Reviewed By:Mohan
On:1/8/2025 7:28:17 AM
Inst Id :P5



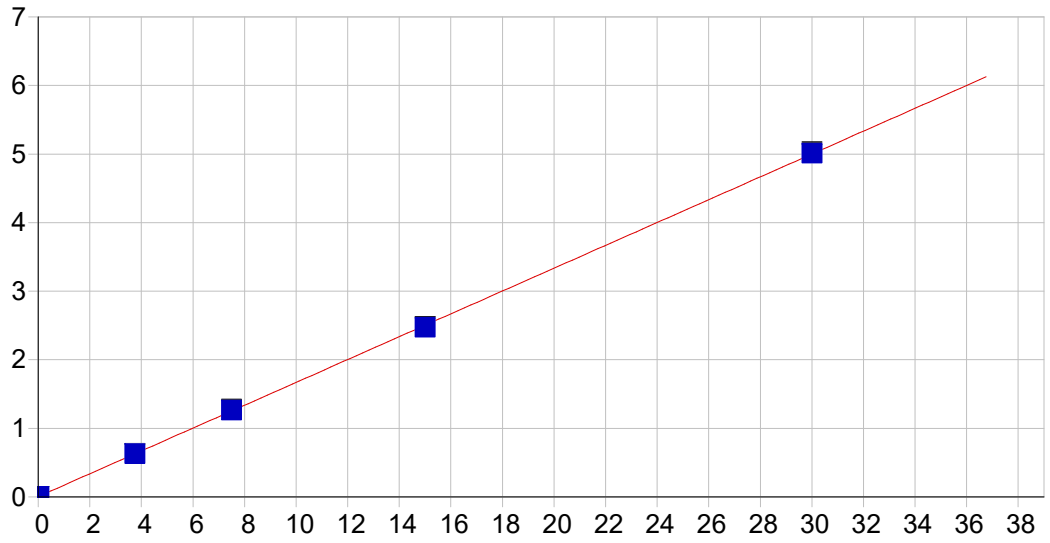
Co 228.616 {448}

Date of Fit:	01/06/2025 14:35:23	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.001530	Re-Slope:	1.000000
A1 (Gain):	1.361686	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999976	Status:	OK.
Std Error of Est:	0.000249		
Predicted MDL:	0.000429		
Predicted MQL:	0.001430		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00153	.000	1
S1	.05000	.05008	.000	.164	.06689	.000	1
S2	.62500	.62471	-.000	-.046	.85188	.003	1
S3	1.2500	1.2677	.018	1.41	1.7301	.004	1
S4	2.5000	2.4781	-.022	-.878	3.3838	.004	1
S5	5.0000	5.0045	.004	.090	6.8349	.038	1

Reviewed By:Mohan
On:1/8/2025 7:28:17 AM
Inst Id :P5



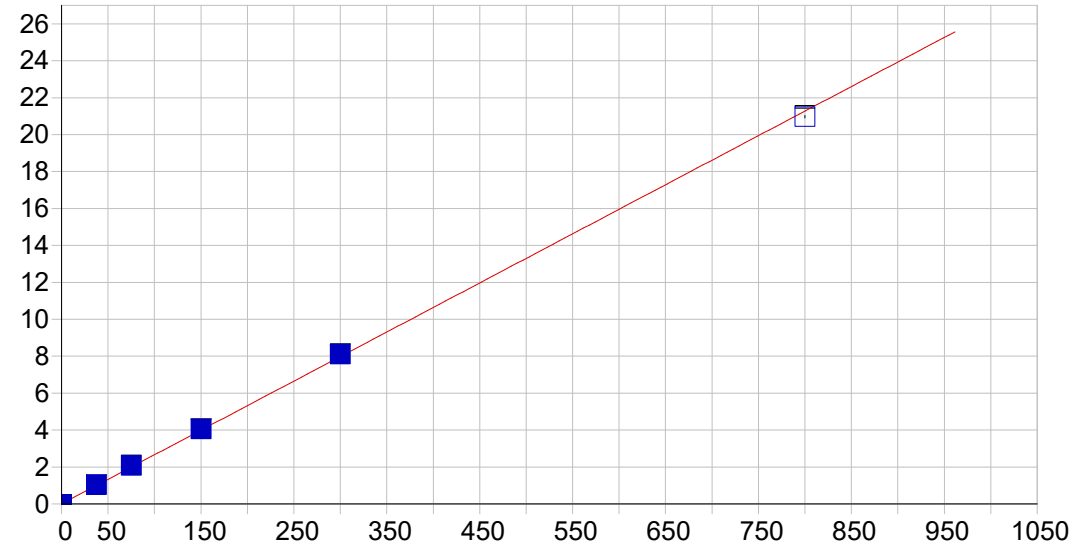
Cu 324.754 {104}

Date of Fit:	01/06/2025 14:35:23	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.004595	Re-Slope:	1.000000
A1 (Gain):	0.166534	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999973	Status:	OK.
Std Error of Est:	0.000057		
Predicted MDL:	0.010971		
Predicted MQL:	0.036570		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00460	.001	1
S1	.02500	.02248	-.003	-10.1	.00833	.002	1
S2	3.7500	3.7600	.010	.268	.63070	.003	1
S3	7.5000	7.5757	.076	1.01	1.2661	.014	1
S4	15.000	14.835	-.165	-1.10	2.4748	.010	1
S5	30.000	30.082	.082	.274	5.0137	.016	1

Reviewed By:Mohan
On:1/8/2025 7:28:17 AM
Inst Id :P5



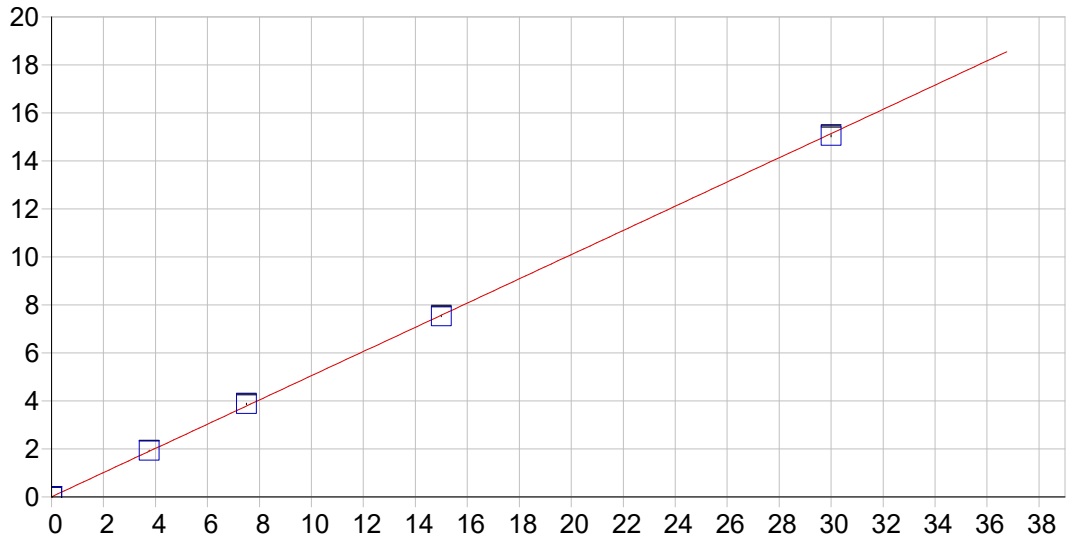
Fe 259.837 {130}

Date of Fit:	01/06/2025 14:35:23	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.001425	Re-Slope:	1.000000
A1 (Gain):	0.026589	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999828	Status:	OK.
Std Error of Est:	0.000215		
Predicted MDL:	0.039114		
Predicted MQL:	0.130379		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00003	-.000	.000	.00142	.001	1
S1	.10000	.12246	.022	22.5	.00468	.001	1
S2	37.500	38.865	1.36	3.64	1.0350	.002	1
S3	75.000	78.101	3.10	4.14	2.0785	.022	1
S4	150.00	152.50	2.50	1.67	4.0573	.014	1
S5	300.00	304.70	4.70	1.57	8.1049	.030	1
S6	800.00	788.31	-11.7	-1.46	20.962	.068	1

Reviewed By:Mohan
On:1/8/2025 7:28:17 AM
Inst Id :P5



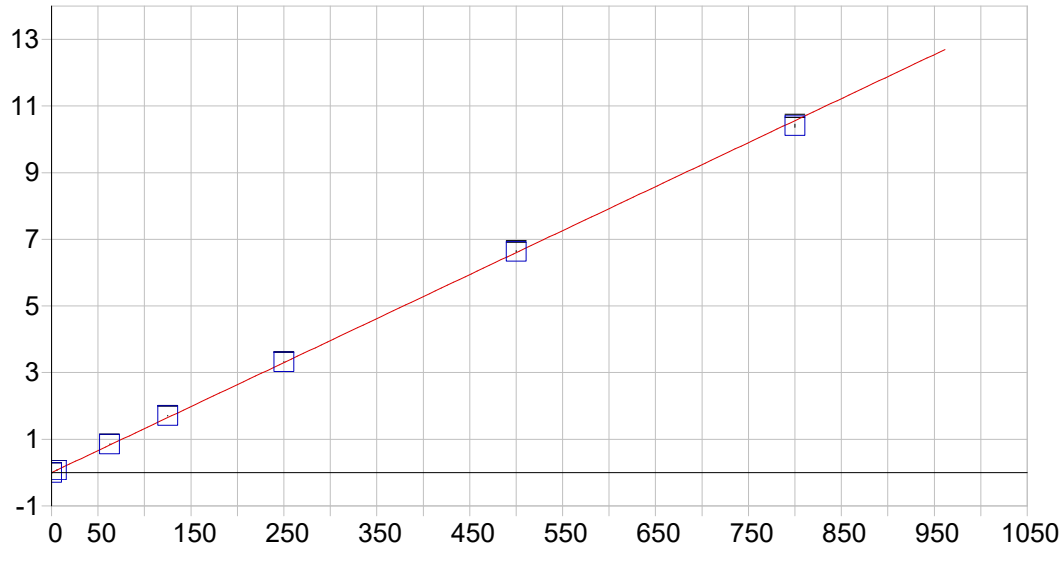
Mn 257.610 {131}

Date of Fit:	01/06/2025 14:35:23	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.003500	Re-Slope:	1.000000
A1 (Gain):	0.504537	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999929	Status:	OK.
Std Error of Est:	0.000214		
Predicted MDL:	0.002119		
Predicted MQL:	0.007065		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00350	.000	1
S1	.01500	.01948	.004	29.9	.01333	.002	1
S2	3.7500	3.8223	.072	1.93	1.9320	.012	1
S3	7.5000	7.6712	.171	2.28	3.8739	.032	1
S4	15.000	14.931	-.069	-.463	7.5365	.031	1
S5	30.000	29.822	-.178	-.595	15.050	.047	1

Reviewed By:Mohan
On:1/8/2025 7:28:17 AM
Inst Id :P5



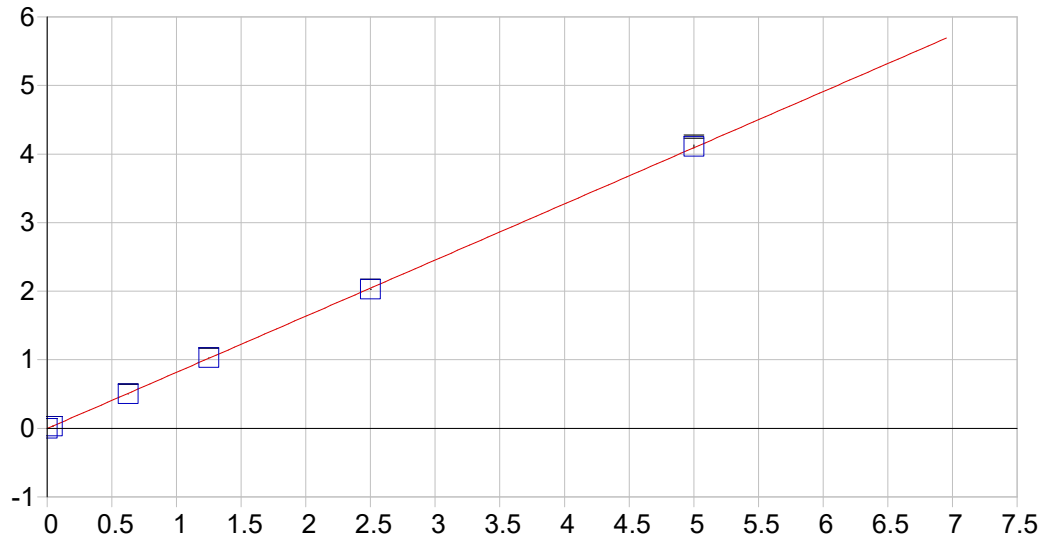
Mg 279.079 {121}

Date of Fit:	01/06/2025 14:35:23	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000724	Re-Slope:	1.000000
A1 (Gain):	0.013204	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999868	Status:	OK.
Std Error of Est:	0.000749		
Predicted MDL:	0.100679		
Predicted MQL:	0.335597		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00080	-.001	.000	-.00073	.001	1
S1	5.0000	5.4603	.460	9.21	.07137	.000	1
S2	62.500	64.674	2.17	3.48	.85321	.004	1
S3	125.00	129.30	4.30	3.44	1.7066	.012	1
S4	250.00	251.74	1.74	.694	3.3231	.011	1
S5	500.00	502.84	2.84	.568	6.6386	.027	1
S6	800.00	788.49	-11.5	-1.44	10.410	.051	1

Reviewed By:Mohan
On:1/8/2025 7:28:17 AM
Inst Id :P5



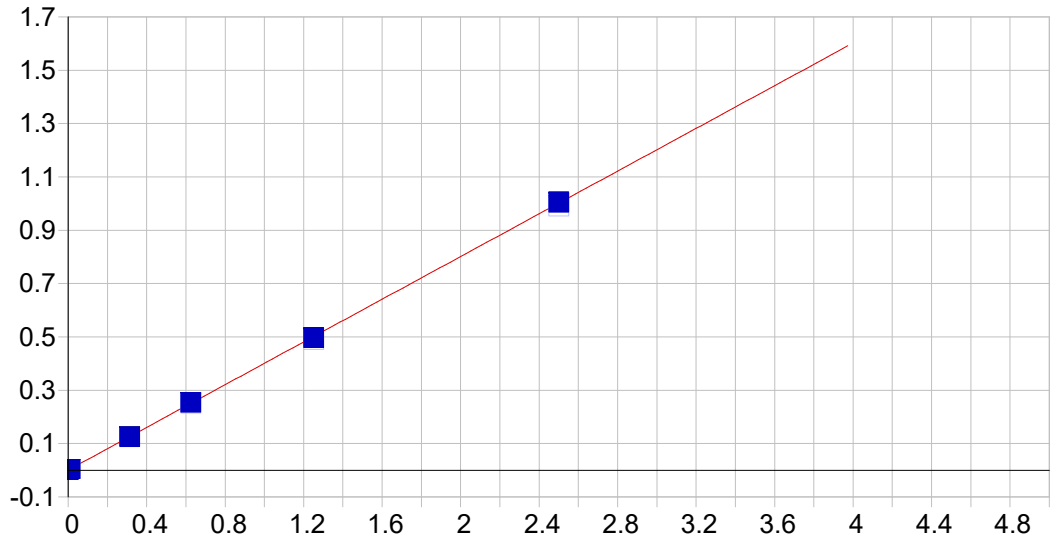
Ni 231.604 {446}

Date of Fit:	01/06/2025 14:35:23	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.002232	Re-Slope:	1.000000
A1 (Gain):	0.818781	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999972	Status:	OK.
Std Error of Est:	0.000144		
Predicted MDL:	0.000903		
Predicted MQL:	0.003011		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	-.00223	.000	1
S1	.04000	.03949	-.001	-1.28	.03010	.001	1
S2	.62500	.61392	-.011	-1.77	.50043	.001	1
S3	1.2500	1.2583	.008	.665	1.0281	.002	1
S4	2.5000	2.4803	-.020	-.789	2.0286	.001	1
S5	5.0000	5.0230	.023	.460	4.1105	.024	1

Reviewed By:Mohan
On:1/8/2025 7:28:17 AM
Inst Id :P5



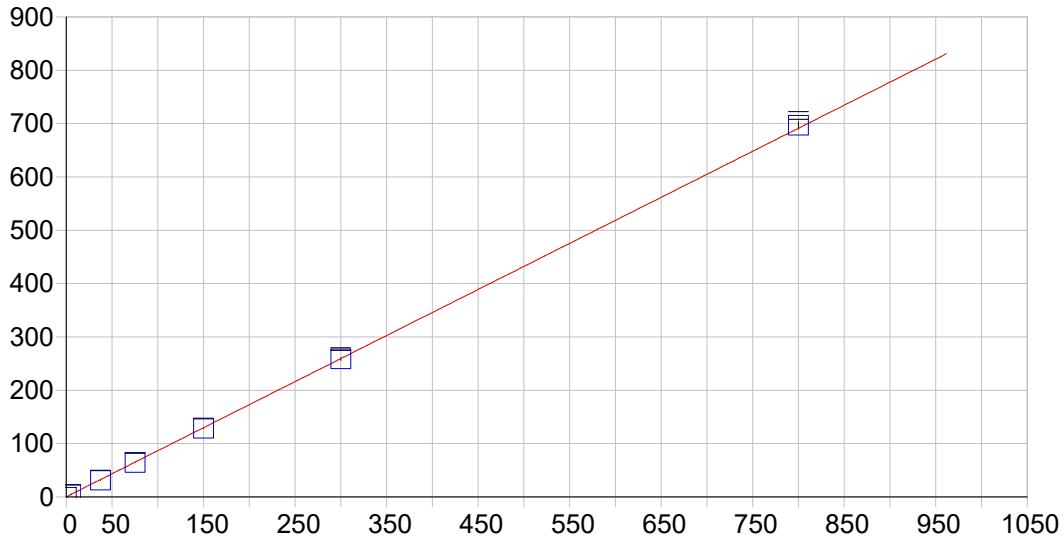
Ag 328.068 {103}

Date of Fit:	01/06/2025 14:35:23	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000672	Re-Slope:	1.000000
A1 (Gain):	0.400369	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999965	Status:	OK.
Std Error of Est:	0.000028		
Predicted MDL:	0.001763		
Predicted MQL:	0.005877		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00067	.001	1
S1	.01000	.00902	-.001	-9.82	.00428	.000	1
S2	.31250	.31239	-.000	-.036	.12394	.000	1
S3	.62500	.63234	.007	1.17	.25024	.000	1
S4	1.2500	1.2378	-.012	-.976	.48904	.001	1
S5	2.5000	2.5060	.006	.239	.98957	.003	1

Reviewed By:Mohan
On:1/8/2025 7:28:17 AM
Inst Id :P5



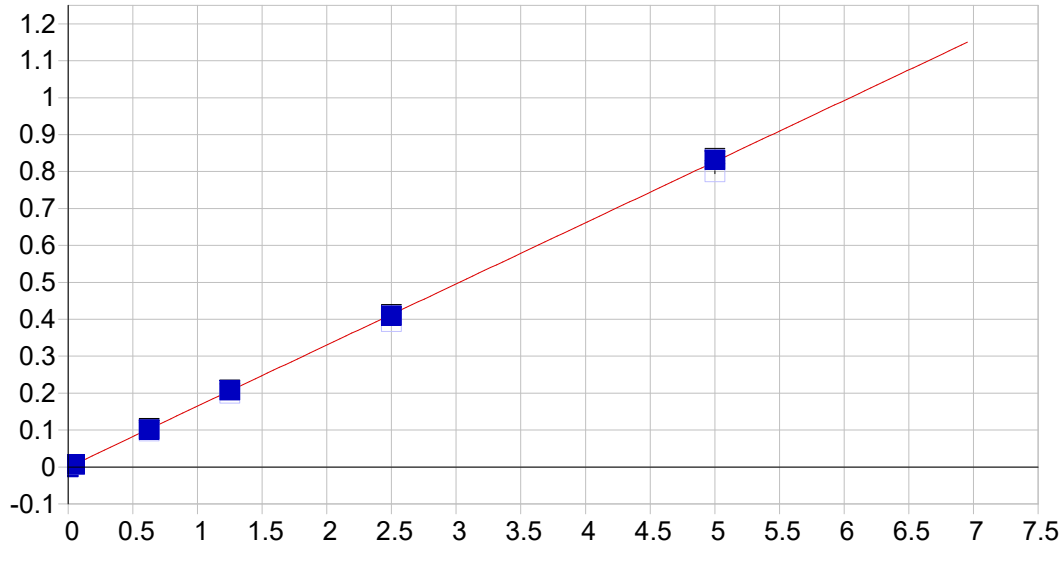
Na 818.326 { 41}

Date of Fit:	01/06/2025 14:35:23	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.268402	Re-Slope:	1.000000
A1 (Gain):	0.863736	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999921	Status:	OK.
Std Error of Est:	0.033624		
Predicted MDL:	0.019842		
Predicted MQL:	0.066140		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00077	.001	.000	.26907	.017	1
S1	5.0000	4.5959	-.404	-8.08	4.2380	.023	1
S2	37.500	35.579	-1.92	-5.12	30.999	.191	1
S3	75.000	73.759	-1.24	-1.65	63.977	.307	1
S4	150.00	148.52	-1.48	-.984	128.55	.592	1
S5	300.00	298.93	-1.07	-.357	258.46	2.32	1
S6	800.00	806.11	6.11	.764	696.54	7.27	1

Reviewed By:Mohan
On:1/8/2025 7:28:17 AM
Inst Id :P5



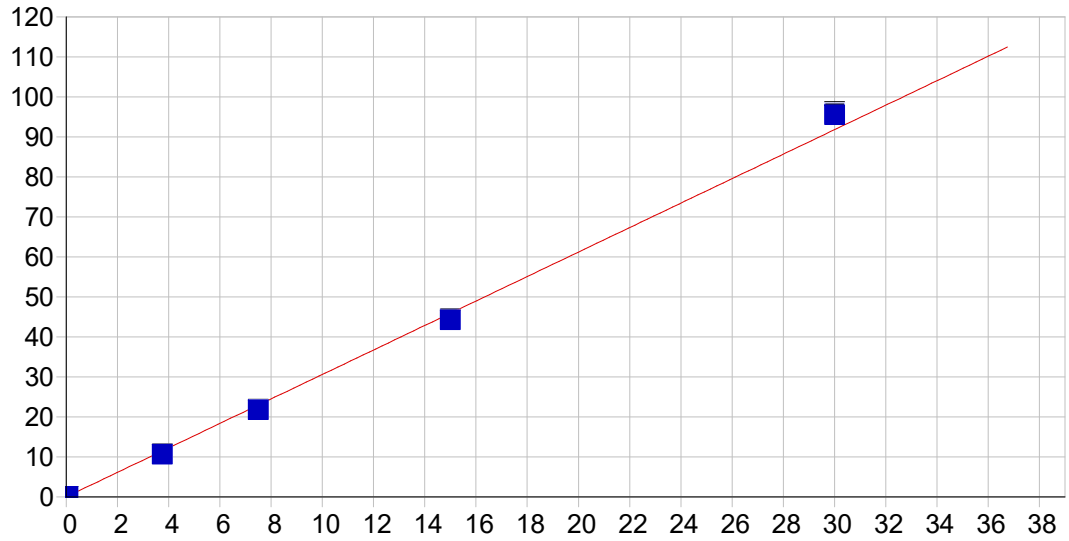
V 292.402 {115}

Date of Fit:	01/06/2025 14:35:23	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000693	Re-Slope:	1.000000
A1 (Gain):	0.165494	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999936	Status:	OK.
Std Error of Est:	0.000048		
Predicted MDL:	0.010513		
Predicted MQL:	0.035044		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00001	.000	.000	-.00069	.001	1
S1	.05000	.04454	-.005	-10.9	.00665	.002	1
S2	.62500	.61611	-.009	-1.42	.09713	.003	1
S3	1.2500	1.2565	.007	.521	.19896	.001	1
S4	2.5000	2.4787	-.021	-.850	.39294	.004	1
S5	5.0000	5.0293	.029	.586	.79847	.004	1

Reviewed By:Mohan
On:1/8/2025 7:28:17 AM
Inst Id :P5



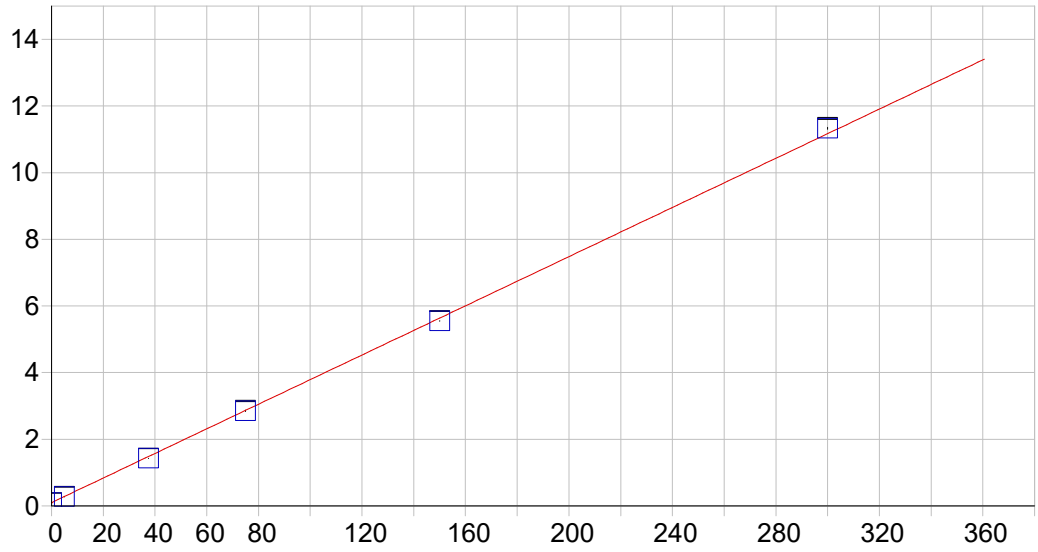
Zn 213.856 {158}

Date of Fit:	01/06/2025 14:35:23	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.019204	Re-Slope:	1.000000
A1 (Gain):	3.059473	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999015	Status:	OK.
Std Error of Est:	0.009714		
Predicted MDL:	0.000635		
Predicted MQL:	0.002118		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00001	.000	.000	.01924	.002	1
S1	.06000	.05420	-.006	-9.67	.18560	.002	1
S2	3.7500	3.4746	-.275	-7.34	10.706	.051	1
S3	7.5000	7.1002	-.400	-5.33	21.854	.068	1
S4	15.000	14.454	-.546	-3.64	44.466	.070	1
S5	30.000	31.227	1.23	4.09	96.006	.313	1

Reviewed By:Mohan
On:1/8/2025 7:28:17 AM
Inst Id :P5



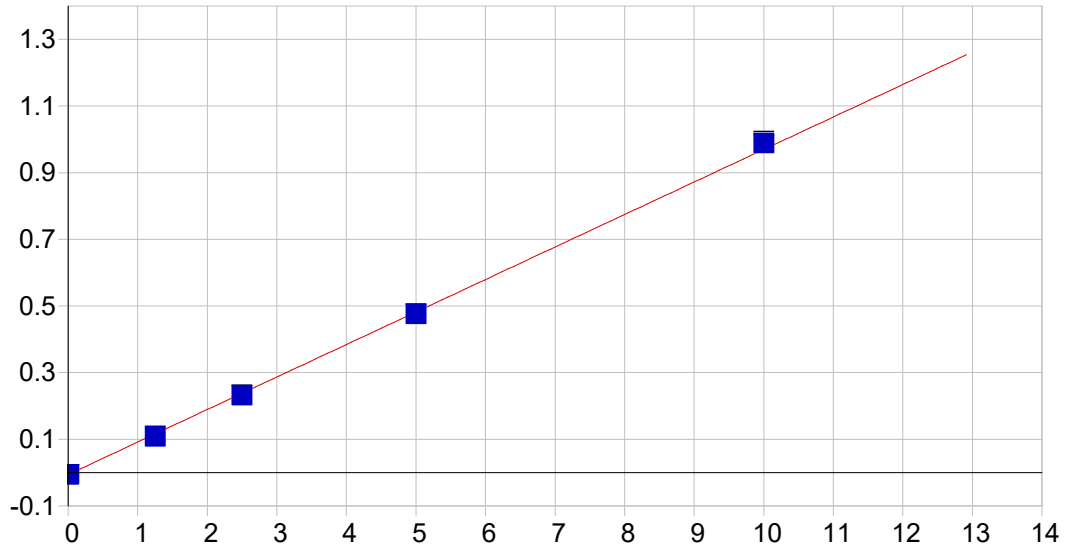
K 769.896 { 44}

Date of Fit: 01/06/2025 14:35:23 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset):	0.099250	Re-Slope:	1.000000
A1 (Gain):	0.036904	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999854	Status:	OK.
Std Error of Est:	0.001301		
Predicted MDL:	0.195869		
Predicted MQL:	0.652897		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00039	.000	.000	.09926	.012	1
S1	5.0000	4.8503	-.150	-2.99	.27825	.007	1
S2	37.500	35.971	-1.53	-4.08	1.4267	.002	1
S3	75.000	74.490	-.510	-.679	2.8482	.020	1
S4	150.00	147.82	-2.18	-1.46	5.5542	.010	1
S5	300.00	304.37	4.37	1.46	11.332	.029	1

Reviewed By:Mohan
On:1/8/2025 7:28:17 AM
Inst Id :P5



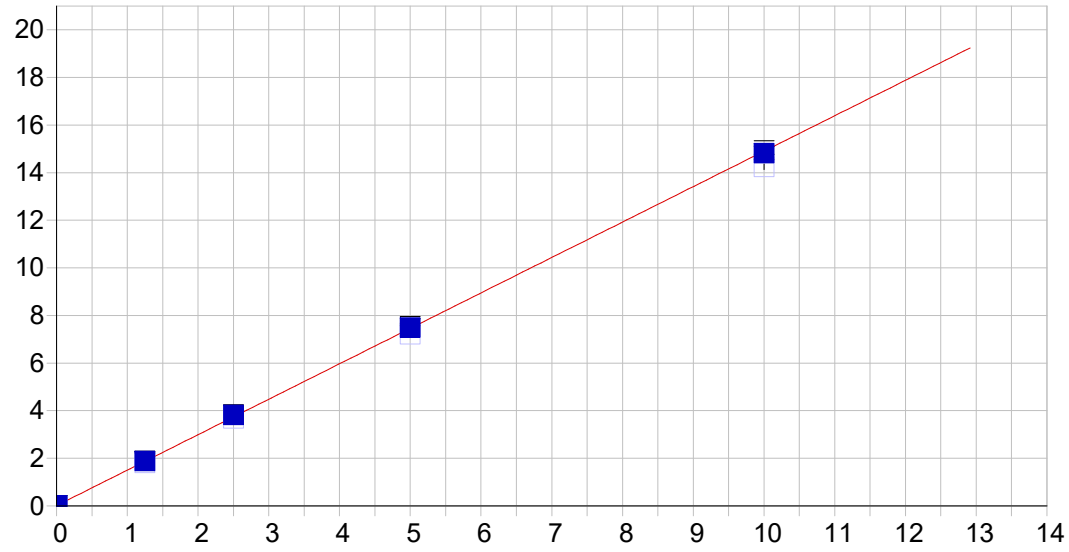
P 177.495 {490}

Date of Fit:	01/06/2025 14:35:23	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.005831	Re-Slope:	1.000000
A1 (Gain):	0.097542	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999689	Status:	OK.
Std Error of Est:	0.000041		
Predicted MDL:	0.003013		
Predicted MQL:	0.010045		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	-.00583	.000	1
S1	.01000	.00985	-.000	-1.54	-.00487	.000	1
S2	1.2500	1.1679	-.082	-6.57	.10791	.001	1
S3	2.5000	2.4395	-.060	-2.42	.23177	.000	1
S4	5.0000	4.9407	-.059	-1.19	.47538	.000	1
S5	10.000	10.202	.202	2.02	.98788	.006	1

Reviewed By:Mohan
On:1/8/2025 7:28:17 AM
Inst Id :P5

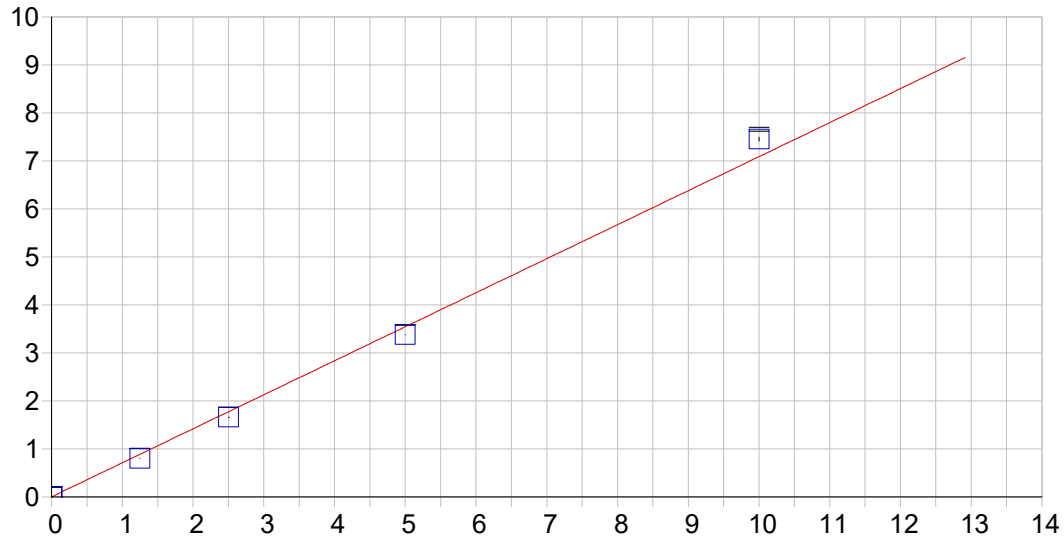


B 249.678 {135}

Date of Fit:	01/06/2025 14:35:23	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.014203	Re-Slope:	1.000000
A1 (Gain):	1.488924	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999527	Status:	OK.
Std Error of Est:	0.000739		
Predicted MDL:	0.002119		
Predicted MQL:	0.007062		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00001	.000	.000	.01422	.002	1
S1	.01000	-.00218	-.012	-122.	.01087	.002	1
S2	1.2500	1.2505	.000	.036	1.8053	.007	1
S3	2.5000	2.5521	.052	2.08	3.6725	.018	1
S4	5.0000	5.0231	.023	.462	7.2102	.052	1
S5	10.000	9.9370	-.063	-.630	14.243	.120	1



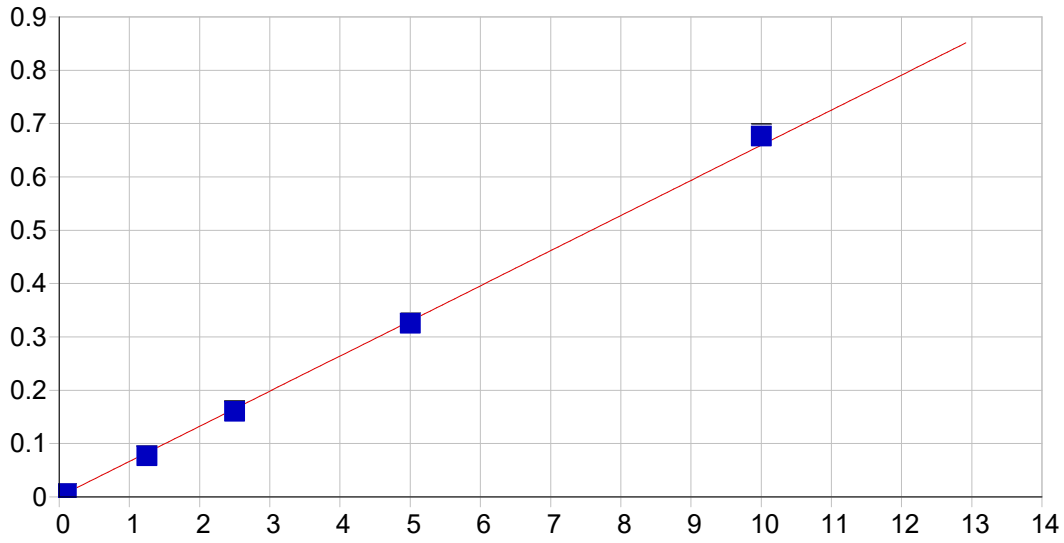
Mo 202.030 {467}

Date of Fit:	01/06/2025 14:35:23	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.001592	Re-Slope:	1.000000
A1 (Gain):	0.708702	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.998432	Status:	OK.
Std Error of Est:	0.000666		
Predicted MDL:	0.000758		
Predicted MQL:	0.002526		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00159	.001	1
S1	.01000	.00980	-.000	-2.04	.00853	.000	1
S2	1.2500	1.1307	-.119	-9.54	.80294	.003	1
S3	2.5000	2.3405	-.160	-6.38	1.6603	.002	1
S4	5.0000	4.7653	-.235	-4.69	3.3788	.003	1
S5	10.000	10.514	.514	5.14	7.4526	.040	1

Reviewed By:Mohan
On:1/8/2025 7:28:17 AM
Inst Id :P5



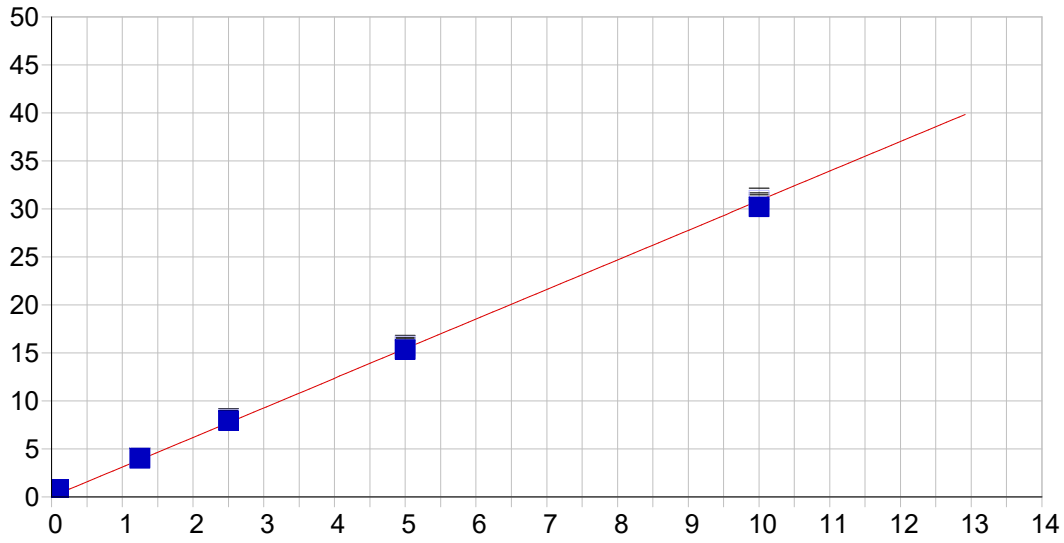
S 182.034 {485}

Date of Fit:	01/06/2025 14:35:23	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000595	Re-Slope:	1.000000
A1 (Gain):	0.065868	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999493	Status:	OK.
Std Error of Est:	0.000112		
Predicted MDL:	0.004248		
Predicted MQL:	0.014159		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00002	.000	.000	.00060	.000	1
S1	.10000	.08559	-.014	-14.4	.00623	.000	1
S2	1.2500	1.1547	-.095	-7.62	.07692	.000	1
S3	2.5000	2.4256	-.074	-2.97	.16090	.001	1
S4	5.0000	4.9268	-.073	-1.46	.32617	.001	1
S5	10.000	10.257	.257	2.57	.67834	.003	1

Reviewed By:Mohan
On:1/8/2025 7:28:17 AM
Inst Id :P5



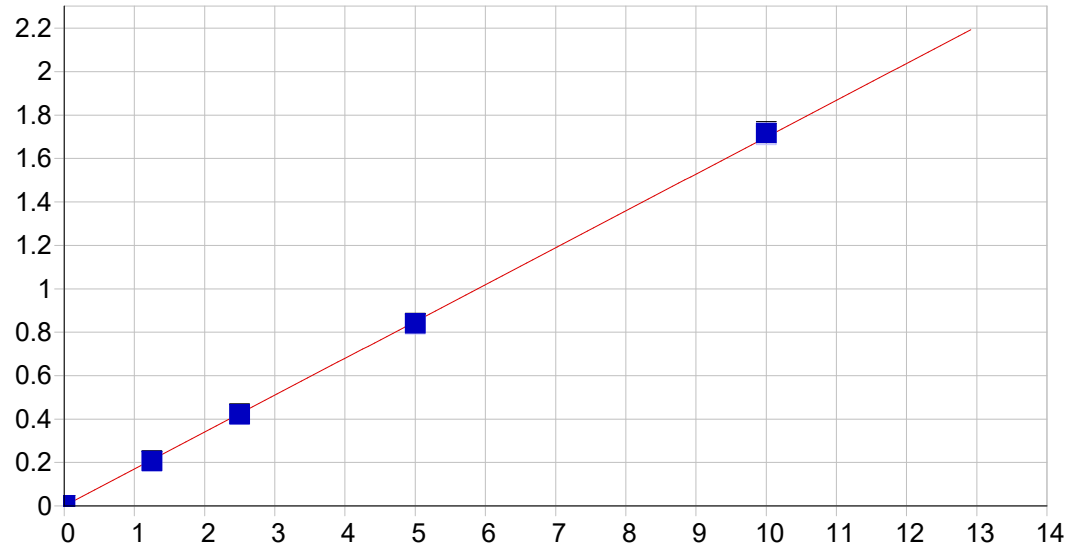
Si 251.611 {134}

Date of Fit:	01/06/2025 14:35:23	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.025837	Re-Slope:	1.000000
A1 (Gain):	3.082930	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.994258	Status:	OK.
Std Error of Est:	0.018031		
Predicted MDL:	0.001048		
Predicted MQL:	0.003493		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00015	-.000	.000	.02537	.004	1
S1	.10000	.24852	.149	149.	.79638	.002	1
S2	1.2500	1.2896	.040	3.17	4.0891	.018	1
S3	2.5000	2.5596	.060	2.38	8.0917	.062	1
S4	5.0000	4.9683	-.032	-.633	15.693	.105	1
S5	10.000	9.7852	-.215	-2.15	30.893	.249	1

Reviewed By:Mohan
On:1/8/2025 7:28:17 AM
Inst Id :P5



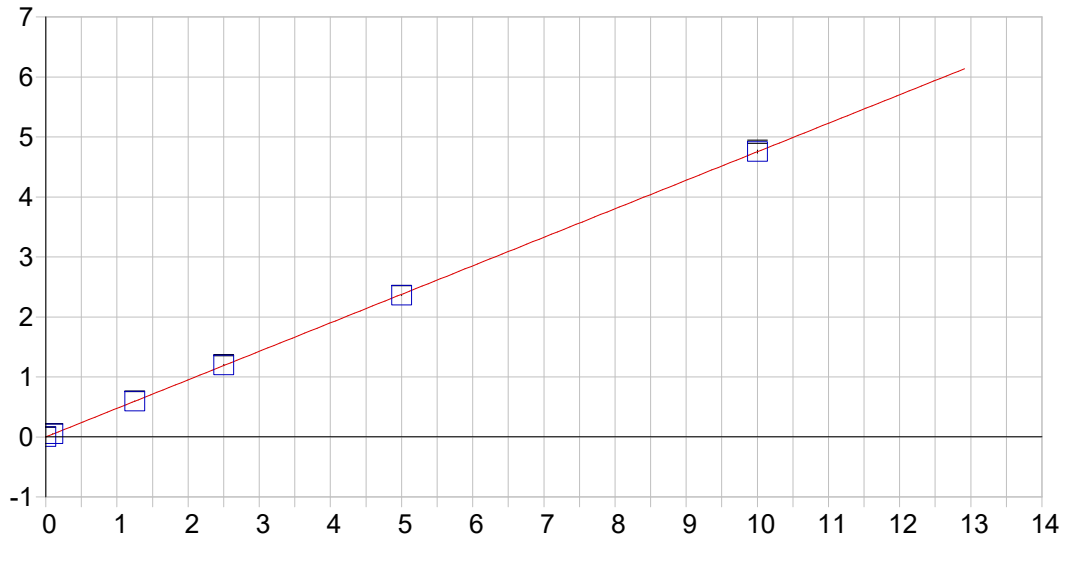
Sn 189.989 {478}

Date of Fit:	01/06/2025 14:35:23	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000644	Re-Slope:	1.000000
A1 (Gain):	0.169745	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999912	Status:	OK.
Std Error of Est:	0.000031		
Predicted MDL:	0.001484		
Predicted MQL:	0.004948		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00064	.000	1
S1	.00700	.00587	-.001	-16.1	.00159	.000	1
S2	1.2500	1.2109	-.039	-3.13	.20512	.001	1
S3	2.5000	2.4827	-.017	-.692	.41994	.002	1
S4	5.0000	4.9480	-.052	-1.04	.83629	.001	1
S5	10.000	10.109	.109	1.09	1.7082	.008	1

Reviewed By:Mohan
On:1/8/2025 7:28:17 AM
Inst Id :P5



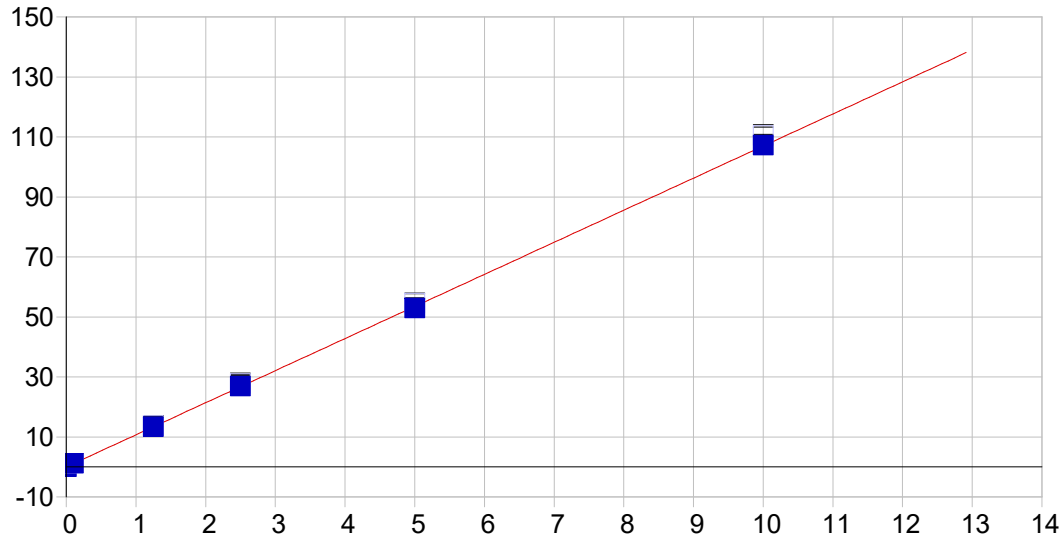
Ti 336.121 {100}

Date of Fit:	01/06/2025 14:35:23	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000372	Re-Slope:	1.000000
A1 (Gain):	0.475192	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999960	Status:	OK.
Std Error of Est:	0.000227		
Predicted MDL:	0.005130		
Predicted MQL:	0.017101		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00001	-.000	.000	.00037	.000	1
S1	.10000	.11051	.011	10.5	.05288	.003	1
S2	1.2500	1.2517	.002	.134	.59516	.004	1
S3	2.5000	2.5182	.018	.729	1.1970	.010	1
S4	5.0000	4.9625	-.037	-.750	2.3585	.004	1
S5	10.000	10.007	.007	.071	4.7556	.027	1

Reviewed By:Mohan
On:1/8/2025 7:28:17 AM
Inst Id :P5



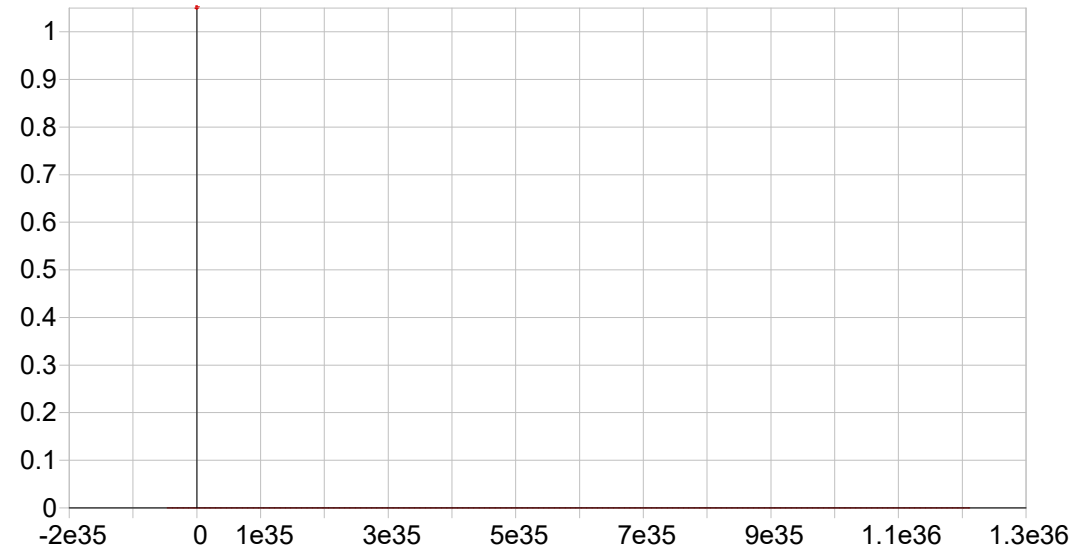
Sr 407.771 { 83}

Date of Fit:	01/06/2025 14:35:23	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.004495	Re-Slope:	1.000000
A1 (Gain):	10.695526	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999967	Status:	OK.
Std Error of Est:	0.004789		
Predicted MDL:	0.000312		
Predicted MQL:	0.001042		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00001	-.000	.000	-.00458	.003	1
S1	.10000	.10836	.008	8.36	1.1555	.003	1
S2	1.2500	1.2492	-.001	-.063	13.758	.043	1
S3	2.5000	2.5176	.018	.703	27.724	.209	1
S4	5.0000	4.9520	-.048	-.960	54.564	.116	1
S5	10.000	10.023	.023	.231	110.41	.379	1

Reviewed By:Mohan
On:1/8/2025 7:28:17 AM
Inst Id :P5

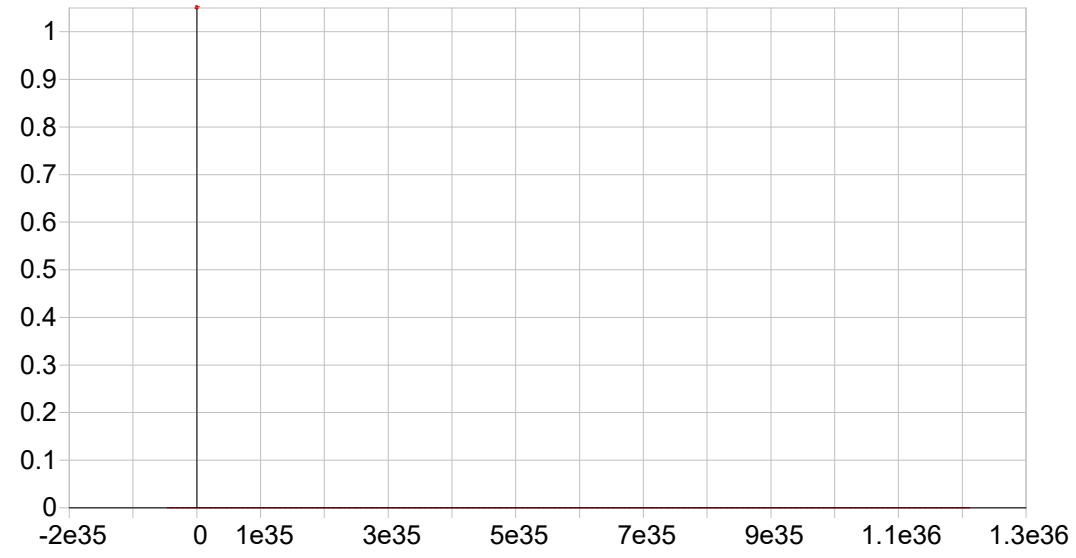


Y 224.306 {450}*

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

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

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



Y 360.073 { 94}*

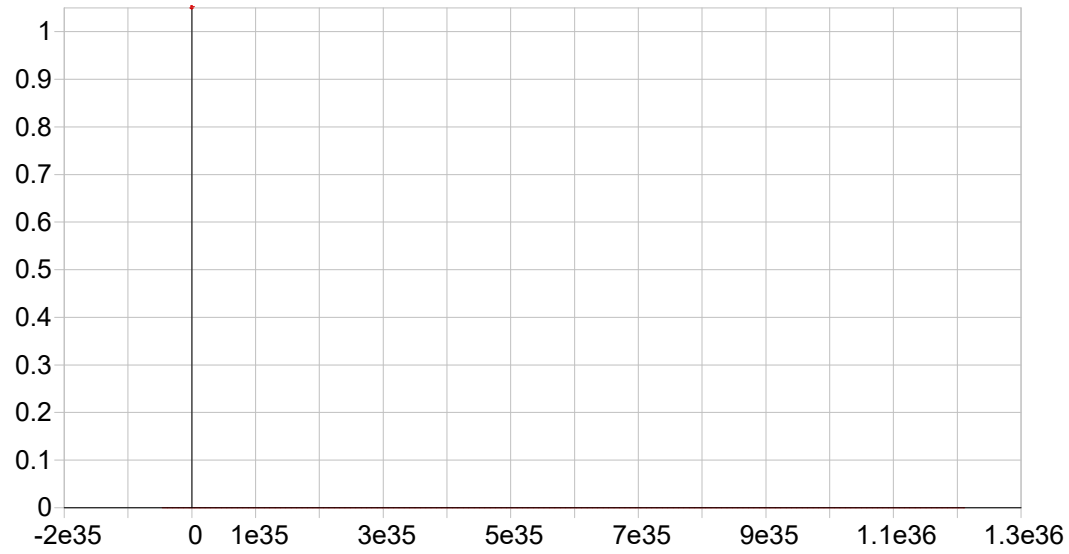
Date of Fit:	<not fit>	Type of Fit:	Linear	Weighting:	1/Conc

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

Reviewed By:Mohan
On:1/8/2025 7:28:17 AM
Inst Id :P5

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

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

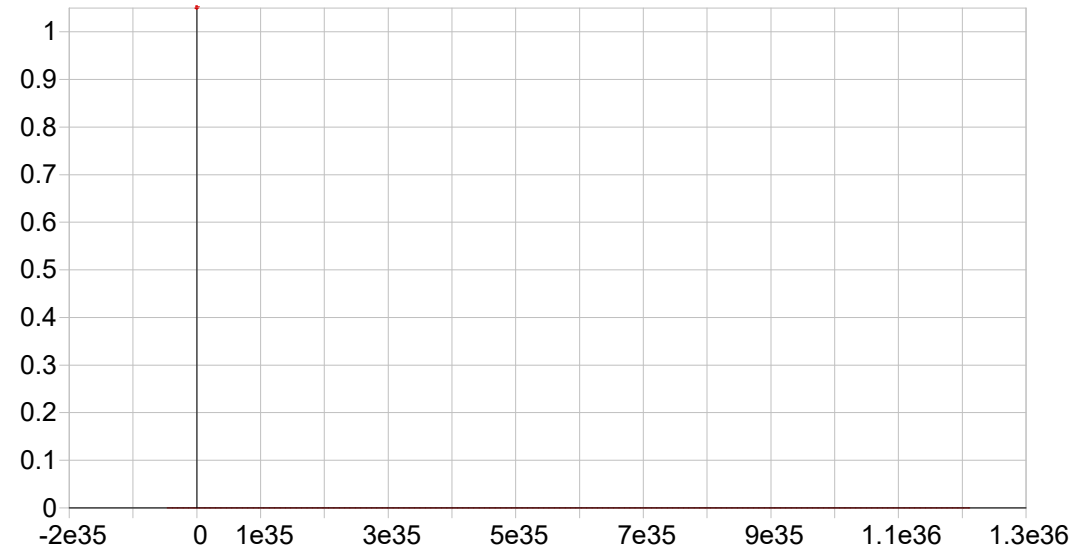


Y 371.030 { 91}*

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

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

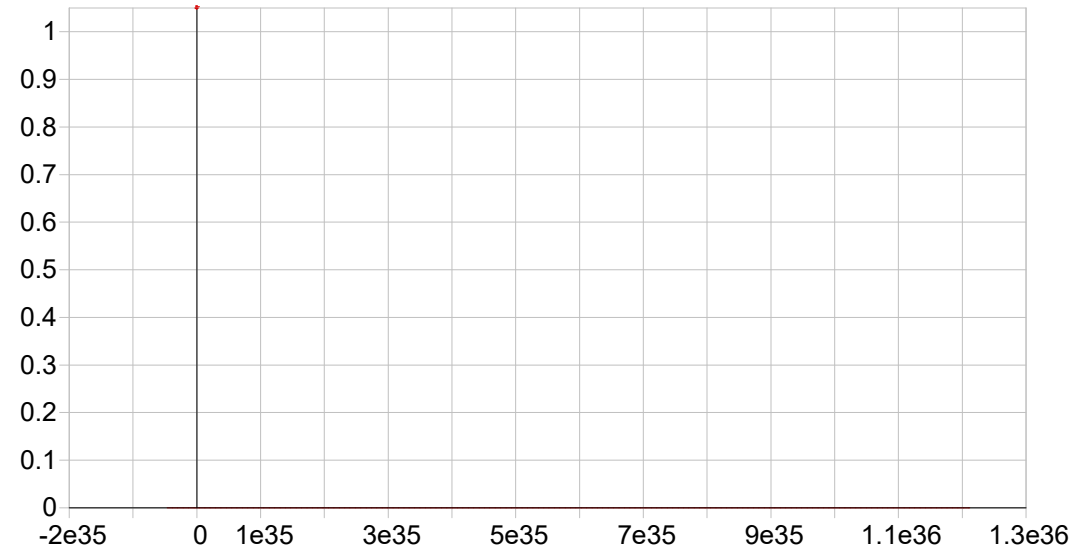
Reviewed By:Mohan
On:1/8/2025 7:28:17 AM
Inst Id :P5



Y 224.306 {150}*

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

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



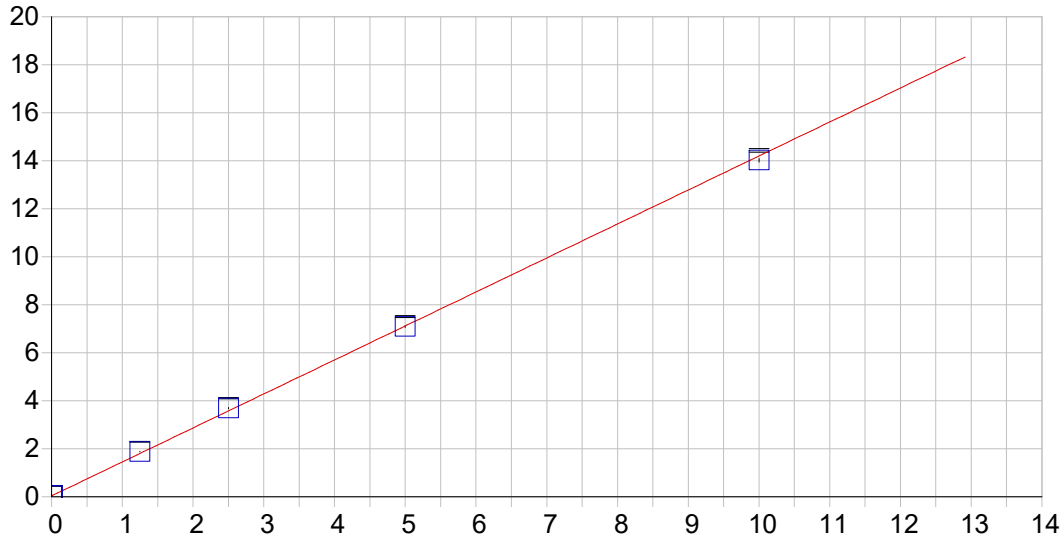
In 230.606 {446}*

Date of Fit:	<not fit>	Type of Fit:	Linear	Weighting:	1/Conc
A0 (Offset):	0.000000		Re-Slope:	1.000000	
A1 (Gain):	0.000000		Y-int:	0.000000	

Reviewed By:Mohan
On:1/8/2025 7:28:17 AM
Inst Id :P5

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



Li 670.784 { 50}

Date of Fit:	01/06/2025 14:35:23	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.033874	Re-Slope:	1.000000
A1 (Gain):	1.416473	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999816	Status:	OK.
Std Error of Est:	0.000559		
Predicted MDL:	0.004846		
Predicted MQL:	0.016153		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.03387	.007	1
S5	10.000	9.8748	-.125	-1.25	14.021	.070	1
S4	5.0000	4.9874	-.013	-.252	7.0984	.041	1
S3	2.5000	2.5813	.081	3.25	3.6902	.029	1
S2	1.2500	1.3044	.054	4.35	1.8815	.016	1
S1	.01500	.01718	.002	14.5	.05821	.003	1

Reviewed By:Mohan
On:1/8/2025 7:28:17 AM
Inst Id :P5

Sample Name: S0 Acquired: 01/06/2025 13:59:46 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v80) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: S0 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	1.8513	-.00062	-.00095	-.00010	-.00023	-.00480	.21817	.01288
Stddev	.6204	.00015	.00044	.00009	.00054	.00359	.00317	.00189
%RSD	33.512	23.785	45.989	91.103	235.80	74.820	1.4540	14.642
#1	1.5931	-.00057	-.00049	-.00002	-.00069	-.00762	.21761	.01313
#2	2.5591	-.00051	-.00136	-.00019	-.00038	-.00076	.21532	.01462
#3	1.4016	-.00079	-.00101	-.00008	.00037	-.00602	.22159	.01088

Elem	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598	Mn2576	Mg2790
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.00082	.01469	.00006	-.00153	.00460	.00142	.00350	-.00073
Stddev	.00081	.00274	.00012	.00041	.00058	.00138	.00049	.00133
%RSD	99.761	18.659	189.44	26.562	12.727	96.625	13.907	180.87
#1	.00064	.01219	.00020	-.00197	.00520	.00301	.00309	-.00110
#2	.00011	.01762	.00003	-.00146	.00403	.00069	.00403	-.00184
#3	.00171	.01426	-.00004	-.00116	.00456	.00057	.00337	.00074

Elem	Ni2316	Ag3280	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	-.00223	.00067	.26907	-.00069	.01924	.09926	-.00583	.01422
Stddev	.00046	.00072	.01750	.00083	.00223	.01206	.00006	.00160
%RSD	20.813	106.91	6.5033	119.93	11.609	12.149	.98517	11.237
#1	-.00183	-.00010	.27817	.00011	.02105	.09682	-.00577	.01358
#2	-.00213	.00132	.28014	-.00065	.01994	.11236	-.00589	.01604
#3	-.00274	.00080	.24890	-.00154	.01674	.08862	-.00584	.01305

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077	Li6707
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.00159	.00060	.02537	.00064	.00037	-.00458	.03387
Stddev	.00061	.00021	.00439	.00025	.00044	.00252	.00657
%RSD	38.450	35.734	17.293	39.145	120.10	54.971	19.390
#1	.00229	.00039	.02423	.00093	.00016	-.00185	.03088
#2	.00114	.00058	.03021	.00047	.00007	-.00509	.04140
#3	.00135	.00082	.02167	.00053	.00087	-.00681	.02933

Reviewed By:Mohan
On:1/8/2025 7:28:17 AM
Inst Id :P5

Sample Name: S0 Acquired: 01/06/2025 13:59:46 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v80) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: S0 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	1697.2	14682.	1320.7	1251.6	1855.8
Stddev	39.0	131.	6.6	13.5	44.3
%RSD	2.2995	.89229	.49897	1.0779	2.3845
#1	1703.7	14579.	1317.1	1243.4	1861.7
#2	1732.6	14637.	1316.6	1244.1	1896.8
#3	1655.3	14830.	1328.3	1267.1	1808.9

Reviewed By:Mohan
On:1/8/2025 7:28:17 AM
Inst Id :P5

Sample Name: S1 Acquired: 01/06/2025 14:03:50 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v80) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: S01 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	3.7343	.00216	.00179	.00211	.01025	.02367	1.0084	.10778
Stddev	.5351	.00054	.00084	.00039	.00131	.00383	.0088	.00377
%RSD	14.330	24.828	46.952	18.234	12.769	16.176	.87000	3.4957
#1	4.2611	.00218	.00093	.00167	.00906	.02397	1.0184	.11196
#2	3.7506	.00162	.00183	.00230	.01165	.02734	1.0051	.10465
#3	3.1912	.00269	.00260	.00236	.01005	.01970	1.0018	.10674

Elem	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598	Mn2576	Mg2790
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.02664	.33650	.00452	.06689	.00833	.00468	.01333	.07137
Stddev	.00039	.00533	.00033	.00021	.00211	.00090	.00163	.00034
%RSD	1.4684	1.5830	7.3882	.32014	25.336	19.258	12.263	.47840
#1	.02648	.33046	.00420	.06681	.00621	.00377	.01169	.07124
#2	.02635	.33856	.00449	.06672	.00836	.00471	.01334	.07112
#3	.02709	.34050	.00486	.06713	.01043	.00557	.01496	.07176

Elem	Ni2316	Ag3280	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.03010	.00428	4.2380	.00665	.18560	.27825	-.00487	.01087
Stddev	.00052	.00023	.0225	.00161	.00214	.00652	.00016	.00160
%RSD	1.7165	5.4816	.53106	24.136	1.1549	2.3438	3.3549	14.701
#1	.02986	.00446	4.2355	.00481	.18426	.28247	-.00470	.00959
#2	.02974	.00401	4.2169	.00743	.18807	.28153	-.00488	.01266
#3	.03069	.00437	4.2617	.00773	.18446	.27073	-.00502	.01037

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077	Li6707
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.00853	.00623	.79638	.00159	.05288	1.1555	.05821
Stddev	.00013	.00025	.00230	.00019	.00291	.0028	.00277
%RSD	1.5068	3.9706	.28879	12.123	5.4966	.24569	4.7607
#1	.00865	.00595	.79490	.00142	.05018	1.1549	.06062
#2	.00855	.00641	.79521	.00155	.05251	1.1530	.05518
#3	.00840	.00634	.79903	.00180	.05596	1.1586	.05881

Reviewed By:Mohan
On:1/8/2025 7:28:17 AM
Inst Id :P5

Sample Name: S1 Acquired: 01/06/2025 14:03:50 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v80) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: S01 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	1571.6	13899.	1269.7	1169.1	1715.6
Stddev	1.5	35.	2.7	4.1	3.9
%RSD	.09278	.25041	.21199	.35320	.22712
#1	1570.0	13859.	1268.6	1166.2	1715.5
#2	1572.0	13920.	1272.7	1167.1	1711.8
#3	1572.8	13918.	1267.7	1173.8	1719.6

Reviewed By:Mohan
On:1/8/2025 7:28:17 AM
Inst Id :P5

Sample Name: S2 Acquired: 01/06/2025 14:07:51 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v80) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: S02 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	292.06	.13949	2.1216	.09034	.22126	4.3854	9.7797	2.3507
Stddev	.75	.00112	.0035	.00019	.00085	.0164	.0120	.0128
%RSD	.25689	.80437	.16315	.20847	.38212	.37469	.12290	.54379
#1	291.59	.13912	2.1218	.09055	.22076	4.3700	9.7920	2.3524
#2	292.92	.13860	2.1181	.09020	.22079	4.3835	9.7680	2.3372
#3	291.66	.14075	2.1250	.09026	.22224	4.4027	9.7791	2.3626

Elem	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598	Mn2576	Mg2790
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3.3679	3.9907	1.7692	.85188	.63070	1.0350	1.9320	.85321
Stddev	.0100	.0195	.0066	.00279	.00332	.0016	.0116	.00377
%RSD	.29624	.48821	.37228	.32704	.52707	.15750	.59772	.44186
#1	3.3693	3.9745	1.7723	.85215	.63366	1.0333	1.9210	.85064
#2	3.3573	3.9853	1.7617	.84897	.62710	1.0353	1.9309	.85145
#3	3.3771	4.0123	1.7737	.85452	.63134	1.0365	1.9440	.85754

Elem	Ni2316	Ag3280	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.50043	.12394	30.999	.09713	10.706	1.4267	.10791	1.8053
Stddev	.00087	.00047	.191	.00293	.051	.0017	.00100	.0075
%RSD	.17301	.38131	.61488	3.0147	.47516	.12113	.92255	.41407
#1	.50122	.12444	30.835	.09948	10.670	1.4254	.10771	1.8099
#2	.49950	.12388	30.955	.09385	10.764	1.4261	.10703	1.7966
#3	.50057	.12350	31.208	.09804	10.684	1.4287	.10899	1.8092

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077	Li6707
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.80294	.07692	4.0891	.20512	.59516	13.758	1.8815
Stddev	.00256	.00007	.0176	.00114	.00405	.043	.0160
%RSD	.31839	.09742	.43076	.55344	.68038	.31260	.85059
#1	.80559	.07693	4.0725	.20444	.59550	13.737	1.8638
#2	.80049	.07684	4.0872	.20449	.59095	13.729	1.8855
#3	.80274	.07699	4.1076	.20643	.59902	13.807	1.8950

Reviewed By:Mohan
On:1/8/2025 7:28:17 AM
Inst Id :P5

Sample Name: S2 Acquired: 01/06/2025 14:07:51 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v80) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: S02 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	1506.1	13698.	1260.9	1134.0	1559.0
Stddev	7.7	44.	6.0	2.7	7.8
%RSD	.51301	.31884	.47395	.24018	.49763
#1	1497.2	13679.	1263.8	1136.2	1551.2
#2	1510.4	13748.	1264.9	1131.0	1566.7
#3	1510.7	13666.	1254.0	1134.9	1559.1

Reviewed By:Mohan
On:1/8/2025 7:28:17 AM
Inst Id :P5

Sample Name: S3 Acquired: 01/06/2025 14:11:35 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v80) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: S03 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	584.03	.28383	4.3378	.18745	.45538	8.7986	19.443	4.6707
Stddev	1.92	.00042	.0081	.00085	.00237	.0673	.155	.0335
%RSD	.32806	.14626	.18766	.45310	.52003	.76507	.79726	.71760
#1	585.96	.28384	4.3417	.18843	.45738	8.8346	19.534	4.6924
#2	582.13	.28341	4.3284	.18693	.45277	8.7210	19.264	4.6321
#3	584.00	.28424	4.3432	.18700	.45599	8.8403	19.532	4.6875

Elem	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598	Mn2576	Mg2790
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6.8955	7.9981	3.5455	1.7301	1.2661	2.0785	3.8739	1.7066
Stddev	.0175	.0504	.0081	.0043	.0137	.0217	.0325	.0125
%RSD	.25313	.63032	.22995	.24763	1.0813	1.0424	.83878	.73159
#1	6.9010	8.0201	3.5413	1.7313	1.2774	2.0854	3.8880	1.7146
#2	6.8760	7.9404	3.5549	1.7254	1.2508	2.0543	3.8367	1.6922
#3	6.9096	8.0337	3.5403	1.7337	1.2700	2.0960	3.8969	1.7129

Elem	Ni2316	Ag3280	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1.0281	.25024	63.977	.19896	21.854	2.8482	.23177	3.6725
Stddev	.0024	.00016	.307	.00082	.068	.0200	.00025	.0180
%RSD	.23245	.06326	.48033	.41019	.31263	.70082	.10886	.48915
#1	1.0277	.25029	64.161	.19903	21.777	2.8510	.23197	3.6892
#2	1.0259	.25037	63.622	.19812	21.879	2.8270	.23149	3.6535
#3	1.0306	.25006	64.147	.19974	21.907	2.8667	.23185	3.6748

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077	Li6707
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1.6603	.16090	8.0917	.41994	1.1970	27.724	3.6902
Stddev	.0024	.00089	.0618	.00216	.0097	.209	.0289
%RSD	.14234	.55133	.76374	.51485	.81096	.75368	.78301
#1	1.6623	.16094	8.1429	.42171	1.1993	27.832	3.6964
#2	1.6577	.15999	8.0231	.41753	1.1864	27.484	3.6587
#3	1.6609	.16176	8.1092	.42058	1.2054	27.858	3.7154

Reviewed By:Mohan
On:1/8/2025 7:28:17 AM
Inst Id :P5

Sample Name: S3 Acquired: 01/06/2025 14:11:35 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v80) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: S03 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	1449.2	13345.	1245.6	1084.7	1493.4
Stddev	2.0	14.	9.6	2.4	3.2
%RSD	.13803	.10272	.77364	.22040	.21097
#1	1450.9	13338.	1237.8	1085.0	1497.0
#2	1447.0	13337.	1256.3	1087.0	1491.6
#3	1449.7	13361.	1242.6	1082.2	1491.6

Reviewed By:Mohan
On:1/8/2025 7:28:17 AM
Inst Id :P5

Sample Name: S4 Acquired: 01/06/2025 14:15:12 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v80) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: S04 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	1122.5	.55366	8.6569	.38055	.93015	17.299	38.196	9.0187
Stddev	4.7	.00094	.0047	.00169	.00172	.030	.148	.0529
%RSD	.42004	.17067	.05434	.44331	.18464	.17255	.38735	.58646
#1	1127.8	.55288	8.6527	.38230	.93124	17.264	38.111	8.9587
#2	1118.8	.55471	8.6560	.38042	.93105	17.314	38.110	9.0586
#3	1121.0	.55338	8.6620	.37893	.92817	17.317	38.367	9.0387

Elem	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598	Mn2576	Mg2790
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	13.620	15.527	6.8286	3.3838	2.4748	4.0573	7.5365	3.3231
Stddev	.008	.053	.0037	.0040	.0097	.0142	.0308	.0111
%RSD	.05773	.34108	.05379	.11713	.39288	.34911	.40821	.33307
#1	13.612	15.488	6.8246	3.3815	2.4698	4.0560	7.5172	3.3151
#2	13.622	15.505	6.8318	3.3815	2.4686	4.0438	7.5203	3.3185
#3	13.627	15.587	6.8294	3.3884	2.4860	4.0721	7.5720	3.3357

Elem	Ni2316	Ag3280	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2.0286	.48904	128.55	.39294	44.466	5.5542	.47538	7.2102
Stddev	.0012	.00096	.59	.00365	.070	.0102	.00040	.0515
%RSD	.06101	.19606	.46050	.92892	.15724	.18291	.08434	.71486
#1	2.0291	.48820	127.88	.38921	44.435	5.5482	.47584	7.1512
#2	2.0272	.49009	128.99	.39312	44.417	5.5485	.47515	7.2465
#3	2.0294	.48885	128.79	.39650	44.546	5.5659	.47515	7.2328

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077	Li6707
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3.3788	.32617	15.693	.83629	2.3585	54.564	7.0984
Stddev	.0027	.00067	.105	.00086	.0039	.116	.0413
%RSD	.07834	.20444	.67164	.10323	.16412	.21225	.58128
#1	3.3784	.32614	15.575	.83580	2.3551	54.499	7.0638
#2	3.3816	.32552	15.779	.83579	2.3578	54.495	7.0873
#3	3.3764	.32685	15.724	.83729	2.3627	54.698	7.1441

Reviewed By:Mohan
On:1/8/2025 7:28:17 AM
Inst Id :P5

Sample Name: S4 Acquired: 01/06/2025 14:15:12 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v80) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: S04 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	1352.0	13150.	1227.2	1013.7	1421.9
Stddev	4.1	63.	2.6	4.3	5.3
%RSD	.30459	.48099	.21092	.42183	.37047
#1	1355.6	13078.	1228.8	1008.8	1427.9
#2	1347.5	13180.	1224.2	1016.3	1418.1
#3	1352.8	13193.	1228.6	1016.0	1419.6

Reviewed By:Mohan
On:1/8/2025 7:28:17 AM
Inst Id :P5

Sample Name: S5 Acquired: 01/06/2025 14:18:49 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v80) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: S05 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	2160.3	1.1029	17.650	.82594	2.0613	35.348	77.323	17.873
Stddev	3.1	.0048	.087	.00453	.0116	.161	.393	.131
%RSD	.14550	.43367	.49505	.54791	.56069	.45549	.50853	.73055
#1	2163.9	1.0999	17.585	.82237	2.0538	35.228	76.878	17.939
#2	2159.0	1.1084	17.749	.83103	2.0746	35.286	77.624	17.958
#3	2158.0	1.1003	17.615	.82440	2.0555	35.531	77.468	17.723

Elem	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598	Mn2576	Mg2790
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	27.529	30.955	13.566	6.8349	5.0137	8.1049	15.050	6.6386
Stddev	.150	.105	.041	.0379	.0160	.0296	.047	.0269
%RSD	.54407	.33893	.29876	.55391	.31904	.36529	.31271	.40569
#1	27.410	30.835	13.522	6.8035	5.0009	8.0725	15.002	6.6313
#2	27.698	30.998	13.575	6.8770	5.0087	8.1116	15.050	6.6162
#3	27.480	31.031	13.601	6.8243	5.0316	8.1306	15.097	6.6685

Elem	Ni2316	Ag3280	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4.1105	.98957	258.46	.79847	96.006	11.332	.98788	14.243
Stddev	.0238	.00252	2.32	.00390	.313	.029	.00577	.120
%RSD	.57821	.25496	.89591	.48804	.32565	.25886	.58366	.84249
#1	4.0943	.98670	255.87	.79873	95.790	11.298	.98405	14.327
#2	4.1378	.99058	260.33	.79444	96.364	11.347	.99451	14.298
#3	4.0994	.99143	259.19	.80222	95.863	11.350	.98508	14.106

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077	Li6707
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	7.4526	.67834	30.893	1.7082	4.7556	110.41	14.021
Stddev	.0399	.00269	.249	.0079	.0270	.38	.070
%RSD	.53611	.39665	.80715	.46152	.56857	.34357	.50003
#1	7.4161	.67719	31.068	1.7017	4.7284	109.99	13.941
#2	7.4953	.68142	31.003	1.7170	4.7561	110.50	14.054
#3	7.4466	.67642	30.607	1.7058	4.7825	110.73	14.069

Reviewed By:Mohan
On:1/8/2025 7:28:17 AM
Inst Id :P5

Sample Name: S5 Acquired: 01/06/2025 14:18:49 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v80) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: S05 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	1178.6	12674.	1197.8	885.87	1326.2
Stddev	8.4	88.	3.0	5.83	9.2
%RSD	.71562	.69218	.24724	.65757	.69656
#1	1185.1	12748.	1196.6	892.55	1333.5
#2	1169.1	12696.	1195.7	883.27	1315.8
#3	1181.7	12577.	1201.2	881.80	1329.3

Reviewed By:Mohan
On:1/8/2025 7:28:17 AM
Inst Id :P5

Sample Name: S6 Acquired: 01/06/2025 14:22:34 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v80) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: S06 Custom ID2: Custom ID3:
Comment:

Elem	Al3961	Ca3736	Fe2598	Mg2790	Na8183
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	91.792	49.042	20.962	10.410	696.54
Stddev	.238	.235	.068	.051	7.27
%RSD	.25976	.47874	.32485	.49039	1.0436
#1	91.517	48.914	20.893	10.367	694.93
#2	91.922	49.313	21.029	10.466	704.47
#3	91.937	48.899	20.965	10.398	690.21

Int. Std.	Y_3710
Units	Cts/S
Avg	1162.5
Stddev	8.5
%RSD	.72845
#1	1163.0
#2	1153.8
#3	1170.7

Reviewed By:Mohan
On:1/8/2025 7:28:17 AM
Inst Id :P5

Sample Name: ICV053 Acquired: 01/06/2025 14:34:45 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v80) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICV053 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.088637	1.020998	.9991992	.9490112	.9834991	2.541287
Stddev	.003608	.002159	.0022544	.0035655	.0035539	.018318
%RSD	.3313957	.2114448	.2256239	.3757021	.3613570	.7208137
#1	1.086333	1.022623	.9977184	.9482146	.9821704	2.521022
#2	1.092794	1.018549	.9980854	.9459114	.9808009	2.546172
#3	1.086783	1.021823	1.001794	.9529076	.9875259	2.556668

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5314570	.5387125	.5050500	10.46226	.5665416	.5142750
Stddev	.0004258	.0020862	.0007882	.05796	.0020467	.0013005
%RSD	.0801184	.3872522	.1560724	.5540140	.3612657	.2528740
#1	.5310996	.5396253	.5041706	10.43796	.5643221	.5145917
#2	.5313432	.5401867	.5056931	10.52841	.5669483	.5153879
#3	.5319281	.5363255	.5052862	10.42040	.5683544	.5128454

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5002878	10.55748	.5429373	6.523207	.5209408	.2592031
Stddev	.0064651	.01489	.0022894	.056718	.0007129	.0015902
%RSD	1.292273	.1410242	.4216699	.8694820	.1368467	.6135064
#1	.4978857	10.56658	.5439839	6.500019	.5206065	.2599899
#2	.5076100	10.56556	.5445164	6.587846	.5217594	.2573728
#3	.4953675	10.54030	.5403117	6.481758	.5204565	.2602465

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	10.92083	.5160057	.9412478	9.465476	F .0011627	F -.021825
Stddev	.01590	.0164383	.0029340	.243326	.0010872	.002034
%RSD	.1455957	3.185688	.3117092	2.570668	93.50428	9.319997
#1	10.92584	.5045364	.9382823	9.484183	.0000844	-.024134
#2	10.93362	.5086422	.9413118	9.213336	.0022586	-.020301
#3	10.90303	.5348384	.9441492	9.698908	.0011451	-.021038

Reviewed By:Mohan
On:1/8/2025 7:28:17 AM
Inst Id :P5

Sample Name: ICV053 Acquired: 01/06/2025 14:34:45 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v80) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICV053 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F .0011336	F .0000986	F -.000202	F .0013485	F .0083485	F -.009397
Stddev	.0002592	.0027648	.001028	.0003950	.0039538	.000522
%RSD	22.86426	2804.288	509.0949	29.29001	47.35862	5.552072
#1	.0013783	.0024603	-.001084	.0013266	.0062004	-.009771
#2	.0008620	.0007781	.000928	.0009650	.0059339	-.009619
#3	.0011606	-.002943	-.000450	.0017540	.0129114	-.008801

Elem	Li6707
Units	ppm
Avg	F .0219952
Stddev	.0022404
%RSD	10.18570
#1	.0196146
#2	.0223088
#3	.0240623

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1574.560	14038.83	1286.795	1183.689	1686.757
Stddev	4.486	16.56	4.022	3.176	.491
%RSD	.2848838	.1179700	.3125563	.2683073	.0291290
#1	1570.296	14034.18	1285.463	1186.229	1686.468
#2	1579.238	14057.22	1283.609	1184.710	1687.325
#3	1574.145	14025.09	1291.315	1180.128	1686.480

Reviewed By:Mohan
On:1/8/2025 7:28:17 AM
Inst Id :P5

Sample Name: ICB053 Acquired: 01/06/2025 14:38:35 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v80) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICB053 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.003268	.0056583	-.001119	-.006345	.0026751	.0015637	.0010508
Stddev	.002598	.0029354	.003043	.001108	.0020973	.0500520	.0012938
%RSD	79.48084	51.87795	272.0184	17.46295	78.39931	3200.836	123.1265
#1	-.001926	.0083846	-.004149	-.005559	.0047522	-.011519	.0006858
#2	-.001616	.0025510	-.001146	-.005863	.0005582	.056858	-.000021
#3	-.006263	.0060394	.001938	-.007612	.0027150	-.040648	.002488

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000155	-.000044	-.073638	-.000301	.0002758	-.017038	-.037484
Stddev	.000178	.000064	.033693	.001190	.0003420	.009542	.023060
%RSD	115.1614	145.5888	45.75452	395.9920	124.0302	56.00661	61.52094
#1	-.000358	.000027	-.059856	-.001074	-.000111	-.007055	-.064031
#2	-.000078	-.000063	-.112037	-.000898	.000399	-.017991	-.022422
#3	-.000028	-.000097	-.049021	.001070	.000539	-.026068	-.025998

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0014111	-.114580	-.000022	-.000225	-.174102	.0048002	-.004222
Stddev	.0013257	.097021	.001531	.000697	.022186	.0029229	.000759
%RSD	93.94593	84.67481	6895.784	310.1157	12.74297	60.89154	17.98092
#1	.0022517	-.002772	.001745	.000393	-.148489	.0044120	-.004410
#2	.0020987	-.164380	-.000864	-.000087	-.187323	.0078978	-.004870
#3	-.000117	-.176589	-.000947	-.000980	-.186495	.0020908	-.003387

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0315407	.0002288	-.000665	-.000057	-.001300	.0001640	-.001329
Stddev	.1996912	.0010746	.000453	.000710	.001611	.0005661	.000639
%RSD	633.1219	469.6244	68.08170	1235.674	123.9022	345.2148	48.09938
#1	-.190042	-.000880	-.000995	-.000630	-.000577	-.000353	-.001312
#2	.197582	.001265	-.000850	-.000280	-.003146	.000076	-.000699
#3	.087082	.000301	-.000149	.000738	-.000177	.000769	-.001977

Reviewed By:Mohan
On:1/8/2025 7:28:17 AM
Inst Id :P5

Sample Name: ICB053 Acquired: 01/06/2025 14:38:35 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v80) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICB053 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.0061163	.0000757	.0077038
Stddev	.0064127	.0003881	.0059424
%RSD	104.8465	512.4526	77.13626
#1	.0046481	-.000169	.0097073
#2	.0131358	.000523	.0010186
#3	.0005650	-.000127	.0123855

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1600.588	14164.34	1289.970	1197.004	1750.123
Stddev	3.353	123.87	10.875	8.296	2.983
%RSD	.2094625	.8745214	.8430640	.6931037	.1704528
#1	1596.717	14096.76	1278.561	1196.471	1746.840
#2	1602.460	14088.96	1300.218	1188.986	1752.668
#3	1602.586	14307.31	1291.130	1205.553	1750.862

Reviewed By:Mohan
On:1/8/2025 7:28:17 AM
Inst Id :P5

Sample Name: ICSA053 Acquired: 01/06/2025 14:48:52 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v80) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICSA053 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0093662	.0090150	-.007112	-.000386	.0212831	245.9293
Stddev	.0064863	.0026897	.002752	.003805	.0025063	1.6048
%RSD	69.25202	29.83542	38.69180	985.3520	11.77583	.6525475
#1	.0115740	.0120990	-.006064	-.003339	.0197637	246.3496
#2	.0020643	.0071556	-.005038	.003907	.0241758	247.2821
#3	.0144605	.0077903	-.010234	-.001727	.0199097	244.1561

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0057338	.0014948	.0006560	252.9951	.0523670	.0381618
Stddev	.0037192	.0001122	.0000896	1.6310	.0006900	.0000598
%RSD	64.86502	7.503074	13.66307	.6446790	1.317526	.1566647
#1	.0087081	.0016225	.0005580	252.2651	.0531590	.0382070
#2	.0015638	.0014119	.0006760	254.8636	.0518966	.0381844
#3	.0069295	.0014501	.0007339	251.8565	.0520453	.0380940

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.010585	101.8025	-.000662	265.8361	.0115091	-.007896
Stddev	.021929	.8435	.000981	1.6414	.0021253	.001074
%RSD	207.1708	.8285752	148.1365	.6174534	18.46627	13.59897
#1	-.014893	102.0284	-.000154	265.5095	.0123199	-.009131
#2	-.030041	102.5101	-.001793	267.6163	.0090977	-.007374
#3	.013178	100.8691	-.000039	264.3826	.0131096	-.007184

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0269721	-.005175	-.038230	-.193554	-.001943	F -.228489
Stddev	.0091296	.009640	.000509	.087909	.005623	.003370
%RSD	33.84821	186.2900	1.332133	45.41844	289.4271	1.474768
#1	.0167312	-.001024	-.038731	-.277679	.002246	-.232370
#2	.0299266	.001695	-.038246	-.102295	-.008334	-.226315
#3	.0342586	-.016195	-.037713	-.200687	.000259	-.226781

Reviewed By:Mohan
On:1/8/2025 7:28:17 AM
Inst Id :P5

Sample Name: ICSA053 Acquired: 01/06/2025 14:48:52 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v80) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICSA053 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0081708	.0125180	-.002511	F .0131277	.0091522	.0062033
Stddev	.0001401	.0024824	.000873	.0014491	.0008609	.0006282
%RSD	1.714534	19.83065	34.77518	11.03817	9.406634	10.12697
#1	.0080179	.0133473	-.003500	.0115145	.0083020	.0066732
#2	.0082016	.0144795	-.002185	.0135497	.0100235	.0054898
#3	.0082929	.0097271	-.001847	.0143189	.0091310	.0064469

Elem	Li6707
Units	ppm
Avg	.0082443
Stddev	.0075549
%RSD	91.63867
#1	.0004898
#2	.0155824
#3	.0086605

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1458.392	12996.92	1220.775	1100.570	1476.291
Stddev	7.521	23.31	8.398	7.394	5.249
%RSD	.5156917	.1793247	.6879049	.6717927	.3555235
#1	1452.450	13017.68	1216.540	1109.088	1471.012
#2	1466.848	12971.71	1215.339	1095.812	1481.509
#3	1455.879	13001.37	1230.448	1096.811	1476.352

Reviewed By:Mohan
On:1/8/2025 7:28:17 AM
Inst Id :P5

Sample Name: ICSAB053 Acquired: 01/06/2025 15:03:06 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v80) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICSAB053 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1068915	.1027560	.0421242	.0453055	.5411971	235.1983
Stddev	.0009628	.0013284	.0029703	.0062187	.0052687	.2625
%RSD	.9007124	1.292722	7.051358	13.72609	.9735273	.1116005
#1	.1077794	.1042808	.0409926	.0524277	.5456863	234.9685
#2	.1058682	.1018497	.0398860	.0425364	.5353966	235.4843
#3	.1070268	.1021375	.0454940	.0409523	.5425083	235.1419

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5124993	.5084820	.9571905	244.1274	.5750026	.4982596
Stddev	.0026347	.0019615	.0013543	.5789	.0006823	.0009804
%RSD	.5140966	.3857658	.1414893	.2371360	.1186628	.1967663
#1	.5149552	.5084354	.9561909	244.1706	.5754126	.4984947
#2	.5097162	.5104665	.9566488	244.6835	.5753803	.4971831
#3	.5128264	.5065442	.9587319	243.5281	.5742150	.4991011

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4361649	98.10124	.4945974	255.5988	.9503477	.1978588
Stddev	.0087438	.23512	.0067300	.5637	.0016352	.0011801
%RSD	2.004700	.2396727	1.360699	.2205535	.1720606	.5964522
#1	.4430585	98.30072	.5018045	255.3308	.9494529	.1972744
#2	.4263296	98.16101	.4935109	255.2192	.9493552	.1970849
#3	.4391065	97.84201	.4884768	256.2466	.9522350	.1992171

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1252184	.4847786	.8577251	-.063425	-.004598	F -.212076
Stddev	.0023387	.0143586	.0048746	.131415	.002396	.003082
%RSD	1.867665	2.961888	.5683168	207.1965	52.10640	1.453176
#1	.1229636	.4987037	.8535537	.084350	-.004923	-.211031
#2	.1250589	.4700226	.8630836	-.167175	-.006814	-.215544
#3	.1276327	.4856094	.8565380	-.107452	-.002056	-.209652

Reviewed By:Mohan
On:1/8/2025 7:28:17 AM
Inst Id :P5

Sample Name: ICSAB053 Acquired: 01/06/2025 15:03:06 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v80) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICSAB053 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0088711	.0220540	-.003099	F .0133377	.0081435	.0058555
Stddev	.0013857	.0020870	.001059	.0021570	.0046683	.0006854
%RSD	15.62004	9.463268	34.18947	16.17190	57.32594	11.70497
#1	.0084169	.0239436	-.003959	.0148835	.0050071	.0050824
#2	.0077696	.0198139	-.003421	.0142560	.0059149	.0060956
#3	.0104269	.0224044	-.001915	.0108735	.0135084	.0063885

Elem	Li6707
Units	ppm
Avg	.0131806
Stddev	.0104004
%RSD	78.90680
#1	.0128032
#2	.0029740
#3	.0237645

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1507.916	13318.36	1264.662	1134.636	1526.519
Stddev	1.361	23.93	3.628	2.297	1.465
%RSD	.0902557	.1796637	.2868609	.2024340	.0959895
#1	1507.345	13291.88	1266.410	1136.742	1525.736
#2	1509.469	13338.44	1260.491	1132.187	1528.210
#3	1506.933	13324.75	1267.085	1134.980	1525.613

Reviewed By:Mohan
On:1/8/2025 7:28:17 AM
Inst Id :P5

Sample Name: CCV120 Acquired: 01/06/2025 15:06:54 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v80) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV120 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.030105	4.918566	25.11971	5.015791	4.970387	412.2122	10.36266
Stddev	.008059	.008772	.06032	.009834	.023331	.6841	.02146
%RSD	.1602241	.1783547	.2401136	.1960512	.4694011	.1659668	.2070856
#1	5.032411	4.928681	25.17509	5.009430	4.993898	411.7611	10.35365
#2	5.021144	4.913026	25.05544	5.010826	4.947240	412.9993	10.38716
#3	5.036760	4.913992	25.12861	5.027117	4.970023	411.8761	10.34718

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5175728	2.524855	417.4703	15.97784	2.548142	15.53121	420.4756
Stddev	.0016238	.006001	.8531	.04437	.006055	.01298	.3077
%RSD	.3137274	.2376923	.2043523	.2777187	.2376298	.0835884	.0731815
#1	.5168511	2.530091	416.8882	16.01001	2.552199	15.52239	420.1303
#2	.5194323	2.518306	418.4496	15.99629	2.541182	15.54612	420.7209
#3	.5164350	2.526167	417.0731	15.92722	2.551045	15.52514	420.5755

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	15.32863	417.5456	2.560302	1.285390	412.7581	2.581613	15.08492
Stddev	.03075	1.2883	.006325	.005027	2.7551	.026723	.02584
%RSD	.2006372	.3085429	.2470487	.3910497	.6674843	1.035146	.1713264
#1	15.31609	417.3229	2.567236	1.288280	410.4834	2.603573	15.10100
#2	15.36367	418.9308	2.554850	1.288305	415.8216	2.589407	15.05511
#3	15.30612	416.3832	2.558819	1.279586	411.9694	2.551859	15.09866

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	159.1404	5.031914	4.523702	4.914926	5.069645	5.083480	5.089082
Stddev	1.2384	.013565	.017443	.012018	.015320	.012926	.008277
%RSD	.7781760	.2695707	.3855857	.2445160	.3021928	.2542759	.1626366
#1	157.8494	5.046684	4.504430	4.928756	5.087326	5.079512	5.088782
#2	160.3185	5.020014	4.538405	4.907025	5.061296	5.097925	5.080959
#3	159.2533	5.029043	4.528272	4.908997	5.060313	5.073004	5.097504

Reviewed By:Mohan
On:1/8/2025 7:28:17 AM
Inst Id :P5

Sample Name: CCV120 Acquired: 01/06/2025 15:06:54 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v80) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV120 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	5.122184	4.873580	5.187670
Stddev	.010828	.009138	.019853
%RSD	.2113966	.1874971	.3826973
#1	5.131586	4.865999	5.164990
#2	5.110345	4.883726	5.196115
#3	5.124622	4.871015	5.201904

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1294.381	12538.73	1199.728	966.1263	1369.501
Stddev	.949	60.61	6.818	2.2574	2.523
%RSD	.0733191	.4833666	.5682956	.2336526	.1842459
#1	1293.769	12536.22	1202.485	966.7465	1368.314
#2	1295.475	12479.42	1191.963	963.6237	1372.399
#3	1293.901	12600.56	1204.735	968.0088	1367.791

Reviewed By:Mohan
On:1/8/2025 7:28:17 AM
Inst Id :P5

Sample Name: CCB120 Acquired: 01/06/2025 15:10:39 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v80) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB120 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.001810	.0020888	-.003795	-.000963	.0016772	.0402586	-.001242
Stddev	.002430	.0036088	.002817	.003220	.0024249	.0262449	.002697
%RSD	134.2692	172.7713	74.23156	334.4805	144.5774	65.19061	217.1229
#1	-.003055	-.001622	-.005902	.000415	.0038280	.0568564	.000192
#2	-.003366	.002301	-.004887	-.004642	-.000951	.0539183	-.004353
#3	.000990	.005587	-.000595	.001339	.002155	.0100012	.000435

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000191	-.000032	-.080383	.0006442	-.000393	.0030858	-.033943
Stddev	.000115	.000066	.051275	.0003312	.000098	.0088363	.017308
%RSD	60.25141	205.1127	63.78890	51.41294	24.87243	286.3570	50.99215
#1	-.000252	-.000030	-.027546	.0006988	-.000332	.0080753	-.014022
#2	-.000262	.000033	-.129938	.0002891	-.000506	-.007117	-.045294
#3	-.000058	-.000098	-.083664	.0009447	-.000341	.008299	-.042512

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000342	-.071570	.0004174	.0003036	-.024048	-.020557	-.000520
Stddev	.002384	.060144	.0016032	.0005799	.034844	.005302	.001101
%RSD	696.7347	84.03589	384.0784	190.9887	144.8974	25.79380	211.7818
#1	-.003039	-.130161	.0018763	-.000075	.005298	-.021076	-.000187
#2	.001486	-.009984	.0006748	.000971	-.014882	-.025581	.000376
#3	.000526	-.074564	-.001299	.000015	-.062559	-.015014	-.001749

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2688448	.0036658	.0152931	-.000426	-.001716	.0003921	-.001171
Stddev	.1058084	.0059646	.0005660	.001000	.002442	.0009841	.000955
%RSD	39.35667	162.7121	3.701165	234.7432	142.3129	250.9800	81.55674
#1	.3144036	-.002104	.0152992	.000338	-.003946	.0008873	-.000756
#2	.1478885	.009808	.0147241	-.000058	-.002096	-.000741	-.000493
#3	.3442422	.003293	.0158561	-.001557	.000894	.001030	-.002263

Reviewed By:Mohan
On:1/8/2025 7:28:17 AM
Inst Id :P5

Sample Name: CCB120 Acquired: 01/06/2025 15:10:39 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v80) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB120 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.0084783	-.000050	.0118742
Stddev	.0040578	.000055	.0054079
%RSD	47.86087	110.5612	45.54302
#1	.0040856	-.000014	.0125488
#2	.0120867	-.000114	.0061607
#3	.0092625	-.000022	.0169132

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1611.071	14231.50	1299.190	1214.606	1758.917
Stddev	1.490	16.24	7.833	1.751	1.097
%RSD	.0924805	.1141053	.6028767	.1441743	.0623534
#1	1612.572	14229.03	1291.367	1215.089	1757.947
#2	1611.048	14216.63	1299.173	1212.665	1760.107
#3	1609.592	14248.83	1307.032	1216.066	1758.696

Reviewed By:Mohan
On:1/8/2025 7:28:17 AM
Inst Id :P5

Sample Name: P5061-05A Acquired: 01/06/2025 15:14:40 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v80) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHL52A Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0866071	.0562354	.2707554	.0950745	.0259571	52.62931
Stddev	.0023754	.0060128	.0060134	.0104138	.0033361	.31091
%RSD	2.742710	10.69216	2.220967	10.95328	12.85226	.5907626
#1	.0870874	.0537800	.2671325	.0984509	.0297549	52.39496
#2	.0887056	.0630873	.2776969	.1033810	.0246171	52.51095
#3	.0840282	.0518389	.2674370	.0833914	.0234994	52.98202

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6037685	.0057299	.0020617	F 862.0724	.0820534	.1049747
Stddev	.0053567	.0001498	.0001193	4.0591	.0012900	.0002973
%RSD	.8872036	2.615104	5.784547	.4708518	1.572118	.2831968
#1	.5986080	.0055955	.0021976	857.7447	.0818567	.1048732
#2	.6033955	.0057029	.0020127	862.6777	.0834305	.1053094
#3	.6093018	.0058915	.0019747	865.7949	.0808731	.1047414

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1689389	139.4863	4.612642	80.27620	.1248803	-.009878
Stddev	.0179516	.9902	.035928	.79885	.0014516	.001533
%RSD	10.62606	.7098720	.7789008	.9951316	1.162355	15.51775
#1	.1511850	138.3786	4.574941	79.48833	.1253642	-.011423
#2	.1685498	139.7945	4.616499	80.25468	.1232486	-.008357
#3	.1870818	140.2856	4.646486	81.08560	.1260280	-.009855

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9053083	.1262987	.2549056	10.76920	4.242001	-.200776
Stddev	.0043250	.0032345	.0023496	.18837	.012279	.003918
%RSD	.4777392	2.560971	.9217646	1.749127	.2894715	1.951407
#1	.9024409	.1260087	.2554233	10.55170	4.245350	-.204680
#2	.9102831	.1232191	.2523403	10.87658	4.228395	-.196845
#3	.9032009	.1296685	.2569532	10.87933	4.252259	-.200804

Reviewed By:Mohan
On:1/8/2025 7:28:17 AM
Inst Id :P5

Sample Name: P5061-05A Acquired: 01/06/2025 15:14:40 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v80) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHL52A Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0032933	1.671308	10.74241	.0333917	.2966607	.5509550
Stddev	.0009322	.004535	.09953	.0027792	.0026455	.0034420
%RSD	28.30521	.2713280	.9265028	8.323113	.8917519	.6247340
#1	.0023304	1.670005	10.70601	.0345050	.2993598	.5474758
#2	.0033581	1.667568	10.66620	.0302284	.2965499	.5510308
#3	.0041913	1.676352	10.85501	.0354416	.2940724	.5543586

Elem	Li6707
Units	ppm
Avg	.0862691
Stddev	.0046838
%RSD	5.429322
#1	.0852336
#2	.0913840
#3	.0821897

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1773.886	15765.39	1492.529	1331.889	1459.543
Stddev	7.466	78.36	11.674	2.070	7.795
%RSD	.4209045	.4970450	.7821539	.1554188	.5340970
#1	1772.730	15807.98	1500.232	1333.558	1462.986
#2	1781.862	15674.96	1498.259	1332.536	1465.024
#3	1767.064	15813.24	1479.098	1329.573	1450.619

Reviewed By:Mohan
On:1/8/2025 7:28:17 AM
Inst Id :P5

Sample Name: P5080-10A Acquired: 01/06/2025 15:18:28 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v80) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHLE8A Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6169919	.0265900	4.408739	.2083788	.0377531	77.27520
Stddev	.0010032	.0025335	.010034	.0078068	.0030861	.53418
%RSD	.1625871	9.528032	.2276033	3.746446	8.174392	.6912754
#1	.6161559	.0244931	4.399350	.2082440	.0360692	76.69193
#2	.6167156	.0258718	4.407553	.2006402	.0413148	77.74062
#3	.6181043	.0294051	4.419313	.2162521	.0358753	77.39304

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.933924	.0070580	.0105150	86.01998	.3435001	.1080105
Stddev	.023525	.0001113	.0000884	.63713	.0012122	.0011605
%RSD	.8018395	1.576687	.8411924	.7406784	.3529019	1.074398
#1	2.921208	.0071123	.0104740	85.47540	.3443782	.1077633
#2	2.961071	.0069300	.0106165	86.72066	.3421170	.1069936
#3	2.919494	.0071317	.0104544	85.86389	.3440051	.1092747

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5618729	178.8143	9.543763	30.16721	.2118145	-.010907
Stddev	.0176378	1.7083	.060169	.17867	.0004827	.002126
%RSD	3.139111	.9553690	.6304566	.5922601	.2278719	19.49227
#1	.5426700	177.2234	9.499696	30.06637	.2120655	-.008909
#2	.5655980	180.6198	9.612314	30.37350	.2121199	-.010672
#3	.5773505	178.5997	9.519278	30.06175	.2112581	-.013141

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6506921	.1865550	2.995356	10.91975	F 16.35845	-.335291
Stddev	.0036352	.0043174	.010555	.30572	.06560	.000918
%RSD	.5586694	2.314253	.3523794	2.799741	.4010072	.2736679
#1	.6547088	.1853803	2.983567	10.61343	16.34843	-.334242
#2	.6497393	.1829465	3.003931	10.92095	16.29845	-.335944
#3	.6476281	.1913381	2.998569	11.22488	16.42849	-.335686

Reviewed By:Mohan
On:1/8/2025 7:28:17 AM
Inst Id :P5

Sample Name: P5080-10A Acquired: 01/06/2025 15:18:28 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v80) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHLE8A Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0109059	3.662810	8.548684	.2940465	1.156946	.1059129
Stddev	.0007765	.019389	.062038	.0021303	.012445	.0013155
%RSD	7.119750	.5293404	.7257020	.7244746	1.075641	1.242042
#1	.0115450	3.667655	8.511219	.2929191	1.143298	.1052483
#2	.0111310	3.641459	8.620293	.2965036	1.167665	.1074281
#3	.0100418	3.679317	8.514539	.2927168	1.159877	.1050624

Elem	Li6707
Units	ppm
Avg	.1321218
Stddev	.0108230
%RSD	8.191657
#1	.1259277
#2	.1446189
#3	.1258188

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1912.808	16992.58	1554.743	1435.727	1615.354
Stddev	.546	60.61	11.989	7.057	4.262
%RSD	.0285209	.3567123	.7711317	.4915110	.2638159
#1	1913.386	16938.06	1558.855	1440.531	1616.923
#2	1912.734	16981.82	1541.239	1427.625	1618.608
#3	1912.303	17057.85	1564.135	1439.025	1610.530

Reviewed By:Mohan
On:1/8/2025 7:28:17 AM
Inst Id :P5

Sample Name: P5084-13A Acquired: 01/06/2025 15:22:15 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v80) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHLX7A Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1132720	.0441519	.9178806	.1623530	.0349749	79.35758	.9029190
Stddev	.0014808	.0046620	.0036513	.0043263	.0034527	.29640	.0038862
%RSD	1.307340	10.55905	.3977920	2.664749	9.871843	.3735017	.4304007
#1	.1130274	.0444237	.9139068	.1633127	.0382628	79.69801	.9039658
#2	.1119286	.0393600	.9210875	.1576274	.0352836	79.15680	.8986167
#3	.1148599	.0486721	.9186474	.1661189	.0313782	79.21794	.9061746

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0064278	.0046453	269.8457	.1551498	.1331286	.3154816	170.7333
Stddev	.0000741	.0001201	.4239	.0000778	.0012229	.0054480	.3156
%RSD	1.153316	2.585619	.1570892	.0501152	.9185578	1.726892	.1848396
#1	.0064987	.0047790	270.1339	.1551751	.1323811	.3212074	171.0550
#2	.0063508	.0045466	269.3590	.1552117	.1324648	.3103621	170.4243
#3	.0064340	.0046102	270.0443	.1550625	.1345398	.3148753	170.7206

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	8.307216	64.67226	.1978687	-.014726	.7029653	.1668017	.6917456
Stddev	.012117	.17452	.0006545	.001080	.0168221	.0078998	.0014821
%RSD	.1458600	.2698536	.3307770	7.332247	2.393015	4.736037	.2142536
#1	8.319463	64.86125	.1985487	-.014755	.7223426	.1735528	.6930439
#2	8.306951	64.63836	.1972431	-.015792	.6921056	.1581135	.6920619
#3	8.295234	64.51719	.1978144	-.013633	.6944477	.1687387	.6901308

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	8.029612	7.511755	-.338403	.0092206	1.223140	13.93938	.1012765
Stddev	.195670	.025891	.003204	.0008681	.006195	.13074	.0024494
%RSD	2.436849	.3446673	.9467373	9.414881	.5064721	.9379189	2.418563
#1	8.122164	7.485836	-.341077	.0082229	1.215987	14.04854	.0985398
#2	8.161836	7.511812	-.334852	.0098035	1.226667	13.79449	.1032635
#3	7.804836	7.537616	-.339280	.0096354	1.226766	13.97510	.1020261

Reviewed By:Mohan
On:1/8/2025 7:28:17 AM
Inst Id :P5

Sample Name: P5084-13A Acquired: 01/06/2025 15:22:15 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v80) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHLX7A Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.8569652	.1732249	.1102758
Stddev	.0031878	.0016577	.0045575
%RSD	.3719818	.9569703	4.132846
#1	.8604744	.1751202	.1116396
#2	.8542482	.1725089	.1051921
#3	.8561731	.1720455	.1139958

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1940.941	17307.02	1598.109	1470.250	1584.632
Stddev	6.321	42.62	10.750	3.654	5.436
%RSD	.3256453	.2462749	.6726439	.2485063	.3430756
#1	1947.877	17352.26	1589.951	1467.227	1590.906
#2	1935.506	17267.62	1610.290	1469.212	1581.305
#3	1939.441	17301.18	1594.085	1474.310	1581.685

Reviewed By:Mohan
On:1/8/2025 7:28:17 AM
Inst Id :P5

Sample Name: P5086-07A Acquired: 01/06/2025 15:26:04 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v80) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHLN2A Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0911717	.0079181	.3073084	.2098935	.0512398	68.16230
Stddev	.0040224	.0066363	.0042048	.0042742	.0037933	.42572
%RSD	4.411856	83.81162	1.368270	2.036372	7.403072	.6245610
#1	.0955596	.0122777	.3119213	.2071934	.0468764	68.06072
#2	.0902963	.0002807	.3036899	.2076658	.0530900	67.79656
#3	.0876591	.0111958	.3063141	.2148214	.0537531	68.62961

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5498312	.0184482	.0027499	233.8261	.1293750	.1381641
Stddev	.0014536	.0001521	.0001318	.4942	.0003039	.0003622
%RSD	.2643730	.8243738	4.792543	.2113558	.2348779	.2621657
#1	.5493340	.0183979	.0026030	233.6015	.1291840	.1378568
#2	.5486914	.0183277	.0028578	233.4840	.1292156	.1380720
#3	.5514682	.0186191	.0027888	234.3927	.1297254	.1385635

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4057715	243.3045	4.570750	60.23299	.2179537	-.019772
Stddev	.0081579	.8565	.019624	.19547	.0016451	.001856
%RSD	2.010476	.3520217	.4293347	.3245173	.7548021	9.384402
#1	.4014836	243.1301	4.582826	60.30655	.2174257	-.021870
#2	.4006517	242.5486	4.548107	60.01142	.2197979	-.018346
#3	.4151792	244.2347	4.581317	60.38100	.2166373	-.019102

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7139223	.2215813	1.079097	11.01419	F 10.03541	-.477275
Stddev	.0116229	.0072432	.003934	.11872	.03230	.004973
%RSD	1.628027	3.268885	.3645533	1.077895	.3218982	1.041910
#1	.7254525	.2144298	1.075378	10.94797	10.05684	-.473965
#2	.7022090	.2289129	1.083215	10.94335	10.05115	-.474867
#3	.7141054	.2214011	1.078698	11.15126	9.99826	-.482993

Reviewed By:Mohan
On:1/8/2025 7:28:17 AM
Inst Id :P5

Sample Name: P5086-07A Acquired: 01/06/2025 15:26:04 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v80) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHLN2A Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0064848	.7815521	9.232265	.0296671	1.400997	.0240221
Stddev	.0015718	.0051563	.049712	.0023468	.002367	.0005468
%RSD	24.23878	.6597531	.5384593	7.910331	.1689651	2.276180
#1	.0054330	.7759487	9.212122	.0315078	1.403727	.0236544
#2	.0082917	.7860971	9.195785	.0304691	1.399743	.0237615
#3	.0057296	.7826104	9.288887	.0270245	1.399521	.0246505

Elem	Li6707
Units	ppm
Avg	.1086241
Stddev	.0027023
%RSD	2.487759
#1	.1083563
#2	.1060656
#3	.1114503

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2089.787	18627.81	1703.779	1579.657	1581.846
Stddev	7.098	100.60	5.291	6.252	4.732
%RSD	.3396668	.5400305	.3105682	.3957726	.2991550
#1	2084.794	18533.22	1702.574	1578.138	1579.448
#2	2086.654	18616.73	1709.568	1574.305	1578.793
#3	2097.913	18733.49	1699.193	1586.529	1587.297

Reviewed By:Mohan
On:1/8/2025 7:28:17 AM
Inst Id :P5

Sample Name: P5089-01A Acquired: 01/06/2025 15:29:51 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v80) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHLZ4A Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6582805	-.026195	1.911712	.1915191	.0389023	78.71596
Stddev	.0021964	.002678	.007796	.0055109	.0001092	.66028
%RSD	.3336536	10.22420	.4078223	2.877477	.2806791	.8388151
#1	.6558235	-.028852	1.920033	.1929805	.0389913	78.50216
#2	.6589648	-.023496	1.904575	.1854248	.0389352	78.18907
#3	.6600533	-.026236	1.910528	.1961520	.0387805	79.45665

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.643515	.0076796	.0067567	40.47417	.1852679	.1243861
Stddev	.005759	.0002378	.0002552	.19485	.0005933	.0005902
%RSD	.3504140	3.096838	3.776619	.4814215	.3202588	.4744705
#1	1.643583	.0074764	.0070399	40.35719	.1858908	.1240983
#2	1.637722	.0076213	.0065447	40.36621	.1852037	.1250649
#3	1.649240	.0079412	.0066854	40.69910	.1847094	.1239950

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8590058	160.1434	8.923215	22.87117	.2241018	-.012485
Stddev	.0098014	1.2615	.087898	.18120	.0009560	.001130
%RSD	1.141018	.7877215	.9850449	.7922721	.4265772	9.047238
#1	.8589523	159.2595	8.858129	22.86368	.2237382	-.013723
#2	.8492313	159.5826	8.888313	22.69382	.2251862	-.011511
#3	.8688339	161.5880	9.023203	23.05600	.2233810	-.012222

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5607507	.1925822	1.032728	9.969420	F 14.22380	-.328363
Stddev	.0106946	.0125232	.006737	.099476	.01609	.002207
%RSD	1.907188	6.502803	.6523753	.9978108	.1131361	.6721313
#1	.5710842	.2041005	1.040469	9.898825	14.22951	-.327472
#2	.5497283	.1792516	1.029535	10.08319	14.20563	-.326741
#3	.5614396	.1943946	1.028182	9.92625	14.23626	-.330876

Reviewed By:Mohan
On:1/8/2025 7:28:17 AM
Inst Id :P5

Sample Name: P5089-01A Acquired: 01/06/2025 15:29:51 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v80) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHLZ4A Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0169542	4.737307	9.631468	.0609688	1.132279	.1952504
Stddev	.0010963	.012366	.048902	.0003837	.008277	.0009097
%RSD	6.465942	.2610265	.5077282	.6293435	.7309936	.4659350
#1	.0166665	4.743531	9.652479	.0610636	1.129842	.1952752
#2	.0181656	4.723066	9.575573	.0605466	1.125494	.1943285
#3	.0160305	4.745325	9.666353	.0612962	1.141501	.1961475

Elem	Li6707
Units	ppm
Avg	.0950977
Stddev	.0024232
%RSD	2.548111
#1	.0956421
#2	.0972024
#3	.0924486

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1932.893	17163.96	1574.085	1445.273	1639.100
Stddev	4.965	29.39	8.071	6.129	5.209
%RSD	.2568569	.1712600	.5127455	.4240684	.3177824
#1	1932.274	17193.35	1571.340	1438.247	1637.616
#2	1938.138	17134.56	1583.170	1449.521	1644.890
#3	1928.267	17163.97	1567.745	1448.052	1634.794

Reviewed By:Mohan
On:1/8/2025 7:28:17 AM
Inst Id :P5

Sample Name: P5091-07A Acquired: 01/06/2025 15:33:37 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v80) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHLS0A Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1621276	.0298746	2.581973	.2290222	.0428645	79.98834
Stddev	.0046047	.0097711	.002857	.0050550	.0029851	.28653
%RSD	2.840173	32.70698	.1106711	2.207201	6.963995	.3582149
#1	.1673732	.0410478	2.585255	.2340495	.0394707	80.18289
#2	.1587523	.0256462	2.580034	.2239400	.0450834	79.65931
#3	.1602572	.0229299	2.580630	.2290770	.0440394	80.12283

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.344820	.0077806	.0212161	163.2175	.1569510	.1310368
Stddev	.006648	.0002027	.0001798	.2148	.0006594	.0004709
%RSD	.2835213	2.605116	.8472329	.1316325	.4201030	.3593730
#1	2.342458	.0080132	.0213860	162.9940	.1561897	.1312709
#2	2.352326	.0076418	.0212342	163.2361	.1573384	.1313448
#3	2.339675	.0076868	.0210279	163.4224	.1573250	.1304947

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3441262	196.6931	10.46798	42.11592	.2373678	-.015041
Stddev	.0050415	.9813	.01560	.27281	.0015171	.000503
%RSD	1.465021	.4988830	.1490297	.6477614	.6391244	3.344709
#1	.3497838	197.0592	10.47027	42.43085	.2385432	-.015562
#2	.3424851	195.5814	10.45136	41.95233	.2356552	-.014558
#3	.3401096	197.4387	10.48231	41.96457	.2379051	-.015003

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.385274	.1911368	4.789042	12.97573	F 21.89552	-.242425
Stddev	.027751	.0137133	.022677	.08975	.04738	.000666
%RSD	2.003314	7.174614	.4735171	.6916767	.2163939	.2748432
#1	1.388972	.1780978	4.800651	12.99915	21.93688	-.243068
#2	1.410991	.2054373	4.803565	12.87659	21.84382	-.241738
#3	1.355859	.1898753	4.762911	13.05145	21.90586	-.242467

Reviewed By:Mohan
On:1/8/2025 7:28:17 AM
Inst Id :P5

Sample Name: P5091-07A Acquired: 01/06/2025 15:33:37 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v80) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHLS0A Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0150842	4.333519	9.329895	.1191937	.9592206	.1716397
Stddev	.0000665	.011948	.024825	.0019038	.0022270	.0010780
%RSD	.4405571	.2756997	.2660851	1.597250	.2321718	.6280707
#1	.0150194	4.345593	9.339557	.1186563	.9587319	.1728100
#2	.0151522	4.321702	9.348438	.1213084	.9572784	.1714218
#3	.0150812	4.333262	9.301692	.1176163	.9616514	.1706873

Elem	Li6707
Units	ppm
Avg	.1323460
Stddev	.0023412
%RSD	1.768966
#1	.1324035
#2	.1346579
#3	.1299767

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1941.474	17268.72	1592.024	1450.919	1604.605
Stddev	2.707	12.86	6.480	6.722	2.086
%RSD	.1394540	.0744573	.4070115	.4633152	.1299731
#1	1939.788	17254.29	1585.182	1443.929	1602.833
#2	1940.036	17272.87	1592.822	1451.491	1606.903
#3	1944.597	17278.98	1598.068	1457.336	1604.079

Reviewed By:Mohan
On:1/8/2025 7:28:17 AM
Inst Id :P5

Sample Name: P5121-01 Acquired: 01/06/2025 15:37:24 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v80) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHM42 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0884159	.0028314	2.560855	.0372298	.0305631	46.42338	.7177016
Stddev	.0066435	.0046960	.014743	.0067608	.0010078	.25907	.0057329
%RSD	7.513971	165.8544	.5757000	18.15962	3.297451	.5580657	.7987784
#1	.0937378	.0004524	2.569915	.0297062	.0317268	46.12923	.7144402
#2	.0809701	.0082407	2.568807	.0427956	.0299845	46.52330	.7143434
#3	.0905396	-.000199	2.543843	.0391878	.0299780	46.61761	.7243210

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0052687	.0106696	390.6754	.1318967	.1012777	.4026963	141.8106
Stddev	.0001114	.0001113	1.0988	.0019232	.0010058	.0082425	1.0919
%RSD	2.114085	1.042794	.2812641	1.458106	.9930705	2.046824	.7699653
#1	.0053928	.0106725	389.6410	.1299444	.1014478	.4043644	140.6538
#2	.0051773	.0105569	391.8289	.1319563	.1021876	.4099772	141.9548
#3	.0052360	.0107794	390.5562	.1337894	.1001978	.3937474	142.8233

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.107946	145.5558	.1894291	-.011629	.9077074	.1197382	5.614499
Stddev	.048963	.7090	.0020698	.000696	.0125382	.0171405	.036523
%RSD	.8016264	.4870880	1.092630	5.981917	1.381303	14.31497	.6505168
#1	6.053093	144.7533	.1918112	-.011033	.9122467	.1214741	5.595756
#2	6.123511	145.8168	.1884068	-.012393	.9173437	.1017958	5.591152
#3	6.147234	146.0973	.1880695	-.011462	.8935318	.1359446	5.656588

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.628184	9.288245	-.234867	.0127056	7.644997	8.708081	.1243463
Stddev	.021477	.043634	.002192	.0009920	.057763	.029854	.0009072
%RSD	.2230641	.4697714	.9332386	7.807738	.7555703	.3428305	.7295423
#1	9.605368	9.311253	-.235732	.0138146	7.667767	8.678841	.1252997
#2	9.648008	9.315559	-.236495	.0123997	7.687905	8.738513	.1242452
#3	9.631174	9.237923	-.232375	.0119026	7.579319	8.706888	.1234939

Reviewed By:Mohan
On:1/8/2025 7:28:17 AM
Inst Id :P5

Sample Name: P5121-01 Acquired: 01/06/2025 15:37:24 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v80) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHM42 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.7378102	.2676887	.0641582
Stddev	.0062557	.0024231	.0097191
%RSD	.8478793	.9051795	15.14864
#1	.7309504	.2649792	.0701217
#2	.7432000	.2696476	.0529431
#3	.7392803	.2684394	.0694098

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1693.731	15079.25	1405.518	1271.750	1518.206
Stddev	9.682	31.75	1.704	7.052	9.072
%RSD	.5716421	.2105382	.1212518	.5545468	.5975607
#1	1684.800	15060.94	1406.615	1274.760	1513.230
#2	1692.374	15115.91	1403.555	1276.798	1512.711
#3	1704.021	15060.90	1406.384	1263.692	1528.677

Reviewed By:Mohan
On:1/8/2025 7:28:17 AM
Inst Id :P5

Sample Name: P5121-02 Acquired: 01/06/2025 15:41:11 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v80) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHM43 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1400354	-.005679	4.335240	.0468513	.0428711	51.87614	.9609553
Stddev	.0008094	.006291	.021562	.0062169	.0020508	.06389	.0035614
%RSD	.5779924	110.7779	.4973671	13.26933	4.783599	.1231555	.3706148
#1	.1391415	-.012759	4.355992	.0421200	.0452215	51.83516	.9583085
#2	.1402458	-.000732	4.312951	.0538925	.0419457	51.94976	.9595531
#3	.1407188	-.003546	4.336778	.0445415	.0414462	51.84351	.9650045

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0070270	.0232942	603.2409	.1549054	.1169557	1.301715	175.7341
Stddev	.0002065	.0001062	1.0151	.0017427	.0004927	.018773	.6531
%RSD	2.938000	.4560649	.1682805	1.124978	.4212658	1.442159	.3716449
#1	.0070486	.0231786	602.5983	.1565442	.1175246	1.280158	175.1499
#2	.0072218	.0233164	604.4112	.1550972	.1166631	1.314464	176.4392
#3	.0068106	.0233876	602.7133	.1530748	.1166796	1.310524	175.6133

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.034356	285.8271	.2696121	-.012737	1.164986	.1757342	14.91043
Stddev	.019131	.3434	.0021238	.000553	.007881	.0077921	.07317
%RSD	.2719610	.1201431	.7877287	4.341876	.6765084	4.434053	.4907374
#1	7.016808	285.4306	.2683038	-.012311	1.174029	.1801495	14.83754
#2	7.054750	286.0216	.2684699	-.013362	1.159582	.1803158	14.90987
#3	7.031509	286.0291	.2720626	-.012539	1.161347	.1667371	14.98388

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.622927	9.159916	-.306923	.0144107	7.572315	8.872471	.1953521
Stddev	.252657	.039452	.004119	.0010885	.031482	.048559	.0026353
%RSD	3.314433	.4307029	1.342154	7.553645	.4157571	.5473041	1.348996
#1	7.331871	9.195097	-.311590	.0154391	7.591887	8.927827	.1949935
#2	7.751125	9.117261	-.303794	.0132706	7.535999	8.852527	.1929145
#3	7.785785	9.167388	-.305385	.0145224	7.589060	8.837059	.1981484

Reviewed By:Mohan
On:1/8/2025 7:28:17 AM
Inst Id :P5

Sample Name: P5121-02 Acquired: 01/06/2025 15:41:11 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v80) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHM43 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	1.082041	.3183544	.0722711
Stddev	.007540	.0016475	.0057272
%RSD	.6968520	.5174960	7.924634
#1	1.079153	.3184653	.0727041
#2	1.076373	.3199436	.0663396
#3	1.090599	.3166542	.0777695

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1673.887	14975.78	1401.909	1250.321	1438.136
Stddev	7.537	57.27	2.343	9.373	9.316
%RSD	.4502760	.3824078	.1671540	.7496620	.6477665
#1	1673.310	15020.64	1401.629	1261.143	1436.007
#2	1681.696	14911.27	1399.718	1244.989	1448.332
#3	1666.654	14995.43	1404.379	1244.829	1430.069

Reviewed By:Mohan
On:1/8/2025 7:28:17 AM
Inst Id :P5

Sample Name: P5121-03 Acquired: 01/06/2025 15:44:58 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v80) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHM44 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1685038	-.012511	2.350556	.0638793	.0345980	67.83240
Stddev	.0064290	.007193	.004708	.0045417	.0036974	.74261
%RSD	3.815352	57.48990	.2002860	7.109740	10.68683	1.094773
#1	.1723006	-.004382	2.355483	.0594728	.0315069	67.01388
#2	.1721299	-.018049	2.346103	.0685450	.0335930	68.02034
#3	.1610808	-.015103	2.350080	.0636202	.0386940	68.46299

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5911215	.0083340	.0525929	517.1953	.0991677	.1644037
Stddev	.0058086	.0001225	.0002816	4.4800	.0004449	.0009344
%RSD	.9826417	1.469446	.5354073	.8662180	.4486546	.5683556
#1	.5862006	.0082049	.0529180	512.4640	.0992086	.1638279
#2	.5896351	.0084485	.0524365	517.7495	.0995907	.1639013
#3	.5975289	.0083487	.0524243	521.3725	.0987037	.1654818

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3064602	202.9794	6.930634	99.09647	.2483250	-.016811
Stddev	.0166313	2.0838	.062304	.93085	.0002601	.000370
%RSD	5.426887	1.026619	.8989677	.9393357	.1047586	2.198684
#1	.2905249	200.8543	6.858935	98.02196	.2486016	-.016964
#2	.3051462	203.0644	6.961357	99.65712	.2480853	-.017079
#3	.3237094	205.0194	6.971609	99.61034	.2482882	-.016389

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.320477	.1799857	F 61.07805	11.99985	7.302272	-.323889
Stddev	.008153	.0017261	.16494	.05682	.008075	.004325
%RSD	.6174256	.9590031	.2700400	.4735175	.1105882	1.335251
#1	1.320351	.1819610	60.88773	12.01354	7.310732	-.328723
#2	1.312387	.1787678	61.16722	11.93744	7.301441	-.320389
#3	1.328692	.1792284	61.17920	12.04858	7.294645	-.322554

Reviewed By:Mohan
On:1/8/2025 7:28:17 AM
Inst Id :P5

Sample Name: P5121-03 Acquired: 01/06/2025 15:44:58 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v80) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHM44 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0124667	4.966998	9.362461	.0841604	.9473139	.4717607
Stddev	.0010054	.014035	.024357	.0007988	.0147218	.0042638
%RSD	8.064800	.2825580	.2601566	.9491459	1.554058	.9037968
#1	.0133528	4.983140	9.335737	.0839371	.9303146	.4669721
#2	.0113740	4.960174	9.368230	.0834970	.9558326	.4731640
#3	.0126734	4.957681	9.383415	.0850471	.9557945	.4751459

Elem	Li6707
Units	ppm
Avg	.1120711
Stddev	.0074938
%RSD	6.686680
#1	.1080252
#2	.1207183
#3	.1074698

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1737.448	15482.25	1445.837	1306.801	1486.970
Stddev	6.449	95.05	9.230	10.208	2.658
%RSD	.3711794	.6139516	.6384107	.7811769	.1787231
#1	1744.804	15544.41	1452.305	1315.758	1489.401
#2	1734.772	15529.50	1449.939	1308.959	1487.376
#3	1732.767	15372.83	1435.266	1295.686	1484.132

Reviewed By:Mohan
On:1/8/2025 7:28:17 AM
Inst Id :P5

Sample Name: P5121-04 Acquired: 01/06/2025 15:48:54 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v80) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHM45 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0798280	-.002686	.2954936	.0618742	.0367646	66.86296	.6792873
Stddev	.0018917	.002367	.0006138	.0021865	.0019755	.14274	.0023446
%RSD	2.369753	88.12402	.2077132	3.533780	5.373468	.2134760	.3451515
#1	.0788356	-.005204	.2961051	.0597195	.0372449	66.77302	.6813466
#2	.0786391	-.002348	.2954980	.0640911	.0384557	66.78831	.6797798
#3	.0820095	-.000506	.2948776	.0618119	.0345932	67.02754	.6767356

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0057611	.0040811	241.8321	.0979438	.1274336	.1734282	176.4601
Stddev	.0001197	.0001103	.3184	.0008876	.0004407	.0090780	.3132
%RSD	2.076993	2.701895	.1316473	.9062702	.3458320	5.234420	.1774996
#1	.0056469	.0040366	241.5161	.0984113	.1278259	.1650093	176.1957
#2	.0057509	.0042067	241.8274	.0985000	.1275182	.1830461	176.3786
#3	.0058856	.0040001	242.1527	.0969201	.1269567	.1722293	176.8060

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	13.24787	55.84549	.1848699	-.013973	.5924796	.1553772	.8909760
Stddev	.02658	.10601	.0019310	.001678	.0189494	.0049074	.0027422
%RSD	.2006058	.1898313	1.044535	12.00636	3.198314	3.158384	.3077791
#1	13.22002	55.93938	.1852651	-.014961	.6130680	.1580726	.8903077
#2	13.25064	55.73052	.1865727	-.014922	.5886016	.1497128	.8939907
#3	13.27295	55.86657	.1827718	-.012036	.5757692	.1583461	.8886298

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.575055	5.672821	-.353378	.0091927	1.086082	8.892541	.0249417
Stddev	.072898	.013836	.005285	.0002515	.002679	.073661	.0015871
%RSD	1.108704	.2439019	1.495432	2.736162	.2466273	.8283493	6.363258
#1	6.653538	5.670143	-.355858	.0094685	1.089161	8.968893	.0264153
#2	6.509461	5.660519	-.356967	.0091339	1.084794	8.886826	.0232614
#3	6.562165	5.687800	-.347310	.0089758	1.084290	8.821903	.0251485

Reviewed By:Mohan
On:1/8/2025 7:28:17 AM
Inst Id :P5

Sample Name: P5121-04 Acquired: 01/06/2025 15:48:54 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v80) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHM45 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.7430209	.1418887	.0989610
Stddev	.0019970	.0005900	.0002554
%RSD	.2687682	.4158083	.2580868
#1	.7433475	.1415866	.0987062
#2	.7448345	.1415110	.0989600
#3	.7408807	.1425686	.0992170

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1911.711	16920.57	1558.584	1429.475	1585.649
Stddev	.773	54.97	7.778	5.983	1.414
%RSD	.0404270	.3248985	.4990303	.4185359	.0891579
#1	1911.005	16930.65	1549.626	1436.329	1584.017
#2	1912.537	16969.81	1562.513	1426.796	1586.476
#3	1911.592	16861.26	1563.614	1425.299	1586.454

Reviewed By:Mohan
On:1/8/2025 7:28:17 AM
Inst Id :P5

Sample Name: P5121-05 Acquired: 01/06/2025 15:52:41 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v80) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHM46 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1866415	-.007400	15.08237	.0535688	.0471345	49.07236
Stddev	.0044618	.000198	.00385	.0035255	.0023960	.08727
%RSD	2.390570	2.669469	.0255360	6.581187	5.083335	.1778339
#1	.1846486	-.007174	15.08554	.0537939	.0494823	48.97459
#2	.1917525	-.007540	15.07809	.0499361	.0446931	49.10012
#3	.1835236	-.007487	15.08350	.0569763	.0472280	49.14237

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.396854	.0068715	.0052958	221.7211	.2995429	.1023727
Stddev	.007205	.0002905	.0001873	.3989	.0013743	.0002469
%RSD	.3006019	4.228372	3.536697	.1798923	.4588126	.2411895
#1	2.394903	.0071404	.0052183	221.4448	.2988215	.1023986
#2	2.404833	.0065633	.0055095	222.1784	.3011277	.1026057
#3	2.390825	.0069106	.0051598	221.5402	.2986794	.1021139

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.569370	178.7984	13.53860	52.81528	.1519139	-.014207
Stddev	.023970	.3305	.00441	.20677	.0007373	.001185
%RSD	1.527382	.1848187	.0325697	.3914938	.4853190	8.341859
#1	1.542244	178.4230	13.53734	52.62579	.1521138	-.013288
#2	1.587701	179.0455	13.54350	53.03582	.1525306	-.013789
#3	1.578164	178.9267	13.53496	52.78422	.1510973	-.015545

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.017855	.1605133	2.858705	4.765979	F 10.86989	-.352031
Stddev	.005363	.0045688	.004690	.055675	.02460	.003469
%RSD	.5268964	2.846363	.1640763	1.168168	.2262679	.9854886
#1	1.024014	.1553453	2.855203	4.775657	10.88553	-.348096
#2	1.015335	.1640152	2.864034	4.706100	10.84154	-.353347
#3	1.014217	.1621794	2.856879	4.816180	10.88260	-.354649

Reviewed By:Mohan
On:1/8/2025 7:28:17 AM
Inst Id :P5

Sample Name: P5121-05 Acquired: 01/06/2025 15:52:41 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v80) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHM46 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0158749	4.357889	8.901950	.4153503	1.106983	.3984304
Stddev	.0006548	.008237	.023769	.0005088	.005154	.0021707
%RSD	4.124815	.1890028	.2670040	.1224927	.4655459	.5448225
#1	.0166262	4.349968	8.890147	.4148580	1.102459	.3989028
#2	.0155732	4.357290	8.886393	.4158741	1.105898	.4003261
#3	.0154254	4.366408	8.929310	.4153188	1.112593	.3960624

Elem	Li6707
Units	ppm
Avg	.0724088
Stddev	.0084746
%RSD	11.70375
#1	.0821938
#2	.0674217
#3	.0676111

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1753.760	15698.65	1437.378	1321.138	1609.241
Stddev	8.089	102.85	4.277	9.667	6.145
%RSD	.4612233	.6551512	.2975339	.7317149	.3818759
#1	1754.678	15661.22	1433.826	1315.531	1609.996
#2	1761.350	15619.76	1436.182	1315.582	1614.973
#3	1745.251	15814.98	1442.125	1332.300	1602.753

Reviewed By:Mohan
On:1/8/2025 7:28:17 AM
Inst Id :P5

Sample Name: P5121-06 Acquired: 01/06/2025 15:56:28 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v80) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHM47 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1651895	-.010145	17.61763	.0370459	.0313515	46.93957	1.072410
Stddev	.0063286	.003905	.03183	.0080987	.0047468	.23822	.002457
%RSD	3.831090	38.49510	.1806888	21.86134	15.14061	.5074965	.2291061
#1	.1720817	-.010002	17.63339	.0279982	.0289993	47.13699	1.074752
#2	.1596401	-.014121	17.58099	.0395218	.0368151	47.00674	1.072626
#3	.1638467	-.006314	17.63851	.0436176	.0282402	46.67498	1.069852

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0084921	.0025976	120.8812	.0922692	.0802535	.2615906	136.7218
Stddev	.0000354	.0001969	.3383	.0021233	.0005313	.0137232	.8954
%RSD	.4173167	7.580270	.2798493	2.301180	.6620129	5.246061	.6549176
#1	.0085268	.0027147	120.8651	.0947060	.0805727	.2609787	137.4495
#2	.0084934	.0027078	121.2273	.0912853	.0796402	.2756095	136.9941
#3	.0084560	.0023703	120.5513	.0908164	.0805476	.2481836	135.7219

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.826551	20.92996	.1198682	-.012072	1.410880	.1398629	1.114846
Stddev	.020499	.09549	.0016394	.001048	.018153	.0095691	.010787
%RSD	.7252442	.4562442	1.367666	8.678736	1.286670	6.841746	.9675685
#1	2.843151	20.81973	.1195911	-.011276	1.402061	.1406945	1.109103
#2	2.832864	20.98722	.1183850	-.013259	1.431758	.1489890	1.108145
#3	2.803637	20.98294	.1216285	-.011680	1.398822	.1299051	1.127289

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.128685	4.749404	-.179162	.0158677	5.580279	5.685453	.1643357
Stddev	.196611	.014518	.001736	.0003545	.022200	.057963	.0025355
%RSD	6.284152	.3056702	.9688800	2.234271	.3978356	1.019489	1.542877
#1	3.078310	4.760226	-.181029	.0155530	5.594948	5.723512	.1669753
#2	3.345582	4.732906	-.177596	.0157983	5.554739	5.714104	.1641125
#3	2.962161	4.755081	-.178861	.0162518	5.591152	5.618745	.1619191

Reviewed By:Mohan
On:1/8/2025 7:28:17 AM
Inst Id :P5

Sample Name: P5121-06 Acquired: 01/06/2025 15:56:28 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v80) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHM47 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	1.825665	.4349974	.0670770
Stddev	.010183	.0015462	.0057893
%RSD	.5577901	.3554574	8.630757
#1	1.833944	.4360171	.0714350
#2	1.828757	.4357569	.0692878
#3	1.814294	.4332183	.0605081

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1700.650	15138.49	1381.838	1285.724	1687.021
Stddev	4.878	23.43	8.901	13.658	4.766
%RSD	.2868526	.1547401	.6441764	1.062262	.2825261
#1	1706.259	15131.60	1377.864	1294.009	1691.265
#2	1697.394	15164.59	1375.616	1293.202	1687.934
#3	1698.297	15119.29	1392.035	1269.960	1681.865

Reviewed By:Mohan
On:1/8/2025 7:28:17 AM
Inst Id :P5

Sample Name: P5121-07 Acquired: 01/06/2025 16:00:16 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v80) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHM48 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2103859	-.017119	4.454817	.0643930	.0477552	48.47532
Stddev	.0046584	.001717	.009131	.0054947	.0006354	.34958
%RSD	2.214211	10.03118	.2049737	8.533131	1.330459	.7211585
#1	.2068952	-.018546	4.464801	.0604871	.0483486	48.77480
#2	.2085870	-.015213	4.446890	.0706761	.0470849	48.55997
#3	.2156755	-.017598	4.452760	.0620159	.0478322	48.09118

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.331940	.0083974	.0035795	268.0807	.1051000	.2494991
Stddev	.006155	.0002724	.0001840	1.7152	.0007102	.0011215
%RSD	.4620778	3.244186	5.140194	.6398112	.6757238	.4495077
#1	1.334082	.0087118	.0036361	269.5408	.1043638	.2507288
#2	1.336737	.0082326	.0033739	268.5095	.1051553	.2492360
#3	1.325000	.0082477	.0037286	266.1918	.1057809	.2485326

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.017818	197.2441	5.956711	68.08199	.2845670	-.016397
Stddev	.016751	.7856	.054503	.52591	.0010359	.001434
%RSD	.5550588	.3982762	.9149890	.7724586	.3640257	8.745398
#1	3.036965	197.9554	5.998115	68.55233	.2842248	-.017738
#2	3.010623	197.3758	5.977056	68.17946	.2857307	-.014885
#3	3.005868	196.4009	5.894962	67.51416	.2837456	-.016566

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.338381	.1578269	1.278975	6.810803	F 10.08557	-.366748
Stddev	.019091	.0114826	.004415	.336718	.02415	.005390
%RSD	1.426419	7.275461	.3452113	4.943878	.2394648	1.469792
#1	1.360071	.1594085	1.282679	6.896398	10.11343	-.369160
#2	1.324127	.1684368	1.274089	7.096462	10.07051	-.370512
#3	1.330944	.1456355	1.280155	6.439548	10.07277	-.360573

Reviewed By:Mohan
On:1/8/2025 7:28:17 AM
Inst Id :P5

Sample Name: P5121-07 Acquired: 01/06/2025 16:00:16 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v80) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHM48 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0193675	6.243751	7.737627	.1904587	1.317242	.4319169
Stddev	.0009894	.010069	.085837	.0020097	.013215	.0039167
%RSD	5.108377	.1612647	1.109343	1.055183	1.003254	.9068087
#1	.0190443	6.255268	7.803331	.1907184	1.327434	.4330263
#2	.0185802	6.236616	7.769041	.1923259	1.321981	.4351591
#3	.0204781	6.239367	7.640508	.1883318	1.302311	.4275651

Elem	Li6707
Units	ppm
Avg	.0913830
Stddev	.0052755
%RSD	5.772916
#1	.0974663
#2	.0880668
#3	.0886158

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1735.306	15423.40	1431.401	1301.699	1575.936
Stddev	3.622	47.49	16.410	9.828	5.663
%RSD	.2087463	.3078943	1.146442	.7549869	.3593564
#1	1731.143	15381.12	1416.674	1291.975	1569.915
#2	1737.031	15474.78	1428.439	1311.627	1576.736
#3	1737.742	15414.29	1449.091	1301.494	1581.157

Reviewed By:Mohan
On:1/8/2025 7:28:17 AM
Inst Id :P5

Sample Name: P5121-08 Acquired: 01/06/2025 16:04:02 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v80) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHM49 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1274907	-.004439	3.228730	.0476053	.0434522	57.40123
Stddev	.0015772	.002969	.010136	.0052533	.0053659	.13515
%RSD	1.237127	66.87961	.3139247	11.03514	12.34889	.2354459
#1	.1271398	-.007503	3.236053	.0447906	.0490901	57.27432
#2	.1292138	-.004241	3.232975	.0536662	.0384078	57.38603
#3	.1261184	-.001575	3.217162	.0443591	.0428587	57.54334

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.584529	.0062441	.0127623	404.2087	.1997167	.1157472
Stddev	.008595	.0001207	.0002508	1.3860	.0003144	.0009204
%RSD	.5424265	1.933323	1.965381	.3428844	.1574382	.7952286
#1	1.574606	.0062229	.0127721	402.6460	.1997723	.1151886
#2	1.589367	.0061353	.0130081	405.2890	.1999997	.1168096
#3	1.589615	.0063740	.0125067	404.6911	.1993782	.1152435

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5728579	172.5591	7.599405	144.8608	.2465504	-.011352
Stddev	.0161824	.6608	.027041	.3037	.0005072	.001304
%RSD	2.824861	.3829642	.3558332	.2096440	.2057052	11.48411
#1	.5915420	171.8508	7.577377	144.7219	.2470266	-.009852
#2	.5632940	172.6672	7.591253	144.6514	.2466075	-.011995
#3	.5637376	173.1592	7.629584	145.2091	.2460171	-.012209

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.282613	.1702359	3.044135	10.57239	F 16.31923	-.271812
Stddev	.013323	.0119960	.023068	.17004	.02750	.002816
%RSD	1.038707	7.046670	.7577979	1.608324	.1684934	1.036069
#1	1.277970	.1801958	3.049011	10.49909	16.30354	-.269081
#2	1.297635	.1735928	3.064376	10.45130	16.35098	-.274706
#3	1.272232	.1569191	3.019019	10.76679	16.30318	-.271649

Reviewed By:Mohan
On:1/8/2025 7:28:17 AM
Inst Id :P5

Sample Name: P5121-08 Acquired: 01/06/2025 16:04:02 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v80) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHM49 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0161360	8.114722	8.984269	.2217286	1.018103	.3829761
Stddev	.0006121	.011269	.023123	.0012301	.002646	.0011385
%RSD	3.793094	.1388770	.2573668	.5547717	.2599222	.2972891
#1	.0168424	8.121530	8.960481	.2207230	1.015148	.3831563
#2	.0157995	8.120922	8.985663	.2213627	1.018906	.3840137
#3	.0157659	8.101714	9.006663	.2231001	1.020254	.3817582

Elem	Li6707
Units	ppm
Avg	.0765044
Stddev	.0048979
%RSD	6.402075
#1	.0715122
#2	.0813021
#3	.0766989

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1751.412	15622.06	1454.809	1324.366	1514.282
Stddev	4.696	45.93	5.227	6.929	3.529
%RSD	.2681259	.2940155	.3593129	.5232308	.2330218
#1	1747.010	15674.27	1459.179	1321.917	1512.339
#2	1750.872	15604.04	1456.230	1318.993	1512.153
#3	1756.355	15587.87	1449.018	1332.187	1518.355

Reviewed By:Mohan
On:1/8/2025 7:28:17 AM
Inst Id :P5

Sample Name: P5121-09 Acquired: 01/06/2025 16:07:49 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v80) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHM50 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1289044	-.006268	4.050683	.0545139	.0337947	54.91257
Stddev	.0034215	.004444	.011473	.0134175	.0050268	.15268
%RSD	2.654309	70.89098	.2832292	24.61293	14.87464	.2780373
#1	.1302848	-.007906	4.056806	.0684282	.0314799	54.73640
#2	.1314200	-.001238	4.037448	.0534580	.0395619	54.99491
#3	.1250083	-.009660	4.057795	.0416556	.0303422	55.00640

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.588802	.0062636	.0220099	463.7792	.1882065	.1261744
Stddev	.006259	.0000890	.0002016	.4455	.0001324	.0003466
%RSD	.3939457	1.420955	.9158263	.0960587	.0703472	.2746753
#1	1.594477	.0062151	.0219378	464.2187	.1883503	.1263869
#2	1.589842	.0063663	.0218543	463.3279	.1880895	.1263619
#3	1.582089	.0062094	.0222376	463.7910	.1881798	.1257745

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5197109	177.8001	8.051900	197.7551	.2409056	-.012986
Stddev	.0055395	.5277	.002231	.1792	.0009629	.002191
%RSD	1.065887	.2967875	.0277125	.0906353	.3996934	16.87043
#1	.5233545	177.9586	8.054303	197.6515	.2405855	-.012992
#2	.5224420	178.2304	8.049893	197.6517	.2401436	-.010792
#3	.5133361	177.2113	8.051506	197.9621	.2419878	-.015173

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.461345	.1690504	2.779353	8.282962	F 15.22836	-.289370
Stddev	.004023	.0122105	.021428	.053382	.03649	.001616
%RSD	.2753001	7.222973	.7709792	.6444802	.2396178	.5586151
#1	1.462676	.1567576	2.759983	8.335847	15.23380	-.289625
#2	1.456826	.1692170	2.775705	8.229097	15.18946	-.290844
#3	1.464535	.1811768	2.802371	8.283942	15.26183	-.287642

Reviewed By:Mohan
On:1/8/2025 7:28:17 AM
Inst Id :P5

Sample Name: P5121-09 Acquired: 01/06/2025 16:07:49 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v80) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHM50 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0139539	8.804006	8.249439	.6387331	.9304135	.3982992
Stddev	.0013117	.025495	.031298	.0041555	.0061016	.0005047
%RSD	9.400048	.2895811	.3793896	.6505791	.6557955	.1267006
#1	.0133767	8.817151	8.250422	.6433066	.9326212	.3987714
#2	.0130298	8.774621	8.280234	.6351894	.9235153	.3983589
#3	.0154552	8.820245	8.217662	.6377032	.9351039	.3977674

Elem	Li6707
Units	ppm
Avg	.0729466
Stddev	.0057284
%RSD	7.852899
#1	.0739286
#2	.0667907
#3	.0781206

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1739.054	15404.70	1455.930	1298.318	1477.974
Stddev	3.023	33.32	1.365	12.382	4.056
%RSD	.1738513	.2162888	.0937326	.9537255	.2744056
#1	1736.699	15416.22	1456.500	1307.039	1476.802
#2	1742.463	15430.74	1454.372	1303.771	1482.486
#3	1737.999	15367.15	1456.917	1284.145	1474.633

Reviewed By:Mohan
On:1/8/2025 7:28:17 AM
Inst Id :P5

Sample Name: P5121-13 Acquired: 01/06/2025 16:11:35 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v80) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHM52 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2376049	-.006482	10.04290	.0550637	.0434774	64.27252
Stddev	.0012629	.006371	.01965	.0071027	.0036235	.43061
%RSD	.5314942	98.28627	.1956349	12.89907	8.334141	.6699814
#1	.2388421	-.001382	10.06360	.0628872	.0398708	63.77930
#2	.2376548	-.013623	10.02452	.0532835	.0434439	64.57373
#3	.2363178	-.004441	10.04058	.0490204	.0471175	64.46451

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.231318	.0071600	.0147047	446.7869	.1636631	.1242690
Stddev	.011512	.0001171	.0000754	1.6704	.0010608	.0010929
%RSD	.5159111	1.635181	.5125142	.3738701	.6481768	.8794299
#1	2.219919	.0071931	.0147917	445.0144	.1648487	.1255307
#2	2.242939	.0072569	.0146628	448.3319	.1628037	.1236174
#3	2.231097	.0070299	.0146596	447.0145	.1633369	.1236588

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8152388	172.7866	8.883062	106.8454	.1872919	-.012577
Stddev	.0145438	.6587	.059507	.3766	.0008304	.002484
%RSD	1.783993	.3811932	.6698943	.3524697	.4433900	19.75045
#1	.8155243	172.0262	8.822439	106.4105	.1882318	-.014884
#2	.8005545	173.1526	8.941386	107.0622	.1869864	-.012899
#3	.8296379	173.1810	8.885362	107.0634	.1866575	-.009948

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.567042	.1894578	3.515394	8.692117	F 17.09630	-.280771
Stddev	.009095	.0114214	.001843	.084520	.03067	.005256
%RSD	.5803835	6.028452	.0524220	.9723791	.1793742	1.871867
#1	1.577412	.1985044	3.513459	8.647908	17.12940	-.283868
#2	1.563291	.1766238	3.517128	8.789573	17.06886	-.283742
#3	1.560423	.1932451	3.515594	8.638870	17.09063	-.274703

Reviewed By:Mohan
On:1/8/2025 7:28:17 AM
Inst Id :P5

Sample Name: P5121-13 Acquired: 01/06/2025 16:11:35 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v80) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHM52 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0114698	5.029327	8.718218	.6009423	1.017921	.5429560
Stddev	.0013706	.013629	.061356	.0048112	.009776	.0055089
%RSD	11.94933	.2709939	.7037656	.8006109	.9603688	1.014617
#1	.0108486	5.039783	8.665610	.6051494	1.007515	.5366023
#2	.0105199	5.013913	8.785617	.5956966	1.019334	.5463995
#3	.0130410	5.034285	8.703425	.6019808	1.026913	.5458662

Elem	Li6707
Units	ppm
Avg	.0760963
Stddev	.0015214
%RSD	1.999333
#1	.0777576
#2	.0757603
#3	.0747710

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1819.925	16210.84	1507.961	1367.288	1509.222
Stddev	3.736	18.03	10.576	5.143	7.659
%RSD	.2052677	.1112137	.7013401	.3761735	.5074553
#1	1816.859	16213.93	1519.169	1371.076	1502.183
#2	1824.086	16227.12	1498.158	1369.356	1517.378
#3	1818.831	16191.47	1506.555	1361.433	1508.104

Reviewed By:Mohan
On:1/8/2025 7:28:17 AM
Inst Id :P5

Sample Name: P5121-14 Acquired: 01/06/2025 16:15:22 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v80) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHM53 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3110414	-.011577	2.325838	.0949662	.0540703	66.76755
Stddev	.0053015	.001948	.012873	.0056408	.0011943	.31125
%RSD	1.704435	16.82249	.5534627	5.939838	2.208791	.4661667
#1	.3144195	-.009637	2.332758	.1014751	.0542783	67.05044
#2	.3137736	-.011562	2.333771	.0919224	.0527857	66.81809
#3	.3049312	-.013532	2.310986	.0915010	.0551470	66.43413

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.547133	.0066948	.0180087	282.8853	.1364546	.1761464
Stddev	.004435	.0002812	.0001865	.1910	.0005271	.0013318
%RSD	.1741118	4.200453	1.035598	.0675081	.3863086	.7560824
#1	2.547034	.0068744	.0182196	282.9326	.1370627	.1775688
#2	2.551617	.0068391	.0178655	283.0483	.1361273	.1759415
#3	2.542748	.0063707	.0179410	282.6752	.1361738	.1749289

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4337892	236.6492	18.21791	74.12653	.2323407	-.015439
Stddev	.0068362	.1221	.04233	.12943	.0015437	.000879
%RSD	1.575935	.0516164	.2323574	.1746126	.6644194	5.691964
#1	.4318429	236.5371	18.23738	74.18698	.2330395	-.014430
#2	.4413876	236.6310	18.24700	74.21469	.2334115	-.016037
#3	.4281373	236.7794	18.16934	73.97793	.2305712	-.015850

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.032263	.1868847	3.419353	7.740960	F 17.69472	-.467312
Stddev	.031364	.0029256	.021905	.094514	.05983	.010927
%RSD	3.038396	1.565450	.6406207	1.220954	.3381093	2.338277
#1	1.067755	.1871247	3.444645	7.849881	17.72973	-.479516
#2	1.008275	.1838465	3.406971	7.680586	17.72879	-.463987
#3	1.020761	.1896829	3.406443	7.692412	17.62564	-.458435

Reviewed By:Mohan
On:1/8/2025 7:28:17 AM
Inst Id :P5

Sample Name: P5121-14 Acquired: 01/06/2025 16:15:22 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v80) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHM53 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0150964	4.454369	8.792412	.1443747	.7788810	.2022442
Stddev	.0001716	.010960	.145981	.0024787	.0107117	.0017338
%RSD	1.136546	.2460523	1.660303	1.716854	1.375266	.8572715
#1	.0150131	4.463834	8.943274	.1463043	.7907522	.2035638
#2	.0152937	4.456913	8.782104	.1452405	.7759528	.2028883
#3	.0149823	4.442361	8.651859	.1415792	.7699379	.2002806

Elem	Li6707
Units	ppm
Avg	.0726258
Stddev	.0028012
%RSD	3.857087
#1	.0758539
#2	.0711886
#3	.0708349

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1969.610	17539.18	1615.604	1483.836	1565.059
Stddev	6.236	60.74	19.096	2.573	5.276
%RSD	.3166038	.3463042	1.181972	.1733752	.3371275
#1	1963.687	17609.20	1596.521	1482.385	1560.114
#2	1969.024	17507.56	1615.578	1486.807	1564.450
#3	1976.117	17500.77	1634.713	1482.317	1570.614

Reviewed By:Mohan
On:1/8/2025 7:28:17 AM
Inst Id :P5

Sample Name: P5121-15 Acquired: 01/06/2025 16:19:09 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v80) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHM54 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4575724	-.039969	.5541942	.1632001	.0678382	64.37215
Stddev	.0025206	.008181	.0034398	.0029102	.0008818	.13896
%RSD	.5508642	20.46774	.6206767	1.783228	1.299851	.2158692
#1	.4600410	-.049188	.5513174	.1608478	.0669561	64.47204
#2	.4550029	-.033575	.5580043	.1622978	.0678388	64.43096
#3	.4576734	-.037145	.5532609	.1664545	.0687196	64.21346

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.078364	.0077298	.0110099	220.6027	.1032306	.2165199
Stddev	.005356	.0000807	.0001535	.8134	.0007782	.0004619
%RSD	.1739811	1.044401	1.394250	.3687161	.7538096	.2133441
#1	3.084212	.0076496	.0109771	221.5112	.1038220	.2170501
#2	3.077183	.0077286	.0108755	220.3548	.1035207	.2163048
#3	3.073698	.0078111	.0111772	219.9422	.1023491	.2162047

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3067706	334.6495	26.55046	50.06302	.2281930	-.024277
Stddev	.0022690	.5432	.05508	.17309	.0013390	.001004
%RSD	.7396488	.1623268	.2074391	.3457442	.5867629	4.137013
#1	.3088719	335.2741	26.61378	50.25869	.2286176	-.023337
#2	.3070754	334.3877	26.52392	49.92991	.2292681	-.025335
#3	.3043646	334.2868	26.51367	50.00046	.2266932	-.024159

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8847362	.3048771	2.542855	4.706201	F 11.88395	-.713055
Stddev	.0119379	.0044532	.001861	.163642	.04815	.004854
%RSD	1.349316	1.460643	.0731666	3.477160	.4051825	.6807539
#1	.8979936	.3078855	2.542604	4.654148	11.93955	-.718350
#2	.8813776	.3069843	2.541133	4.889538	11.85553	-.712000
#3	.8748373	.2997614	2.544829	4.574916	11.85678	-.708815

Reviewed By:Mohan
On:1/8/2025 7:28:17 AM
Inst Id :P5

Sample Name: P5121-15 Acquired: 01/06/2025 16:19:09 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v80) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHM54 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0162229	1.454840	7.943870	.1593232	.8520332	-.078226
Stddev	.0008704	.007525	.032445	.0019246	.0068592	.000510
%RSD	5.365159	.5172390	.4084296	1.207993	.8050391	.6519085
#1	.0167686	1.462255	7.981015	.1606568	.8599268	-.077682
#2	.0152191	1.447210	7.921068	.1601959	.8475230	-.078693
#3	.0166810	1.455056	7.929527	.1571168	.8486499	-.078302

Elem	Li6707
Units	ppm
Avg	.0626002
Stddev	.0026885
%RSD	4.294717
#1	.0652528
#2	.0598771
#3	.0626709

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2091.783	18567.12	1706.892	1571.998	1610.958
Stddev	5.713	41.51	8.820	1.388	3.630
%RSD	.2730929	.2235646	.5167552	.0882996	.2253107
#1	2096.735	18599.49	1697.168	1570.401	1608.087
#2	2093.081	18581.54	1714.377	1572.671	1615.038
#3	2085.533	18520.32	1709.131	1572.921	1609.749

Reviewed By:Mohan
On:1/8/2025 7:28:17 AM
Inst Id :P5

Sample Name: P5121-16 Acquired: 01/06/2025 16:22:56 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v80) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHM55 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0801381	-.000764	.1620677	.0288733	.0288497	56.28281	.4531312
Stddev	.0020882	.002980	.0018155	.0096898	.0059166	.16657	.0049648
%RSD	2.605819	390.2462	1.120206	33.55985	20.50829	.2959578	1.095655
#1	.0823091	.002406	.1633358	.0189351	.0349893	56.09410	.4517537
#2	.0799614	-.001188	.1599880	.0293907	.0283751	56.34492	.4586393
#3	.0781438	-.003509	.1628794	.0382941	.0231847	56.40940	.4490007

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0050449	.0013792	511.4682	.0937436	.1278993	.2167353	156.9449
Stddev	.0001240	.0001574	1.5529	.0009340	.0008366	.0030893	.7278
%RSD	2.457851	11.41377	.3036068	.9963593	.6540955	1.425399	.4637222
#1	.0051406	.0014261	509.6765	.0933328	.1269416	.2161911	156.1184
#2	.0049048	.0012037	512.3040	.0948126	.1282691	.2139542	157.2262
#3	.0050892	.0015079	512.4242	.0930853	.1284873	.2200606	157.4901

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.168248	155.3848	.1749286	-.012454	.9535334	.1599791	.3592970
Stddev	.018668	.8183	.0010173	.001094	.0023083	.0034867	.0014481
%RSD	.3612090	.5266100	.5815303	8.786589	.2420775	2.179504	.4030485
#1	5.148137	154.4609	.1750664	-.013691	.9544246	.1612605	.3606465
#2	5.171584	155.6748	.1738495	-.011611	.9509124	.1626438	.3594772
#3	5.185023	156.0184	.1758700	-.012061	.9552633	.1560329	.3577671

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.640095	7.658702	-.304042	.0095744	.8243099	7.916125	.0281012
Stddev	.065452	.036964	.004735	.0013346	.0135708	.054447	.0005104
%RSD	.9857026	.4826391	1.557268	13.93931	1.646325	.6878018	1.816123
#1	6.687151	7.619627	-.299535	.0091415	.8087754	7.869247	.0279427
#2	6.667784	7.663367	-.303615	.0085100	.8338593	7.903282	.0286721
#3	6.565350	7.693112	-.308975	.0110718	.8302951	7.975845	.0276890

Reviewed By:Mohan
On:1/8/2025 7:28:17 AM
Inst Id :P5

Sample Name: P5121-16 Acquired: 01/06/2025 16:22:56 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v80) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHM55 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	1.023981	.4744099	.1026907
Stddev	.011341	.0023166	.0036960
%RSD	1.107582	.4883133	3.599184
#1	1.011243	.4718946	.1026665
#2	1.027721	.4748793	.0990068
#3	1.032981	.4764559	.1063987

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1760.733	15702.31	1471.274	1329.275	1473.280
Stddev	5.764	72.86	8.958	5.586	3.646
%RSD	.3273513	.4639831	.6088931	.4201943	.2475039
#1	1754.286	15622.53	1477.654	1322.871	1469.402
#2	1765.388	15719.07	1475.135	1331.811	1476.640
#3	1762.525	15765.32	1461.032	1333.142	1473.796

Reviewed By:Mohan
On:1/8/2025 7:28:17 AM
Inst Id :P5

Sample Name: P5121-17 Acquired: 01/06/2025 16:26:45 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v80) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHM56 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2388095	-.005174	8.981028	.0542349	.0444597	40.71833
Stddev	.0060671	.006696	.072999	.0024003	.0020484	.14062
%RSD	2.540546	129.4228	.8128130	4.425724	4.607300	.3453367
#1	.2332054	-.004949	9.022146	.0552305	.0454356	40.74987
#2	.2379709	.001407	8.896744	.0514970	.0458377	40.56462
#3	.2452523	-.011979	9.024193	.0559771	.0421059	40.84050

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.378823	.0059823	.0062923	221.8326	.1626500	.0943115
Stddev	.007421	.0002298	.0000932	.7549	.0006951	.0005215
%RSD	.5381801	3.841402	1.480601	.3403020	.4273912	.5529733
#1	1.372986	.0060992	.0062257	221.6179	.1626087	.0945041
#2	1.376310	.0061302	.0063987	221.2084	.1633648	.0937211
#3	1.387174	.0057175	.0062524	222.6716	.1619764	.0947093

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5391477	156.1649	4.608859	45.21854	.2165992	-.011451
Stddev	.0001826	.8126	.033624	.12814	.0028150	.002296
%RSD	.0338763	.5203189	.7295521	.2833879	1.299616	20.05492
#1	.5392687	156.2883	4.609541	45.34419	.2165084	-.012636
#2	.5392367	155.2977	4.574899	45.08804	.2138308	-.008804
#3	.5389376	156.9087	4.642137	45.22339	.2194585	-.012913

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7847369	.1563968	2.572200	4.827508	F 10.98443	-.253677
Stddev	.0103353	.0096820	.006248	.389776	.07711	.002237
%RSD	1.317034	6.190656	.2429164	8.074066	.7020133	.8816849
#1	.7953116	.1534364	2.576890	4.562733	11.02339	-.255024
#2	.7746590	.1485407	2.574601	4.644703	10.89561	-.254912
#3	.7842401	.1672134	2.565107	5.275088	11.03428	-.251095

Reviewed By:Mohan
On:1/8/2025 7:28:17 AM
Inst Id :P5

Sample Name: P5121-17 Acquired: 01/06/2025 16:26:45 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v80) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHM56 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0157507	6.966849	7.727513	.5517845	.9692961	.3661516
Stddev	.0009066	.057618	.038757	.0076410	.0045651	.0000985
%RSD	5.756201	.8270304	.5015464	1.384786	.4709703	.0268986
#1	.0167832	6.978220	7.759228	.5540147	.9662261	.3660607
#2	.0150846	6.904393	7.684311	.5432765	.9671201	.3661377
#3	.0153843	7.017934	7.739000	.5580623	.9745421	.3662562

Elem	Li6707
Units	ppm
Avg	.0464801
Stddev	.0016588
%RSD	3.568914
#1	.0450460
#2	.0460976
#3	.0482968

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1737.317	15419.58	1424.688	1304.354	1630.526
Stddev	14.389	83.25	6.781	.796	16.275
%RSD	.8282224	.5399241	.4759340	.0610128	.9981576
#1	1726.367	15467.66	1423.106	1305.162	1618.366
#2	1753.613	15323.45	1432.119	1303.571	1649.015
#3	1731.969	15467.64	1418.837	1304.328	1624.197

Reviewed By:Mohan
On:1/8/2025 7:28:17 AM
Inst Id :P5

Sample Name: CCV121 Acquired: 01/06/2025 16:30:32 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v80) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV121 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.020814	4.887169	25.01939	5.022177	4.997926	417.2971	10.40921
Stddev	.007332	.016547	.06495	.020969	.009297	.5597	.01163
%RSD	.1460375	.3385879	.2596076	.4175227	.1860235	.1341288	.1117751
#1	5.025844	4.868387	24.95392	5.002123	4.987844	416.6751	10.40007
#2	5.024197	4.899602	25.08381	5.043954	5.006162	417.7601	10.40524
#3	5.012401	4.893516	25.02042	5.020454	4.999772	417.4560	10.42231

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5209869	2.513667	421.1736	16.12783	2.540571	15.65491	425.0739
Stddev	.0037658	.008372	.3093	.01074	.011258	.03638	.2675
%RSD	.7228226	.3330715	.0734362	.0666150	.4431254	.2323935	.0629369
#1	.5249592	2.505372	421.4235	16.13803	2.529785	15.62342	425.2034
#2	.5174688	2.522115	421.2698	16.11661	2.552248	15.64657	425.2520
#3	.5205328	2.513513	420.8277	16.12884	2.539680	15.69473	424.7662

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	15.53918	421.2215	2.551760	1.293738	416.0998	2.581850	15.20008
Stddev	.03970	.3884	.005183	.003280	1.0202	.024456	.04316
%RSD	.2554864	.0921981	.2031016	.2535102	.2451848	.9472258	.2839456
#1	15.52500	421.5174	2.548652	1.297323	416.8360	2.553788	15.24812
#2	15.58402	420.7817	2.557743	1.290888	414.9352	2.598617	15.16457
#3	15.50852	421.3654	2.548886	1.293004	416.5281	2.593146	15.18755

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	158.4004	5.026787	4.568765	4.959580	5.066354	5.117417	5.076541
Stddev	.8077	.013691	.021205	.011926	.010854	.037224	.016313
%RSD	.5098964	.2723604	.4641276	.2404705	.2142416	.7274053	.3213355
#1	158.7008	5.012292	4.581256	4.955451	5.057320	5.149247	5.057826
#2	157.4856	5.039499	4.544281	4.973023	5.078395	5.076486	5.084051
#3	159.0149	5.028570	4.580758	4.950267	5.063346	5.126516	5.087746

Reviewed By:Mohan
On:1/8/2025 7:28:17 AM
Inst Id :P5

Sample Name: CCV121 Acquired: 01/06/2025 16:30:32 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v80) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV121 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	5.174723	4.937123	5.172701
Stddev	.003755	.006778	.020948
%RSD	.0725638	.1372765	.4049683
#1	5.172759	4.932371	5.163463
#2	5.179053	4.944884	5.157960
#3	5.172357	4.934115	5.196680

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1283.754	12456.49	1192.662	962.2932	1373.968
Stddev	3.002	43.94	2.367	2.0898	6.175
%RSD	.2338655	.3527645	.1984851	.2171657	.4494074
#1	1286.577	12489.66	1190.243	964.0472	1380.959
#2	1280.600	12406.66	1194.973	959.9810	1369.261
#3	1284.086	12473.17	1192.769	962.8513	1371.683

Reviewed By:Mohan
On:1/8/2025 7:28:17 AM
Inst Id :P5

Sample Name: CCB121 Acquired: 01/06/2025 16:44:57 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v80) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB121 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.006076	.0013526	-.000956	-.002399	.0040772	.0325828	-.000976
Stddev	.002672	.0020764	.002437	.005918	.0034160	.0545326	.004348
%RSD	43.97708	153.5041	255.0393	246.6388	83.78283	167.3659	445.6705
#1	-.002996	.0000611	.001805	-.003174	.0031439	.0365716	-.003873
#2	-.007456	.0037478	-.001862	-.007892	.0012249	.0850115	-.003078
#3	-.007775	.0002491	-.002810	.003867	.0078629	-.023835	.004024

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000184	-.000068	-.029858	.0000346	-.000563	-.021578	-.042669
Stddev	.000127	.000037	.034330	.0012669	.000356	.004943	.054796
%RSD	69.17369	54.89810	114.9763	3659.865	63.18939	22.90793	128.4200
#1	-.000120	-.000027	-.058173	.0006092	-.000520	-.024340	-.101521
#2	-.000102	-.000075	-.039727	.0009124	-.000230	-.024524	-.033367
#3	-.000331	-.000100	.008325	-.001418	-.000937	-.015871	.006880

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0020648	-.087035	.0008194	.0005602	-.173623	-.011556	.0018063
Stddev	.0021643	.010035	.0010620	.0016955	.029921	.013279	.0005778
%RSD	104.8167	11.52941	129.6183	302.6603	17.23334	114.9040	31.99035
#1	.0039477	-.089739	.0012261	.0025115	-.183149	-.022394	.0024508
#2	.0025465	-.095441	-.000386	-.000278	-.197620	.003256	.0013345
#3	-.000300	-.075926	.001618	-.000553	-.140098	-.015531	.0016336

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0720381	.0031312	.0016734	.0000273	.0014294	-.001267	-.000221
Stddev	.1427159	.0028860	.0016565	.0004292	.0046771	.000711	.000723
%RSD	198.1115	92.16655	98.98669	1573.860	327.2163	56.12876	326.7082
#1	.2366169	.0004773	.0034986	-.000018	-.000996	-.001388	-.000336
#2	-.017546	.0062035	.0002653	.000477	-.001536	-.001909	.000552
#3	-.002957	.0027129	.0012564	-.000378	.006821	-.000503	-.000880

Reviewed By:Mohan
On:1/8/2025 7:28:17 AM
Inst Id :P5

Sample Name: CCB121 Acquired: 01/06/2025 16:44:57 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v80) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB121 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.0080009	.0003072	-.001118
Stddev	.0013178	.0005469	.003720
%RSD	16.47086	178.0283	332.6531
#1	.0094457	.0002127	.000744
#2	.0076922	-.000186	.001303
#3	.0068649	.000895	-.005402

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1588.813	13981.02	1278.079	1194.785	1739.292
Stddev	3.692	27.55	9.342	8.898	2.528
%RSD	.2323456	.1970867	.7309750	.7447320	.1453427
#1	1592.971	14008.11	1273.023	1205.058	1742.157
#2	1585.922	13953.02	1288.860	1189.824	1738.340
#3	1587.545	13981.93	1272.355	1189.474	1737.378

Reviewed By:Mohan
On:1/8/2025 7:28:17 AM
Inst Id :P5

Sample Name: P5121-18 Acquired: 01/06/2025 16:48:58 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v80) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHM57 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2735172	-.006207	2.667855	.0412177	.0403597	36.27440	1.414993
Stddev	.0009001	.003720	.005411	.0033840	.0043455	.15863	.014199
%RSD	.3290709	59.92328	.2028097	8.209998	10.76700	.4373125	1.003485
#1	.2745500	-.004330	2.662050	.0402775	.0451067	36.32923	1.430493
#2	.2728999	-.010492	2.668757	.0449724	.0393944	36.39834	1.411872
#3	.2731018	-.003801	2.672759	.0384033	.0365780	36.09563	1.402614

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0061540	.0045722	121.6591	.1238650	.0803509	.6378958	130.8818
Stddev	.0002225	.0001445	.7692	.0036071	.0002725	.0045035	.4259
%RSD	3.614668	3.160342	.6322761	2.912142	.3391513	.7059896	.3254298
#1	.0059095	.0044093	122.5336	.1226872	.0800813	.6389684	131.3711
#2	.0063444	.0046224	121.3566	.1279138	.0806262	.6329529	130.5937
#3	.0062081	.0046849	121.0871	.1209939	.0803451	.6417662	130.6806

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.328953	28.42170	.1716876	-.010223	2.275105	.1232358	2.268605
Stddev	.016155	.30001	.0010319	.001934	.032543	.0164550	.061934
%RSD	.4852866	1.055584	.6010117	18.91740	1.430414	13.35246	2.730062
#1	3.345623	28.69528	.1728782	-.011294	2.310770	.1383169	2.231902
#2	3.327868	28.46896	.1711323	-.011385	2.267522	.1056859	2.340112
#3	3.313368	28.10086	.1710523	-.007991	2.247022	.1257045	2.233801

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.163602	8.751144	1.464093	.0158611	4.890463	6.424200	.1526797
Stddev	.208747	.016217	.008691	.0004012	.007209	.067739	.0021814
%RSD	6.598384	.1853107	.5936074	2.529499	.1474118	1.054433	1.428735
#1	2.923684	8.742959	1.472847	.0159297	4.898194	6.477302	.1512601
#2	3.303679	8.769822	1.463965	.0154300	4.889270	6.447386	.1551914
#3	3.263443	8.740651	1.455467	.0162236	4.883924	6.347913	.1515875

Reviewed By:Mohan
On:1/8/2025 7:28:17 AM
Inst Id :P5

Sample Name: P5121-18 Acquired: 01/06/2025 16:48:58 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v80) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHM57 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	1.001391	.3019010	.0439866
Stddev	.011765	.0035674	.0030320
%RSD	1.174889	1.181640	6.893002
#1	1.014545	.3057818	.0473606
#2	.991875	.3011568	.0414901
#3	.997752	.2987644	.0431092

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1728.262	15160.55	1412.376	1279.767	1675.970
Stddev	5.146	325.68	12.988	26.063	3.499
%RSD	.2977325	2.148185	.9195662	2.036523	.2087974
#1	1730.133	15326.61	1397.677	1296.919	1679.610
#2	1732.210	14785.32	1417.150	1249.776	1675.669
#3	1722.443	15369.73	1422.301	1292.607	1672.631

Reviewed By:Mohan
On:1/8/2025 7:28:17 AM
Inst Id :P5

Sample Name: P5121-19 Acquired: 01/06/2025 16:52:46 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v80) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHM58 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3635429	-.017265	3.613847	.0590601	.0476512	45.44800
Stddev	.0029817	.003241	.005544	.0029746	.0023425	.23884
%RSD	.8201651	18.77211	.1534199	5.036536	4.915911	.5255189
#1	.3612577	-.014862	3.610577	.0588465	.0495317	45.39981
#2	.3624554	-.020951	3.610716	.0621357	.0483946	45.23694
#3	.3669157	-.015982	3.620249	.0561980	.0450272	45.70726

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.872644	.0077292	.0061344	206.7861	.1574801	.1095879
Stddev	.004438	.0002573	.0000796	.6433	.0006624	.0010848
%RSD	.2369767	3.328697	1.298419	.3110792	.4206551	.9898555
#1	1.876172	.0080235	.0062259	206.9010	.1575557	.1083654
#2	1.867661	.0075472	.0060970	206.0932	.1567832	.1099627
#3	1.874098	.0076167	.0060803	207.3642	.1581016	.1104355

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6357013	179.8711	4.561167	47.24097	.2150653	-.016548
Stddev	.0141634	1.0332	.008367	.39321	.0014408	.000261
%RSD	2.227997	.5744057	.1834425	.8323422	.6699541	1.577068
#1	.6274478	179.1292	4.556774	46.87950	.2135771	-.016388
#2	.6276006	179.4329	4.555911	47.18377	.2164535	-.016850
#3	.6520556	181.0511	4.570815	47.65965	.2151652	-.016407

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.489088	.1984872	2.404668	3.747045	F 11.87028	-.318729
Stddev	.015019	.0134131	.014304	.153021	.00290	.004944
%RSD	1.008618	6.757676	.5948331	4.083783	.0244132	1.551153
#1	1.495826	.2139234	2.399818	3.579433	11.86699	-.324148
#2	1.471879	.1896720	2.420766	3.879278	11.87142	-.314464
#3	1.499557	.1918661	2.393419	3.782423	11.87244	-.317575

Reviewed By:Mohan
On:1/8/2025 7:28:17 AM
Inst Id :P5

Sample Name: P5121-19 Acquired: 01/06/2025 16:52:46 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v80) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHM58 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0154705	6.353016	7.602646	.2664024	1.248542	.4428205
Stddev	.0008459	.014873	.051320	.0011712	.011595	.0019069
%RSD	5.467782	.2341044	.6750302	.4396211	.9287217	.4306365
#1	.0157336	6.336050	7.647470	.2666996	1.256365	.4421215
#2	.0145243	6.363802	7.546665	.2673964	1.235220	.4413617
#3	.0161535	6.359197	7.613804	.2651113	1.254041	.4449783

Elem	Li6707
Units	ppm
Avg	.0621349
Stddev	.0028068
%RSD	4.517237
#1	.0651717
#2	.0596359
#3	.0615972

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1764.980	15708.02	1463.867	1337.095	1632.222
Stddev	2.671	62.98	12.155	3.675	1.178
%RSD	.1513188	.4009192	.8303291	.2748322	.0721598
#1	1761.931	15694.71	1453.279	1336.481	1632.448
#2	1766.105	15776.59	1477.140	1333.767	1633.270
#3	1766.904	15652.76	1461.183	1341.039	1630.948

Reviewed By:Mohan
On:1/8/2025 7:28:17 AM
Inst Id :P5

Sample Name: P5121-20 Acquired: 01/06/2025 16:56:33 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v80) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHM59 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0832867	-.007046	.9848285	.0338201	.0130510	25.57243	1.030725
Stddev	.0042010	.002805	.0032693	.0015170	.0024815	.14364	.003315
%RSD	5.044085	39.81082	.3319693	4.485565	19.01427	.5616874	.3216142
#1	.0802646	-.003828	.9816798	.0354602	.0101884	25.43011	1.029232
#2	.0880839	-.008334	.9882064	.0335327	.0145925	25.56982	1.028418
#3	.0815116	-.008976	.9845993	.0324673	.0143721	25.71735	1.034523

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0039537	.0017676	88.64959	.0510765	.0680230	.2614237	113.0655
Stddev	.0003247	.0000441	.33426	.0002744	.0005257	.0044693	.3365
%RSD	8.211590	2.495253	.3770524	.5372500	.7728081	1.709600	.2976516
#1	.0041100	.0018002	88.39076	.0513139	.0679291	.2563230	112.6894
#2	.0041707	.0017174	88.53105	.0511396	.0685893	.2646535	113.3382
#3	.0035805	.0017851	89.02696	.0507761	.0675506	.2632946	113.1689

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.392566	24.93548	.0917694	-.008282	2.462309	.0899147	.5711644
Stddev	.019111	.17895	.0002276	.002458	.008068	.0114053	.0028666
%RSD	.7987571	.7176527	.2479666	29.67419	.3276700	12.68454	.5018839
#1	2.377535	24.73485	.0915092	-.005601	2.455961	.0767457	.5685893
#2	2.386090	25.07862	.0918678	-.008817	2.471388	.0966111	.5706509
#3	2.414074	24.99298	.0919312	-.010427	2.459576	.0963873	.5742530

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.697846	4.979335	-.231690	.0118459	3.125334	4.428627	1.573828
Stddev	.209713	.007253	.005069	.0014274	.005756	.006716	.001468
%RSD	12.35169	.1456682	2.187751	12.04987	.1841813	.1516450	.0932665
#1	1.551487	4.985937	-.225981	.0103967	3.124216	4.427353	1.572904
#2	1.938099	4.980497	-.233427	.0132505	3.131567	4.422640	1.573059
#3	1.603951	4.971571	-.235662	.0118906	3.120219	4.435889	1.575520

Reviewed By:Mohan
On:1/8/2025 7:28:17 AM
Inst Id :P5

Sample Name: P5121-20 Acquired: 01/06/2025 16:56:33 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v80) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHM59 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.6612585	.3223121	.0251929
Stddev	.0075347	.0021564	.0063317
%RSD	1.139448	.6690579	25.13299
#1	.6570731	.3200866	.0322911
#2	.6567457	.3224575	.0231610
#3	.6699568	.3243922	.0201265

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1664.289	14768.29	1349.428	1255.082	1691.741
Stddev	5.095	73.75	4.226	7.664	5.581
%RSD	.3061442	.4993682	.3131401	.6106666	.3298923
#1	1665.375	14852.33	1354.140	1260.946	1696.341
#2	1668.754	14714.37	1345.976	1257.891	1693.352
#3	1658.739	14738.18	1348.166	1246.409	1685.533

Reviewed By:Mohan
On:1/8/2025 7:28:17 AM
Inst Id :P5

Sample Name: P5121-21 Acquired: 01/06/2025 17:00:21 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v80) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHM60 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0783824	.0042950	2.324601	.0327661	.0215729	48.13612	1.280983
Stddev	.0015620	.0041865	.008189	.0097206	.0008862	.27547	.006833
%RSD	1.992860	97.47344	.3522798	29.66673	4.107691	.5722645	.5334430
#1	.0770028	.0087197	2.315247	.0375895	.0207350	48.02234	1.273297
#2	.0800785	.0037688	2.330478	.0215771	.0214832	47.93577	1.286373
#3	.0780660	.0003965	2.328077	.0391317	.0225005	48.45025	1.283277

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0043698	.0034294	85.50756	.1115924	.0816907	.3593433	91.37690
Stddev	.0000777	.0001930	.35881	.0023601	.0007194	.0041155	.23137
%RSD	1.778864	5.626199	.4196245	2.114937	.8806362	1.145294	.2532031
#1	.0044276	.0032163	85.14096	.1091965	.0822393	.3625697	91.20261
#2	.0042814	.0034797	85.52367	.1116657	.0808762	.3607518	91.28869
#3	.0044003	.0035923	85.85804	.1139150	.0819566	.3547084	91.63940

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.567476	19.33885	.1196921	-.007903	1.360260	.1135892	.6947297
Stddev	.027859	.17893	.0005504	.001357	.033316	.0044401	.0080167
%RSD	.4242014	.9252480	.4598653	17.17171	2.449262	3.908945	1.153927
#1	6.563015	19.28547	.1197830	-.007327	1.398719	.1155712	.6909662
#2	6.542116	19.19268	.1201915	-.009453	1.340240	.1085032	.6892873
#3	6.597296	19.53840	.1191019	-.006929	1.341820	.1166931	.7039357

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.999045	9.046218	-.160446	.0119373	6.575307	8.524332	.3129679
Stddev	.079314	.034147	.005778	.0004106	.024032	.100381	.0013307
%RSD	1.983333	.3774778	3.601117	3.439430	.3654927	1.177579	.4251928
#1	3.975417	9.007542	-.167114	.0118331	6.548844	8.618950	.3118545
#2	3.934229	9.072202	-.156918	.0115890	6.581303	8.419041	.3126075
#3	4.087488	9.058909	-.157306	.0123900	6.595773	8.535006	.3144417

Reviewed By:Mohan
On:1/8/2025 7:28:17 AM
Inst Id :P5

Sample Name: P5121-21 Acquired: 01/06/2025 17:00:21 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v80) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHM60 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.5689918	.2641377	.0469010
Stddev	.0043435	.0014587	.0050477
%RSD	.7633714	.5522567	10.76254
#1	.5679473	.2632652	.0428486
#2	.5652657	.2633262	.0525554
#3	.5737623	.2658218	.0452992

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1946.375	17069.19	1575.841	1454.363	1685.767
Stddev	2.589	133.72	17.025	13.386	3.653
%RSD	.1329951	.7833966	1.080359	.9203952	.2166751
#1	1945.545	17195.79	1561.113	1461.306	1688.873
#2	1949.277	17082.44	1594.481	1462.852	1686.685
#3	1944.304	16929.34	1571.929	1438.933	1681.743

Reviewed By:Mohan
On:1/8/2025 7:28:17 AM
Inst Id :P5

Sample Name: P5121-22 Acquired: 01/06/2025 17:04:09 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v80) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHM61 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0949245	.0015110	1.717477	.0475013	.0296903	68.27420
Stddev	.0033104	.0015579	.000846	.0054997	.0028846	.20110
%RSD	3.487409	103.1097	.0492534	11.57807	9.715807	.2945444
#1	.0978787	.0029621	1.717376	.0413756	.0268946	68.06685
#2	.0955483	.0017061	1.718368	.0491139	.0295199	68.28737
#3	.0913466	-.000135	1.716685	.0520146	.0326564	68.46840

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.947412	.0051665	.0046767	192.3971	.1582037	.1105424
Stddev	.001025	.0002268	.0000669	.3962	.0003599	.0003753
%RSD	.0526534	4.388966	1.430398	.2059317	.2274702	.3395265
#1	1.946245	.0049048	.0047443	192.0274	.1580014	.1109742
#2	1.948165	.0053058	.0046105	192.3486	.1586192	.1103587
#3	1.947827	.0052888	.0046753	192.8154	.1579905	.1102944

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3054762	138.7931	8.045490	46.62179	.1547743	-.012386
Stddev	.0025102	.4496	.021708	.22835	.0017227	.000966
%RSD	.8217279	.3239375	.2698171	.4897930	1.113052	7.798408
#1	.3030047	138.5504	8.022975	46.41870	.1531740	-.011315
#2	.3054006	138.5171	8.047207	46.57769	.1565977	-.012652
#3	.3080233	139.3119	8.066289	46.86897	.1545511	-.013190

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.017158	.1319524	.7264054	5.483517	F 14.90349	-.255488
Stddev	.012664	.0149151	.0028466	.059990	.00543	.002951
%RSD	1.245013	11.30338	.3918708	1.094010	.0364146	1.155170
#1	1.030955	.1346316	.7296742	5.420223	14.90374	-.252252
#2	1.006064	.1453463	.7250694	5.539540	14.90878	-.256180
#3	1.014454	.1158793	.7244726	5.490788	14.89794	-.258032

Reviewed By:Mohan
On:1/8/2025 7:28:17 AM
Inst Id :P5

Sample Name: P5121-22 Acquired: 01/06/2025 17:04:09 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v80) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHM61 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0104907	6.537592	7.933369	.2568379	.5866255	.1943859
Stddev	.0009745	.006516	.032316	.0017557	.0021332	.0009404
%RSD	9.289100	.0996714	.4073444	.6836035	.3636391	.4837574
#1	.0105782	6.531898	7.908786	.2579899	.5875115	.1933007
#2	.0114186	6.536179	7.921348	.2548171	.5841921	.1948974
#3	.0094755	6.544698	7.969973	.2577066	.5881729	.1949596

Elem	Li6707
Units	ppm
Avg	.0787791
Stddev	.0016828
%RSD	2.136093
#1	.0769716
#2	.0790652
#3	.0803005

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2190.339	19451.90	1814.466	1662.088	1614.992
Stddev	1.075	29.35	2.083	8.728	3.203
%RSD	.0490689	.1509003	.1147885	.5251279	.1983133
#1	2189.329	19431.08	1813.036	1652.067	1611.589
#2	2191.468	19439.16	1816.856	1666.167	1615.440
#3	2190.220	19485.47	1813.507	1668.029	1617.947

Reviewed By:Mohan
On:1/8/2025 7:28:17 AM
Inst Id :P5

Sample Name: P5122-01 Acquired: 01/06/2025 17:07:56 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v80) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHM62 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0623433	.0186184	.1497898	.0490580	.0335539	40.73093
Stddev	.0003292	.0032292	.0013905	.0114673	.0012207	.34943
%RSD	.5279980	17.34438	.9283332	23.37501	3.638139	.8578948
#1	.0620071	.0220926	.1486074	.0416659	.0323372	40.80970
#2	.0623578	.0157084	.1513218	.0622681	.0347787	40.34884
#3	.0626650	.0180543	.1494400	.0432401	.0335458	41.03425

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8263900	.0028736	.0025011	651.1854	.0838903	.1108580
Stddev	.0105328	.0000748	.0001022	6.3000	.0008765	.0003436
%RSD	1.274559	2.601142	4.087399	.9674730	1.044855	.3099296
#1	.8313294	.0028008	.0026145	652.9586	.0839429	.1112505
#2	.8142952	.0029502	.0024727	644.1887	.0829886	.1107116
#3	.8335453	.0028697	.0024160	656.4088	.0847393	.1106118

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1206553	165.0021	22.62479	145.7097	.1418637	-.010941
Stddev	.0050172	1.4252	.19663	1.2097	.0002726	.000806
%RSD	4.158282	.8637304	.8690986	.8302134	.1921458	7.366740
#1	.1148949	165.2229	22.64956	145.3574	.1415588	-.010721
#2	.1240695	163.4793	22.41694	144.7153	.1419483	-.010268
#3	.1230017	166.3039	22.80786	147.0565	.1420839	-.011834

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.110402	.1219041	.2246519	5.236552	F 11.94170	-.314151
Stddev	.024905	.0037909	.0026090	.124704	.03244	.006100
%RSD	2.242891	3.109732	1.161328	2.381418	.2716313	1.941738
#1	1.108174	.1200039	.2271962	5.190105	11.96898	-.321000
#2	1.086686	.1194391	.2247767	5.141736	11.95029	-.309301
#3	1.136346	.1262693	.2219828	5.377814	11.90584	-.312154

Reviewed By:Mohan
On:1/8/2025 7:28:17 AM
Inst Id :P5

Sample Name: P5122-01 Acquired: 01/06/2025 17:07:56 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v80) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHM62 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0091498	1.489740	6.382404	.0277382	1.115926	.4303051
Stddev	.0011511	.003090	.065695	.0037859	.007560	.0037081
%RSD	12.58099	.2074302	1.029309	13.64873	.6774662	.8617268
#1	.0103273	1.491613	6.428575	.0249763	1.121017	.4300819
#2	.0080269	1.486174	6.307194	.0261845	1.107239	.4267136
#3	.0090953	1.491434	6.411444	.0320538	1.119522	.4341196

Elem	Li6707
Units	ppm
Avg	.0572058
Stddev	.0021086
%RSD	3.685938
#1	.0588316
#2	.0548233
#3	.0579625

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1812.027	16125.67	1522.209	1360.450	1479.970
Stddev	4.389	24.41	8.925	10.276	2.440
%RSD	.2421974	.1513696	.5863086	.7553683	.1648492
#1	1807.929	16144.72	1514.904	1352.938	1478.687
#2	1811.495	16098.16	1532.157	1356.250	1478.439
#3	1816.658	16134.14	1519.567	1372.161	1482.783

Reviewed By:Mohan
On:1/8/2025 7:28:17 AM
Inst Id :P5

Sample Name: P5122-02 Acquired: 01/06/2025 17:11:43 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v80) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHM63 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2000045	-.060289	11.39407	.1486106	.1244309	49.29572
Stddev	.0039448	.003698	.00647	.0112960	.0039694	.42485
%RSD	1.972367	6.133157	.0568198	7.601094	3.190070	.8618430
#1	.1957906	-.064522	11.38833	.1367068	.1214067	49.03139
#2	.2036094	-.058656	11.39279	.1591804	.1229603	49.06997
#3	.2006136	-.057689	11.40109	.1499446	.1289258	49.78579

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.085168	.0086260	.0109491	132.1030	.2376212	.1218969
Stddev	.019970	.0001796	.0001597	.8321	.0033724	.0005898
%RSD	.6472758	2.082197	1.458311	.6298638	1.419212	.4838461
#1	3.062296	.0086617	.0110425	131.2732	.2411568	.1222231
#2	3.094064	.0087852	.0110400	132.0984	.2372668	.1222515
#3	3.099143	.0084313	.0107647	132.9373	.2344401	.1212161

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7395818	323.7050	4.299631	34.32527	.3691118	-.029327
Stddev	.0026821	3.5205	.038410	.32744	.0016804	.001722
%RSD	.3626487	1.087561	.8933366	.9539319	.4552614	5.870147
#1	.7378175	320.9691	4.283751	34.07035	.3671943	-.028517
#2	.7382595	322.4690	4.271706	34.21091	.3703280	-.031304
#3	.7426682	327.6768	4.343434	34.69455	.3698131	-.028160

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.030957	.2212473	5.065912	7.765167	F 18.02193	-.640951
Stddev	.014270	.0070215	.025334	.159247	.01753	.006789
%RSD	1.384196	3.173595	.5000925	2.050789	.0972862	1.059192
#1	1.042446	.2161240	5.067995	7.922560	18.04100	-.647414
#2	1.035442	.2183670	5.090141	7.604129	18.01831	-.641560
#3	1.014983	.2292509	5.039601	7.768813	18.00650	-.633877

Reviewed By:Mohan
On:1/8/2025 7:28:17 AM
Inst Id :P5

Sample Name: P5122-02 Acquired: 01/06/2025 17:11:43 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v80) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHM63 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0283096	6.336318	8.059921	.3869798	1.236668	.1880954
Stddev	.0011180	.005542	.025225	.0020655	.014543	.0019589
%RSD	3.949051	.0874682	.3129721	.5337568	1.175943	1.041460
#1	.0288351	6.341811	8.085802	.3854558	1.221400	.1868988
#2	.0290681	6.330727	8.058556	.3861531	1.238247	.1870313
#3	.0270258	6.336415	8.035407	.3893307	1.250356	.1903561

Elem	Li6707
Units	ppm
Avg	.0670675
Stddev	.0013562
%RSD	2.022085
#1	.0682242
#2	.0655750
#3	.0674034

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1767.604	15734.07	1467.978	1331.657	1640.749
Stddev	4.082	25.30	3.255	8.150	4.813
%RSD	.2309311	.1607764	.2217571	.6120313	.2933569
#1	1763.863	15705.18	1471.317	1340.932	1638.170
#2	1766.990	15752.29	1467.804	1325.638	1637.775
#3	1771.958	15744.72	1464.813	1328.402	1646.302

Reviewed By:Mohan
On:1/8/2025 7:28:17 AM
Inst Id :P5

Sample Name: P5122-03 Acquired: 01/06/2025 17:15:30 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v80) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHM64 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1852646	-.029255	9.940732	.0915007	.0613767	55.19434
Stddev	.0047441	.004077	.022908	.0076465	.0017847	.78471
%RSD	2.560699	13.93527	.2304450	8.356739	2.907780	1.421720
#1	.1828567	-.024594	9.966549	.0991363	.0602121	54.76174
#2	.1822074	-.031016	9.932813	.0915225	.0604865	56.10014
#3	.1907297	-.032156	9.922835	.0838434	.0634313	54.72115

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.976159	.0074701	.0112051	165.1106	.2134320	.1123833
Stddev	.042155	.0001847	.0001550	2.3091	.0005110	.0003489
%RSD	1.416409	2.472119	1.383484	1.398505	.2394086	.3104621
#1	2.941689	.0076826	.0112450	163.1356	.2129129	.1123960
#2	3.023157	.0073488	.0110341	167.6494	.2139345	.1127257
#3	2.963630	.0073788	.0113364	164.5470	.2134487	.1120282

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6416418	215.2475	4.852714	41.50406	.2674729	-.017353
Stddev	.0143431	3.1454	.059379	.50951	.0013241	.002199
%RSD	2.235377	1.461313	1.223615	1.227624	.4950450	12.67491
#1	.6290588	213.5019	4.820047	41.08013	.2687412	-.015200
#2	.6572594	218.8786	4.921253	42.06932	.2675782	-.017262
#3	.6386072	213.3620	4.816841	41.36274	.2660993	-.019596

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9072707	.2336479	5.328221	8.011539	F 17.86453	-.395720
Stddev	.0278498	.0050286	.025883	.203973	.04593	.003266
%RSD	3.069621	2.152217	.4857788	2.545996	.2571177	.8253734
#1	.8754295	.2349962	5.357915	7.795688	17.91647	-.399441
#2	.9270919	.2280826	5.316309	8.201083	17.84787	-.394391
#3	.9192907	.2378649	5.310437	8.037845	17.82926	-.393327

Reviewed By:Mohan
On:1/8/2025 7:28:17 AM
Inst Id :P5

Sample Name: P5122-03 Acquired: 01/06/2025 17:15:30 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v80) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHM64 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0201115	6.407541	8.380850	.2690863	.9982595	.3589024
Stddev	.0006584	.027815	.073507	.0029439	.0151779	.0041389
%RSD	3.273830	.4340909	.8770886	1.094039	1.520434	1.153210
#1	.0197870	6.439169	8.347567	.2708014	.9833680	.3565985
#2	.0196784	6.386888	8.465112	.2707704	1.013708	.3636805
#3	.0208692	6.396567	8.329872	.2656870	.997702	.3564281

Elem	Li6707
Units	ppm
Avg	.0708062
Stddev	.0029246
%RSD	4.130366
#1	.0737686
#2	.0679210
#3	.0707291

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1824.993	16311.53	1498.251	1376.646	1661.445
Stddev	.712	21.27	11.300	6.143	.626
%RSD	.0390176	.1303680	.7542181	.4462487	.0376706
#1	1825.748	16335.73	1505.049	1369.926	1662.126
#2	1824.897	16295.85	1485.207	1381.974	1661.315
#3	1824.334	16303.00	1504.497	1378.039	1660.895

Reviewed By:Mohan
On:1/8/2025 7:28:17 AM
Inst Id :P5

Sample Name: P5122-04 Acquired: 01/06/2025 17:19:17 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v80) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHM65 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2199800	-.031455	10.14999	.0838159	.0662019	55.90453
Stddev	.0030630	.002236	.01580	.0014843	.0019314	.57788
%RSD	1.392424	7.107034	.1556829	1.770938	2.917519	1.033689
#1	.2194975	-.028909	10.13197	.0854323	.0656655	55.23874
#2	.2232556	-.032358	10.15652	.0835012	.0683448	56.19896
#3	.2171868	-.033097	10.16148	.0825141	.0645953	56.27590

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.168788	.0080306	.0124767	210.3944	.2394290	.1285441
Stddev	.021253	.0001750	.0001020	1.4678	.0003113	.0005455
%RSD	.6706829	2.178720	.8175990	.6976288	.1300211	.4243732
#1	3.144248	.0080846	.0125095	208.7231	.2392050	.1281920
#2	3.180992	.0078350	.0125582	211.4740	.2392977	.1291725
#3	3.181125	.0081721	.0123623	210.9861	.2397845	.1282679

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7008531	229.5528	5.073120	48.88296	.2932351	-.019141
Stddev	.0247331	1.7537	.046181	.38324	.0021032	.001525
%RSD	3.529001	.7639576	.9103075	.7839996	.7172474	7.964710
#1	.6756280	227.5284	5.020057	48.44056	.2912879	-.020822
#2	.7018684	230.5215	5.104225	49.11362	.2954656	-.017847
#3	.7250630	230.6084	5.095079	49.09469	.2929518	-.018756

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.091019	.2748170	5.488041	6.820147	F 17.73988	-.436397
Stddev	.006361	.0132704	.023256	.238730	.04325	.006415
%RSD	.5830257	4.828812	.4237556	3.500359	.2437962	1.469946
#1	1.089949	.2731302	5.514265	6.561722	17.69113	-.438372
#2	1.097846	.2624707	5.469921	6.866268	17.75489	-.441592
#3	1.085260	.2888502	5.479938	7.032452	17.77363	-.429227

Reviewed By:Mohan
On:1/8/2025 7:28:17 AM
Inst Id :P5

Sample Name: P5122-04 Acquired: 01/06/2025 17:19:17 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v80) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHM65 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0192338	5.779580	8.239437	.3605490	1.231756	.4558367
Stddev	.0007277	.014548	.049776	.0035984	.017383	.0039068
%RSD	3.783504	.2517064	.6041226	.9980209	1.411228	.8570680
#1	.0193987	5.764008	8.232009	.3571321	1.212829	.4513552
#2	.0184378	5.781912	8.292510	.3643049	1.247006	.4576301
#3	.0198649	5.792821	8.193792	.3602101	1.235435	.4585249

Elem	Li6707
Units	ppm
Avg	.0734282
Stddev	.0069256
%RSD	9.431786
#1	.0811719
#2	.0678272
#3	.0712854

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1796.152	15974.35	1482.128	1356.540	1644.116
Stddev	2.348	97.58	3.830	9.759	2.302
%RSD	.1307064	.6108606	.2583903	.7194229	.1400239
#1	1796.544	16005.82	1486.536	1353.754	1646.610
#2	1798.279	16052.31	1480.228	1367.389	1643.668
#3	1793.632	15864.91	1479.619	1348.476	1642.071

Reviewed By:Mohan
On:1/8/2025 7:28:17 AM
Inst Id :P5

Sample Name: P5122-05 Acquired: 01/06/2025 17:23:03 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v80) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHM66 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1498003	-.022042	3.811971	.0635510	.0448910	60.84849
Stddev	.0012409	.000772	.011341	.0031814	.0039696	.29120
%RSD	.8283424	3.503146	.2975227	5.006069	8.842766	.4785610
#1	.1489251	-.022101	3.824090	.0653119	.0410520	61.17413
#2	.1492553	-.022783	3.810212	.0654627	.0446415	60.61313
#3	.1512204	-.021242	3.801612	.0598785	.0489795	60.75820

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.147630	.0066842	.0099228	152.8229	.1695652	.1138897
Stddev	.007501	.0000320	.0001810	.4233	.0007244	.0006829
%RSD	.3492592	.4790395	1.824151	.2769804	.4272291	.5996190
#1	2.146703	.0066473	.0100234	153.2912	.1703801	.1143837
#2	2.155551	.0067049	.0100311	152.7102	.1689943	.1131104
#3	2.140636	.0067003	.0097138	152.4674	.1693211	.1141750

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6923635	175.2386	6.305678	36.69331	.1971576	-.011804
Stddev	.0106381	.6516	.036086	.18647	.0013279	.000905
%RSD	1.536491	.3718571	.5722811	.5081854	.6735214	7.665131
#1	.6897672	175.5546	6.338909	36.90337	.1986369	-.012128
#2	.6832639	174.4892	6.267291	36.54733	.1967675	-.010782
#3	.7040594	175.6720	6.310835	36.62922	.1960685	-.012502

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8502877	.1849440	2.627901	5.746519	F 19.30122	-.331066
Stddev	.0185084	.0025662	.009037	.270515	.07688	.002622
%RSD	2.176718	1.387556	.3438822	4.707460	.3983181	.7918473
#1	.8662595	.1825878	2.631202	5.501827	19.38942	-.332350
#2	.8300040	.1845658	2.634823	6.037010	19.24840	-.328050
#3	.8545996	.1876782	2.617677	5.700718	19.26585	-.332798

Reviewed By:Mohan
On:1/8/2025 7:28:17 AM
Inst Id :P5

Sample Name: P5122-05 Acquired: 01/06/2025 17:23:03 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v80) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHM66 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0157990	4.228735	9.045350	.2145235	.8336818	.4447637
Stddev	.0005874	.015675	.055345	.0030432	.0035550	.0014090
%RSD	3.717914	.3706761	.6118578	1.418601	.4264234	.3168042
#1	.0151668	4.245874	9.107943	.2157019	.8362440	.4463880
#2	.0159023	4.215125	9.002892	.2168014	.8351781	.4440321
#3	.0163279	4.225207	9.025213	.2110673	.8296232	.4438709

Elem	Li6707
Units	ppm
Avg	.0778422
Stddev	.0024211
%RSD	3.110235
#1	.0762375
#2	.0806270
#3	.0766619

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2012.055	17910.74	1651.646	1520.391	1669.423
Stddev	6.414	17.68	9.371	7.859	4.819
%RSD	.3187789	.0987106	.5673887	.5169291	.2886857
#1	2008.509	17911.07	1640.860	1517.087	1665.641
#2	2008.197	17892.89	1657.792	1514.724	1667.779
#3	2019.459	17928.25	1656.285	1529.363	1674.849

Reviewed By:Mohan
On:1/8/2025 7:28:17 AM
Inst Id :P5

Sample Name: P5122-06 Acquired: 01/06/2025 17:26:50 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v80) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHM67 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1307205	-.006301	1.956731	.0680609	.0348724	72.01281
Stddev	.0008986	.001562	.007215	.0022820	.0024080	.41527
%RSD	.6873793	24.78968	.3687099	3.352919	6.905152	.5766596
#1	.1301560	-.006506	1.949409	.0674209	.0375957	72.39495
#2	.1302489	-.007751	1.963833	.0705946	.0330249	72.07260
#3	.1317567	-.004647	1.956952	.0661672	.0339964	71.57089

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.099575	.0065604	.0109243	135.2432	.1608031	.1417387
Stddev	.009648	.0003078	.0000317	.5221	.0005654	.0002593
%RSD	.4595374	4.691337	.2898935	.3860637	.3516301	.1829421
#1	2.096623	.0064063	.0109084	135.1327	.1602888	.1414474
#2	2.110355	.0069148	.0109038	135.8118	.1614086	.1419442
#3	2.091748	.0063601	.0109608	134.7852	.1607120	.1418246

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3756931	171.2544	11.07868	36.57664	.2005412	-.011860
Stddev	.0057260	.7542	.06227	.09877	.0024453	.001346
%RSD	1.524126	.4403862	.5620651	.2700276	1.219369	11.34833
#1	.3697634	172.0682	11.13135	36.66393	.2008768	-.013326
#2	.3811910	171.1159	11.09474	36.59657	.2028013	-.010681
#3	.3761248	170.5791	11.00996	36.46943	.1979453	-.011572

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7700841	.1718655	1.486208	7.120394	F 16.97459	-.329222
Stddev	.0079393	.0077467	.004436	.066429	.02161	.006572
%RSD	1.030970	4.507439	.2984658	.9329434	.1272801	1.996193
#1	.7737064	.1677915	1.491277	7.182179	16.98672	-.328221
#2	.7755662	.1807991	1.483037	7.050134	16.98741	-.336237
#3	.7609796	.1670057	1.484310	7.128869	16.94965	-.323208

Reviewed By:Mohan
On:1/8/2025 7:28:17 AM
Inst Id :P5

Sample Name: P5122-06 Acquired: 01/06/2025 17:26:50 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v80) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHM67 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0179734	4.655871	8.885835	.2173081	.7853149	.2516057
Stddev	.0004631	.002266	.050920	.0015167	.0062063	.0015933
%RSD	2.576652	.0486678	.5730471	.6979340	.7902952	.6332404
#1	.0184737	4.654563	8.848613	.2190168	.7887720	.2529135
#2	.0175596	4.654563	8.943863	.2167863	.7890228	.2520724
#3	.0178871	4.658488	8.865027	.2161213	.7781500	.2498312

Elem	Li6707
Units	ppm
Avg	.0890894
Stddev	.0026871
%RSD	3.016151
#1	.0861594
#2	.0914386
#3	.0896702

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2270.045	20265.45	1870.853	1710.394	1648.089
Stddev	5.515	68.96	9.756	10.857	3.704
%RSD	.2429283	.3403002	.5214957	.6347762	.2247172
#1	2266.653	20187.36	1867.300	1698.214	1649.816
#2	2267.073	20318.00	1863.371	1719.056	1643.837
#3	2276.408	20290.99	1881.888	1713.912	1650.613

Reviewed By:Mohan
On:1/8/2025 7:28:17 AM
Inst Id :P5

Sample Name: P5122-07 Acquired: 01/06/2025 17:30:37 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v80) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHM68 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0692862	.0080440	.2439991	.0392149	.0257383	62.25420	.7759469
Stddev	.0070694	.0063974	.0069666	.0068449	.0013439	.36734	.0038399
%RSD	10.20319	79.52964	2.855153	17.45481	5.221569	.5900678	.4948648
#1	.0768878	.0017827	.2404258	.0314931	.0242556	61.90107	.7746175
#2	.0629089	.0077800	.2395443	.0445361	.0260829	62.63427	.7802748
#3	.0680619	.0145693	.2520273	.0416156	.0268763	62.22726	.7729484

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0044888	.0027775	707.9622	.1082213	.1320657	.1914282	153.1034
Stddev	.0001886	.0001287	5.4962	.0016076	.0015380	.0078146	1.0793
%RSD	4.201304	4.634651	.7763456	1.485456	1.164580	4.082253	.7049304
#1	.0046213	.0028328	701.8602	.1092080	.1322729	.1907553	151.8832
#2	.0045723	.0026304	712.5241	.1063663	.1304346	.1839718	153.9330
#3	.0042729	.0028694	709.5023	.1090897	.1334897	.1995574	153.4939

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	10.04137	152.3258	.1902384	-.014373	1.267235	.1492310	.4534814
Stddev	.08632	1.1579	.0034259	.002616	.023397	.0063092	.0049536
%RSD	.8595967	.7601558	1.800850	18.19929	1.846271	4.227837	1.092346
#1	9.96501	151.1737	.1916175	-.011353	1.240266	.1507516	.4541387
#2	10.13502	153.4895	.1863379	-.015906	1.279329	.1423005	.4482320
#3	10.02408	152.3141	.1927598	-.015859	1.282108	.1546411	.4580735

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	8.198968	7.273571	-.277265	.0066739	1.415133	6.868444	.0323610
Stddev	.099693	.062017	.003530	.0008646	.014771	.053243	.0015950
%RSD	1.215916	.8526375	1.273160	12.95454	1.043824	.7751796	4.928781
#1	8.180422	7.280434	-.274800	.0075525	1.418112	6.816468	.0306081
#2	8.306632	7.208408	-.281309	.0066449	1.399099	6.922869	.0337268
#3	8.109851	7.331872	-.275687	.0058241	1.428188	6.865995	.0327481

Reviewed By:Mohan
On:1/8/2025 7:28:17 AM
Inst Id :P5

Sample Name: P5122-07 Acquired: 01/06/2025 17:30:37 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v80) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHM68 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	1.193053	.6316653	.1215570
Stddev	.013177	.0050901	.0041986
%RSD	1.104497	.8058232	3.454022
#1	1.179243	.6264398	.1168339
#2	1.205491	.6366082	.1248658
#3	1.194423	.6319480	.1229713

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1797.682	15862.75	1516.613	1352.245	1451.048
Stddev	12.949	75.28	11.525	10.669	14.559
%RSD	.7203084	.4745678	.7599162	.7889890	1.003309
#1	1797.404	15875.50	1527.216	1354.591	1448.096
#2	1810.769	15930.83	1504.346	1361.546	1466.857
#3	1784.875	15781.90	1518.276	1340.598	1438.192

Reviewed By:Mohan
On:1/8/2025 7:28:17 AM
Inst Id :P5

Sample Name: P5122-08 Acquired: 01/06/2025 17:34:25 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v80) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHM69 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0435766	.0199426	.1642384	.0223915	.0210625	49.97731
Stddev	.0054510	.0044188	.0012298	.0045086	.0026491	.43891
%RSD	12.50895	22.15766	.7487948	20.13529	12.57751	.8782257
#1	.0492110	.0163222	.1634240	.0274971	.0236845	49.51299
#2	.0383298	.0186390	.1636382	.0207201	.0183870	50.03354
#3	.0431891	.0248666	.1656531	.0189573	.0211159	50.38540

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6017008	.0040450	.0023160	F 1000.887	.1033676	.1189335
Stddev	.0025264	.0001125	.0001147	8.270	.0005057	.0001675
%RSD	.4198724	2.781134	4.953561	.8262723	.4891964	.1408719
#1	.5990086	.0039153	.0024389	991.887	.1029934	.1191055
#2	.6020741	.0041168	.0022972	1002.622	.1031666	.1189242
#3	.6040198	.0041028	.0022118	1008.151	.1039429	.1187708

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1976747	127.6788	8.171072	229.8200	.1585654	-.011307
Stddev	.0052724	1.5778	.072702	2.3834	.0004906	.001218
%RSD	2.667226	1.235787	.8897433	1.037071	.3093791	10.77282
#1	.1916632	126.2912	8.092696	227.8028	.1591238	-.012503
#2	.1998467	127.3500	8.184213	229.2072	.1583689	-.011352
#3	.2015141	129.3951	8.236306	232.4499	.1582036	-.010068

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.603874	.1194176	.4226759	7.416355	F 10.73446	-.216319
Stddev	.024614	.0154518	.0038656	.181631	.01253	.005638
%RSD	1.534645	12.93931	.9145505	2.449060	.1167687	2.606115
#1	1.575524	.1145478	.4259421	7.388064	10.73416	-.212724
#2	1.616302	.1367176	.4236774	7.250531	10.74714	-.213416
#3	1.619796	.1069874	.4184080	7.610472	10.72208	-.222816

Reviewed By:Mohan
On:1/8/2025 7:28:17 AM
Inst Id :P5

Sample Name: P5122-08 Acquired: 01/06/2025 17:34:25 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v80) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHM69 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0057362	1.596717	6.223105	.0292360	.8949934	1.129268
Stddev	.0004771	.007266	.090264	.0038183	.0084451	.010880
%RSD	8.317650	.4550672	1.450468	13.06016	.9435877	.9634739
#1	.0053669	1.598141	6.153314	.0264601	.8857036	1.117189
#2	.0055668	1.588845	6.190959	.0335904	.9022061	1.132317
#3	.0062749	1.603166	6.325042	.0276574	.8970705	1.138299

Elem	Li6707
Units	ppm
Avg	.0987340
Stddev	.0007913
%RSD	.8014914
#1	.0990624
#2	.0993083
#3	.0978313

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1753.227	15639.22	1474.539	1309.659	1418.954
Stddev	5.650	76.20	16.297	11.657	2.191
%RSD	.3222504	.4872061	1.105210	.8900625	.1544174
#1	1751.463	15553.16	1484.167	1298.012	1418.702
#2	1748.670	15666.44	1483.726	1309.642	1416.900
#3	1759.549	15698.07	1455.723	1321.325	1421.261

Reviewed By:Mohan
On:1/8/2025 7:28:17 AM
Inst Id :P5

Sample Name: P5122-09 Acquired: 01/06/2025 17:38:20 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v80) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMC6 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1702754	-.018244	9.279947	.0787781	.0565356	51.64049
Stddev	.0070981	.002347	.022117	.0099332	.0021032	.21386
%RSD	4.168588	12.86214	.2383304	12.60906	3.720081	.4141389
#1	.1746218	-.020688	9.254835	.0894654	.0555623	51.75475
#2	.1741200	-.016009	9.288477	.0770406	.0589492	51.77295
#3	.1620843	-.018036	9.296528	.0698283	.0550955	51.39376

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.593379	.0074136	.0147997	211.2338	.1953036	.1111131
Stddev	.005455	.0000423	.0000615	.5845	.0014096	.0007599
%RSD	.2103462	.5700416	.4158050	.2767175	.7217424	.6838884
#1	2.599086	.0073769	.0147929	211.7596	.1937101	.1102409
#2	2.588217	.0074598	.0148643	211.3375	.1958129	.1116324
#3	2.592835	.0074042	.0147418	210.6044	.1963877	.1114659

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5475465	206.0339	5.745627	59.85293	.3002146	-.016760
Stddev	.0114726	.5786	.019093	.49102	.0023189	.001010
%RSD	2.095265	.2808225	.3323020	.8203759	.7724088	6.025976
#1	.5561396	206.5940	5.748402	59.70522	.2975380	-.015624
#2	.5345185	206.0693	5.763180	60.40086	.3014895	-.017099
#3	.5519814	205.4385	5.725298	59.45273	.3016164	-.017556

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8257136	.2032091	4.774001	8.424990	F 14.33505	-.374686
Stddev	.0297681	.0195983	.016843	.084955	.02796	.002339
%RSD	3.605136	9.644393	.3528073	1.008373	.1950508	.6242729
#1	.7962305	.1849657	4.759341	8.328149	14.30644	-.373185
#2	.8251515	.2239272	4.770263	8.486965	14.33640	-.377381
#3	.8557587	.2007343	4.792399	8.459857	14.36231	-.373492

Reviewed By:Mohan
On:1/8/2025 7:28:17 AM
Inst Id :P5

Sample Name: P5122-09 Acquired: 01/06/2025 17:38:20 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v80) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMC6 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0163402	6.921706	7.536689	.3118250	1.162637	.3260414
Stddev	.0005135	.007874	.036228	.0014031	.008023	.0008897
%RSD	3.142792	.1137564	.4806890	.4499640	.6901111	.2728784
#1	.0159772	6.913824	7.503701	.3102445	1.157693	.3270075
#2	.0169278	6.921723	7.575461	.3123066	1.171895	.3258608
#3	.0161155	6.929572	7.530905	.3129239	1.158324	.3252558

Elem	Li6707
Units	ppm
Avg	.0752392
Stddev	.0244905
%RSD	32.55024
#1	.0611758
#2	.0610235
#3	.1035183

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1795.251	15895.34	1476.434	1342.725	1638.876
Stddev	4.364	18.69	6.648	.479	5.414
%RSD	.2430966	.1175511	.4502437	.0356991	.3303677
#1	1799.930	15875.30	1479.384	1342.896	1645.113
#2	1791.291	15912.28	1468.823	1343.096	1636.132
#3	1794.531	15898.43	1481.097	1342.184	1635.383

Reviewed By:Mohan
On:1/8/2025 7:28:17 AM
Inst Id :P5

Sample Name: P5122-10 Acquired: 01/06/2025 17:42:06 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v80) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMC7 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1919135	-.022050	10.88823	.0786784	.0585355	51.98086
Stddev	.0012875	.002909	.02611	.0053185	.0044627	.94928
%RSD	.6708471	13.19447	.2398028	6.759744	7.623932	1.826207
#1	.1925799	-.019904	10.89096	.0846136	.0628018	51.81609
#2	.1904294	-.020884	10.86086	.0770771	.0589052	51.12475
#3	.1927311	-.025361	10.91286	.0743446	.0538994	53.00173

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.553555	.0077388	.0142764	284.3322	.2035467	.1167385
Stddev	.034574	.0002893	.0001142	4.6323	.0006887	.0002295
%RSD	1.353974	3.738695	.7998357	1.629197	.3383521	.1965605
#1	2.545726	.0074451	.0141777	283.6051	.2041378	.1169291
#2	2.523566	.0077477	.0144015	280.1064	.2037120	.1168026
#3	2.591372	.0080236	.0142500	289.2851	.2027904	.1164838

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5946122	219.2249	6.579848	68.80172	.3261490	-.017825
Stddev	.0216424	3.8514	.117715	1.33743	.0017937	.000727
%RSD	3.639754	1.756814	1.789016	1.943896	.5499597	4.081169
#1	.6132907	218.2037	6.568358	68.78701	.3259482	-.017903
#2	.5708949	215.9871	6.468300	67.47171	.3244642	-.018510
#3	.5996511	223.4840	6.702887	70.14645	.3280347	-.017062

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9617654	.1966851	5.049704	7.798951	F 13.35041	-.408213
Stddev	.0112705	.0075087	.016021	.280222	.04087	.007754
%RSD	1.171853	3.817606	.3172708	3.593068	.3061433	1.899487
#1	.9565629	.1891362	5.065612	7.664700	13.34433	-.401360
#2	.9540359	.2041529	5.033572	7.611113	13.31293	-.406649
#3	.9746974	.1967662	5.049928	8.121041	13.39399	-.416630

Reviewed By:Mohan
On:1/8/2025 7:28:17 AM
Inst Id :P5

Sample Name: P5122-10 Acquired: 01/06/2025 17:42:06 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v80) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMC7 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0149689	6.186742	7.945201	.2812606	1.047366	.3691955
Stddev	.0003370	.006470	.155804	.0004701	.014742	.0079109
%RSD	2.251200	.1045789	1.960978	.1671244	1.407529	2.142727
#1	.0152753	6.180738	7.850044	.2807692	1.048475	.3696255
#2	.0146080	6.185896	7.860552	.2817059	1.032101	.3610784
#3	.0150234	6.193594	8.125005	.2813067	1.061523	.3768826

Elem	Li6707
Units	ppm
Avg	.0644056
Stddev	.0063755
%RSD	9.898961
#1	.0573063
#2	.0696426
#3	.0662680

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1767.360	15806.82	1468.343	1332.936	1594.129
Stddev	.949	58.76	28.170	12.326	4.827
%RSD	.0536908	.3717228	1.918522	.9247264	.3027984
#1	1766.424	15739.02	1476.828	1320.345	1592.185
#2	1767.334	15838.44	1491.296	1344.979	1599.625
#3	1768.321	15843.00	1436.905	1333.483	1590.577

Reviewed By:Mohan
On:1/8/2025 7:28:17 AM
Inst Id :P5

Sample Name: P5122-11 Acquired: 01/06/2025 17:45:52 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v80) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMC8 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2665939	-.041934	32.79354	.1146549	.0739231	54.19699
Stddev	.0037680	.002113	.07170	.0027247	.0017611	.53946
%RSD	1.413401	5.038335	.2186521	2.376470	2.382342	.9953668
#1	.2648684	-.041744	32.82065	.1170040	.0735012	54.37834
#2	.2709157	-.039923	32.71224	.1116677	.0724114	54.62240
#3	.2639976	-.044136	32.84774	.1152928	.0758569	53.59022

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.941657	.0085540	.0171708	401.6409	.2083113	.1341798
Stddev	.033906	.0002433	.0001885	3.3033	.0011209	.0009660
%RSD	.8602018	2.844101	1.097847	.8224563	.5380989	.7199231
#1	3.946235	.0087017	.0169993	402.9016	.2070271	.1350400
#2	3.973041	.0086871	.0171406	404.1282	.2088136	.1331348
#3	3.905694	.0082732	.0173726	397.8929	.2090933	.1343646

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7928827	280.4471	6.307589	61.20247	.3588559	-.019852
Stddev	.0146171	2.2943	.048276	.53491	.0015202	.001582
%RSD	1.843543	.8180931	.7653632	.8740055	.4236129	7.970157
#1	.7966538	281.7220	6.321417	61.32462	.3605706	-.019665
#2	.8052447	281.8208	6.347442	61.66574	.3576735	-.018372
#3	.7767495	277.7984	6.253908	60.61704	.3583236	-.021520

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.295864	.2113540	7.714394	7.721509	F 18.00088	-.541571
Stddev	.019686	.0058972	.036850	.109964	.04647	.003054
%RSD	1.519125	2.790195	.4776821	1.424124	.2581773	.5639311
#1	1.295023	.2058140	7.672272	7.812793	18.01050	-.539195
#2	1.315957	.2106950	7.740676	7.752303	17.95035	-.545016
#3	1.276613	.2175530	7.730234	7.599431	18.04179	-.540501

Reviewed By:Mohan
On:1/8/2025 7:28:17 AM
Inst Id :P5

Sample Name: P5122-11 Acquired: 01/06/2025 17:45:52 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v80) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMC8 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0188119	6.653905	7.713854	.4534903	1.246748	.7183004
Stddev	.0005787	.023921	.058812	.0021406	.012667	.0077218
%RSD	3.075966	.3595095	.7624212	.4720166	1.016030	1.075013
#1	.0186950	6.663384	7.689359	.4534534	1.242849	.7184324
#2	.0194401	6.626697	7.780954	.4556491	1.260907	.7259553
#3	.0183007	6.671634	7.671248	.4513684	1.236489	.7105133

Elem	Li6707
Units	ppm
Avg	.0661984
Stddev	.0007694
%RSD	1.162220
#1	.0656737
#2	.0670816
#3	.0658399

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1880.658	16920.06	1562.874	1420.970	1585.367
Stddev	4.436	92.41	9.553	5.036	5.311
%RSD	.2358653	.5461522	.6112593	.3544019	.3349783
#1	1878.015	16972.96	1566.478	1426.365	1579.238
#2	1878.179	16973.87	1552.042	1420.153	1588.608
#3	1885.779	16813.36	1570.100	1416.393	1588.254

Reviewed By:Mohan
On:1/8/2025 7:28:17 AM
Inst Id :P5

Sample Name: P5122-15 Acquired: 01/06/2025 17:49:37 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v80) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMD0 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1010517	.0093466	3.900387	.0299024	.0432374	43.46580
Stddev	.0040982	.0019299	.007977	.0075464	.0031452	.28607
%RSD	4.055516	20.64872	.2045111	25.23682	7.274328	.6581443
#1	.1057289	.0107650	3.897786	.0226900	.0436410	43.78585
#2	.0980903	.0071488	3.909339	.0377434	.0461613	43.37654
#3	.0993359	.0101259	3.894035	.0292737	.0399098	43.23500

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.546722	.0045249	.0050399	655.2708	.1344030	.1004882
Stddev	.009449	.0001982	.0000425	1.4842	.0001854	.0006599
%RSD	.6108851	4.379229	.8438337	.2265069	.1379373	.6566689
#1	1.556265	.0043924	.0050292	656.9543	.1345598	.1002190
#2	1.546531	.0047527	.0050867	654.7068	.1341984	.1012401
#3	1.537370	.0044297	.0050037	654.1512	.1344507	.1000055

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4874679	153.9013	8.859118	143.2375	.1263843	-.007558
Stddev	.0152057	.3369	.009185	.5922	.0011822	.002505
%RSD	3.119329	.2189033	.1036762	.4134652	.9353697	33.14970
#1	.4748125	154.2632	8.865539	143.9213	.1277385	-.008120
#2	.5043357	153.5968	8.848598	142.8946	.1258560	-.009734
#3	.4832554	153.8441	8.863219	142.8964	.1255585	-.004819

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.097803	.1233808	2.030472	5.088847	F 14.43744	-.270077
Stddev	.018741	.0098963	.013442	.373478	.02519	.001074
%RSD	1.707176	8.020916	.6620235	7.339157	.1744924	.3975847
#1	1.116050	.1153253	2.045006	4.756909	14.42123	-.268978
#2	1.098755	.1203893	2.027923	5.493246	14.46647	-.271124
#3	1.078604	.1344277	2.018486	5.016385	14.42463	-.270129

Reviewed By:Mohan
On:1/8/2025 7:28:17 AM
Inst Id :P5

Sample Name: P5122-15 Acquired: 01/06/2025 17:49:37 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v80) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMD0 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0101737	6.621719	7.919842	.4002482	.7987837	.9169464
Stddev	.0010905	.013213	.024235	.0007548	.0051112	.0032798
%RSD	10.71905	.1995341	.3060019	.1885827	.6398770	.3576831
#1	.0097344	6.609040	7.918886	.4000204	.8046838	.9207335
#2	.0114153	6.635408	7.944541	.4010906	.7959601	.9150461
#3	.0093713	6.620708	7.896100	.3996335	.7957071	.9150595

Elem	Li6707
Units	ppm
Avg	.0529226
Stddev	.0017058
%RSD	3.223171
#1	.0547799
#2	.0514261
#3	.0525618

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1744.750	15597.67	1457.544	1315.766	1477.439
Stddev	2.633	27.09	6.038	8.020	.856
%RSD	.1509327	.1737047	.4142739	.6095381	.0579224
#1	1742.283	15619.49	1456.937	1307.505	1476.452
#2	1747.523	15567.35	1451.831	1316.274	1477.979
#3	1744.444	15606.18	1463.862	1323.521	1477.886

Reviewed By:Mohan
On:1/8/2025 7:28:17 AM
Inst Id :P5

Sample Name: P5122-16 Acquired: 01/06/2025 17:53:24 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v80) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMD1 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1837102	.0174188	2.657409	.1260099	.0486576	65.57265
Stddev	.0020130	.0028854	.005915	.0047980	.0037952	.33283
%RSD	1.095767	16.56470	.2225883	3.807664	7.799853	.5075734
#1	.1859179	.0145354	2.659204	.1219472	.0500944	65.18922
#2	.1819763	.0203062	2.650805	.1313035	.0515246	65.74182
#3	.1832366	.0174149	2.662219	.1247791	.0443537	65.78692

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.811187	.0036615	.0099045	108.7116	.2093023	.1535821
Stddev	.013684	.0001556	.0000868	.5659	.0010573	.0004779
%RSD	.3590439	4.248602	.8768221	.5205110	.5051285	.3111774
#1	3.795621	.0038249	.0098547	108.0598	.2100010	.1539652
#2	3.816622	.0036445	.0098540	109.0770	.2080860	.1530465
#3	3.821318	.0035151	.0100048	108.9981	.2098200	.1537344

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4908236	225.3101	F 43.97089	31.11617	.1984572	-.007064
Stddev	.0071253	1.0364	.20418	.24972	.0015798	.001227
%RSD	1.451696	.4599684	.4643481	.8025528	.7960229	17.36729
#1	.4964432	224.1271	43.73544	30.95655	.2002777	-.005786
#2	.4828095	226.0582	44.09914	30.98801	.1974474	-.008233
#3	.4932182	225.7449	44.07809	31.40396	.1976465	-.007174

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4928641	.1678025	2.019248	5.384314	F 26.71135	-.474732
Stddev	.0181205	.0097818	.004808	.339431	.03373	.001842
%RSD	3.676581	5.829339	.2380902	6.304074	.1262866	.3879983
#1	.5028257	.1565199	2.020773	5.001222	26.72413	-.475646
#2	.4719482	.1729843	2.023108	5.504139	26.67309	-.475939
#3	.5038185	.1739032	2.013863	5.647582	26.73682	-.472612

Reviewed By:Mohan
On:1/8/2025 7:28:17 AM
Inst Id :P5

Sample Name: P5122-16 Acquired: 01/06/2025 17:53:24 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v80) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMD1 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0234883	5.770183	8.461751	.2563219	.7139528	.5118263
Stddev	.0005042	.005944	.015960	.0007365	.0003161	.0025689
%RSD	2.146498	.1030149	.1886192	.2873238	.0442738	.5019088
#1	.0240704	5.763330	8.454014	.2558333	.7135912	.5089894
#2	.0231954	5.773947	8.480106	.2571690	.7141764	.5124942
#3	.0231989	5.773271	8.451134	.2559634	.7140909	.5139953

Elem	Li6707
Units	ppm
Avg	.0835485
Stddev	.0029064
%RSD	3.478681
#1	.0806794
#2	.0864908
#3	.0834752

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2168.842	19327.84	1778.741	1633.542	1663.351
Stddev	9.216	47.88	5.359	4.038	7.008
%RSD	.4249394	.2477506	.3012645	.2471695	.4213092
#1	2179.262	19355.40	1784.292	1638.197	1670.435
#2	2165.507	19355.57	1773.598	1631.002	1663.197
#3	2161.758	19272.55	1778.334	1631.425	1656.422

Reviewed By:Mohan
On:1/8/2025 7:28:17 AM
Inst Id :P5

Sample Name: P5122-17 Acquired: 01/06/2025 17:57:10 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v80) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMD2 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0679596	.0042727	.1053043	.0300984	.0181645	12.31087	.6342713
Stddev	.0050242	.0020860	.0015765	.0049718	.0070765	.05078	.0018218
%RSD	7.392968	48.82143	1.497077	16.51847	38.95783	.4124803	.2872240
#1	.0730840	.0055454	.1040870	.0317638	.0237726	12.26044	.6323570
#2	.0677528	.0018653	.1047409	.0340237	.0205071	12.36199	.6359837
#3	.0630419	.0054074	.1070851	.0245077	.0102137	12.31018	.6344734

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0016130	.0031104	97.25937	.1145393	.0592928	.1948876	84.16336
Stddev	.0002000	.0000388	.17021	.0015528	.0001314	.0098398	.45833
%RSD	12.39801	1.246985	.1750017	1.355690	.2215492	5.048952	.5445751
#1	.0013874	.0030694	97.40005	.1162420	.0594353	.1976586	84.13927
#2	.0016832	.0031152	97.30790	.1141746	.0592668	.2030447	84.63327
#3	.0017685	.0031465	97.07017	.1132013	.0591764	.1839594	83.71755

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.087204	8.058518	.0509283	-.004694	.1046690	.0496557	.2073574
Stddev	.024062	.123458	.0009768	.001683	.0247008	.0015812	.0003850
%RSD	.5887084	1.532024	1.918069	35.85283	23.59898	3.184247	.1856889
#1	4.090993	8.170280	.0514510	-.004802	.1310860	.0485478	.2076701
#2	4.109147	7.925996	.0498013	-.002960	.0821473	.0489528	.2074748
#3	4.061473	8.079277	.0515325	-.006321	.1007736	.0514664	.2069274

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0633671	3.322834	-.060966	.0351081	51.71932	2.790503	.0181264
Stddev	.1660965	.010690	.004137	.0006540	.13644	.028427	.0010622
%RSD	262.1180	.3217214	6.786045	1.862674	.2638016	1.018713	5.859775
#1	-.035821	3.315195	-.063477	.0353939	51.69889	2.805219	.0187872
#2	-.029199	3.318257	-.056191	.0355705	51.59425	2.757734	.0186908
#3	.255121	3.335051	-.063230	.0343599	51.86482	2.808555	.0169012

Reviewed By:Mohan
On:1/8/2025 7:28:17 AM
Inst Id :P5

Sample Name: P5122-17 Acquired: 01/06/2025 17:57:10 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v80) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMD2 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.2392322	.2954614	-.018459
Stddev	.0081955	.0011137	.005147
%RSD	3.425765	.3769293	27.88432
#1	.2373886	.2957930	-.020944
#2	.2481924	.2963716	-.012541
#3	.2321154	.2942196	-.021892

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1702.402	15288.39	1378.307	1298.783	1734.420
Stddev	5.057	140.48	5.128	5.897	3.827
%RSD	.2970645	.9188773	.3720162	.4540766	.2206698
#1	1696.724	15221.97	1372.423	1297.626	1731.482
#2	1704.058	15193.42	1381.818	1293.550	1738.748
#3	1706.423	15449.76	1380.680	1305.173	1733.029

Reviewed By:Mohan
On:1/8/2025 7:28:17 AM
Inst Id :P5

Sample Name: P5122-18 Acquired: 01/06/2025 18:00:59 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v80) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMD3 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0829565	-.000788	.6839935	.0154501	.0173978	19.16576	.6715393
Stddev	.0012392	.004001	.0023154	.0034829	.0050510	.10480	.0050924
%RSD	1.493818	507.7062	.3385062	22.54315	29.03231	.5467844	.7583186
#1	.0818850	-.000694	.6814887	.0154339	.0161643	19.19533	.6773474
#2	.0843136	.003165	.6860555	.0189412	.0229513	19.25260	.6694301
#3	.0826709	-.004835	.6844363	.0119754	.0130779	19.04936	.6678403

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0033966	.0006258	65.88223	.0262508	.0546962	.2448229	66.41785
Stddev	.0002340	.0000409	.31183	.0011968	.0006420	.0072397	.17217
%RSD	6.888445	6.540207	.4733192	4.559213	1.173711	2.957112	.2592277
#1	.0031697	.0006671	65.56926	.0269670	.0550701	.2480521	66.50008
#2	.0033829	.0005853	66.19292	.0248691	.0550636	.2498861	66.53349
#3	.0036371	.0006250	65.88451	.0269163	.0539549	.2365306	66.21998

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8213424	9.977194	.0621300	-.006544	1.970314	.0960039	.3177111
Stddev	.0011616	.160825	.0004112	.000578	.026837	.0183992	.0018069
%RSD	.1414270	1.611925	.6618347	8.828797	1.362082	19.16505	.5687157
#1	.8220337	9.968204	.0623193	-.006582	1.987529	.0812265	.3197192
#2	.8200014	10.14232	.0616582	-.007101	1.939391	.1166120	.3162165
#3	.8219923	9.82105	.0624124	-.005948	1.984021	.0901732	.3171977

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.415277	3.249701	-.143697	.0128007	5.040466	3.692388	.0406964
Stddev	.037642	.009098	.001617	.0002808	.003346	.017952	.0011960
%RSD	2.659723	.2799565	1.124995	2.193778	.0663810	.4861987	2.938826
#1	1.382054	3.239634	-.145312	.0125206	5.043529	3.706671	.0419680
#2	1.456160	3.252135	-.143698	.0127993	5.036896	3.698259	.0405270
#3	1.407618	3.257334	-.142079	.0130822	5.040974	3.672236	.0395941

Reviewed By:Mohan
On:1/8/2025 7:28:17 AM
Inst Id :P5

Sample Name: P5122-18 Acquired: 01/06/2025 18:00:59 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v80) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMD3 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.3110738	.3112162	-.004648
Stddev	.0048353	.0008422	.005560
%RSD	1.554388	.2706189	119.6378
#1	.3112585	.3104469	-.010642
#2	.3158141	.3110855	.000342
#3	.3061488	.3121161	-.003643

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1672.534	14931.30	1360.088	1264.000	1749.091
Stddev	5.521	82.11	7.419	9.496	4.160
%RSD	.3300897	.5499220	.5454973	.7512597	.2378216
#1	1672.687	14854.70	1351.747	1253.039	1747.052
#2	1666.938	15017.99	1362.567	1269.210	1746.344
#3	1677.976	14921.20	1365.951	1269.750	1753.877

Reviewed By:Mohan
On:1/8/2025 7:28:17 AM
Inst Id :P5

Sample Name: CCV122 Acquired: 01/06/2025 18:04:49 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v80) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV122 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.850459	4.685263	23.92334	4.762100	4.760939	398.3000
Stddev	.010184	.009176	.03714	.004681	.016900	4.0231
%RSD	.2099589	.1958458	.1552560	.0982880	.3549802	1.010080
#1	4.843106	4.686081	23.92534	4.762098	4.761025	400.0080
#2	4.862083	4.675706	23.88523	4.766781	4.777796	401.1874
#3	4.846187	4.694003	23.95943	4.757420	4.743996	393.7047

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.925673	.4929813	2.402117	401.1968	15.19235	2.426560
Stddev	.112894	.0054735	.002718	4.4715	.02455	.004903
%RSD	1.137391	1.110291	.1131394	1.114534	.1615903	.2020544
#1	9.906682	.4959428	2.403156	402.0936	15.22041	2.429489
#2	10.04686	.4963360	2.399033	405.1519	15.18185	2.420900
#3	9.82348	.4866651	2.404161	396.3449	15.17480	2.429292

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	14.90728	406.0359	14.80843	402.5985	2.437198	1.220101
Stddev	.13591	3.7630	.14931	4.2757	.003521	.002937
%RSD	.9117267	.9267566	1.008297	1.062018	.1444637	.2406992
#1	14.97910	406.6246	14.86004	404.4251	2.435536	1.221279
#2	14.99222	409.4699	14.92509	405.6575	2.434815	1.222266
#3	14.75053	402.0134	14.64016	397.7130	2.441242	1.216758

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	398.1457	2.492964	14.23684	150.3409	4.789414	F 4.318781
Stddev	2.4239	.027002	.04520	1.6386	.017005	.034393
%RSD	.6087922	1.083125	.3174567	1.089949	.3550488	.7963683
#1	399.5006	2.523522	14.25014	150.6085	4.782328	4.333443
#2	399.5892	2.483048	14.27389	151.8293	4.777099	4.343414
#3	395.3473	2.472322	14.18648	148.5850	4.808816	4.279487

Reviewed By:Mohan
On:1/8/2025 7:28:17 AM
Inst Id :P5

Sample Name: CCV122 Acquired: 01/06/2025 18:04:49 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v80) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV122 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.725075	4.814821	4.869284	4.840627	4.959731	4.692703
Stddev	.003634	.008412	.051132	.001554	.048654	.043693
%RSD	.0769001	.1747052	1.050094	.0320938	.9809826	.9310804
#1	4.722294	4.824022	4.896489	4.838878	4.983752	4.700929
#2	4.729186	4.807526	4.901062	4.841156	4.991703	4.731697
#3	4.723745	4.812915	4.810301	4.841847	4.903738	4.645481

Elem	Li6707
Units	ppm
Avg	4.899735
Stddev	.057332
%RSD	1.170096
#1	4.900230
#2	4.956818
#3	4.842158

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1307.388	12657.73	1201.584	984.1757	1390.714
Stddev	2.252	21.35	11.902	3.1149	5.258
%RSD	.1722582	.1686545	.9905618	.3164966	.3780785
#1	1306.398	12636.08	1194.061	982.7991	1388.480
#2	1309.965	12678.77	1195.385	981.9862	1396.720
#3	1305.800	12658.34	1215.307	987.7417	1386.942

Reviewed By:Mohan
On:1/8/2025 7:28:17 AM
Inst Id :P5

Sample Name: CCB122 Acquired: 01/06/2025 18:08:34 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v80) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB122 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.001873	.0029076	-.001185	.0026773	-.001083	.0470363	.0005417
Stddev	.002842	.0015418	.003178	.0084987	.001584	.0658454	.0049514
%RSD	151.7546	53.02524	268.2010	317.4326	146.3497	139.9885	914.1028
#1	-.000358	.0013523	.002246	.0087605	-.002781	.1170688	-.004833
#2	-.000109	.0044355	-.004029	.0063046	.000356	-.013616	.004918
#3	-.005151	.0029351	-.001772	-.007033	-.000823	.037656	.001539

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000205	-.000051	-.046488	-.000430	-.000167	-.021790	-.036769
Stddev	.000162	.000056	.048148	.000639	.000077	.005982	.048917
%RSD	78.62896	109.2317	103.5712	148.6393	46.05226	27.45365	133.0386
#1	-.000298	.000013	-.092278	-.000640	-.000231	-.021845	-.033342
#2	-.000300	-.000091	.003715	.000288	-.000188	-.027745	-.087310
#3	-.000019	-.000074	-.050902	-.000938	-.000082	-.015781	.010345

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0031196	-.147272	.0003728	-.000387	-.098882	-.001328	.0036937
Stddev	.0040412	.012390	.0003905	.001236	.031833	.023488	.0006335
%RSD	129.5416	8.413344	104.7511	319.6109	32.19251	1769.290	17.15077
#1	.0046728	-.138069	.0005757	-.000775	-.065261	-.009988	.0037981
#2	-.001468	-.161360	-.000077	-.001381	-.102828	-.019256	.0042684
#3	.006154	-.142387	.000620	.000997	-.128558	.025261	.0030144

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1037696	.0044144	.0095132	.0002812	.0059446	-.002473	-.000402
Stddev	.1125253	.0018440	.0019938	.0001723	.0028035	.000497	.000306
%RSD	108.4376	41.77209	20.95783	61.29966	47.16013	20.08821	76.24692
#1	.0639149	.0048708	.0114744	.0002792	.0088002	-.002950	-.000050
#2	.0165958	.0023851	.0074884	.0004545	.0031963	-.001958	-.000613
#3	.2307980	.0059873	.0095767	.0001098	.0058374	-.002510	-.000542

Reviewed By:Mohan
On:1/8/2025 7:28:17 AM
Inst Id :P5

Sample Name: CCB122 Acquired: 01/06/2025 18:08:34 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v80) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB122 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.0080287	.0002200	.0011716
Stddev	.0026980	.0001583	.0063879
%RSD	33.60484	71.94484	545.2165
#1	.0086409	.0001186	-.006187
#2	.0050771	.0004024	.005289
#3	.0103680	.0001390	.004413

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1592.776	14186.58	1294.895	1206.862	1741.417
Stddev	2.702	16.68	13.951	4.532	1.919
%RSD	.1696525	.1176049	1.077347	.3754800	.1101995
#1	1593.614	14199.26	1278.881	1201.630	1741.533
#2	1589.755	14192.81	1301.396	1209.516	1739.442
#3	1594.961	14167.68	1304.409	1209.441	1743.275

Reviewed By:Mohan
On:1/8/2025 7:28:17 AM
Inst Id :P5

Sample Name: P5127-04DL3X5 Acquired: 01/06/2025 18:12:35 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v80) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMB1 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0065381	.0199973	.0448455	-.036943	-.000826	5.156639	.0571956
Stddev	.0019471	.0031647	.0037820	.003847	.002581	.061561	.0024246
%RSD	29.78004	15.82547	8.433325	10.41439	312.4476	1.193821	4.239186
#1	.0060501	.0232850	.0405013	-.032652	-.000654	5.135663	.0545674
#2	.0048814	.0169720	.0466312	-.040085	.001664	5.108307	.0576742
#3	.0086827	.0197348	.0474040	-.038091	-.003489	5.225946	.0593453

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0005251	.0004325	115.6794	.0112231	.0372487	.0058177	15.52325
Stddev	.0001340	.0000632	.7280	.0009222	.0003489	.0101759	.06122
%RSD	25.51693	14.61686	.6293527	8.217149	.9365494	174.9131	.3944011
#1	.0005586	.0004107	115.5768	.0110759	.0375311	.0084883	15.47483
#2	.0003776	.0005037	115.0081	.0103833	.0373563	-.005427	15.50285
#3	.0006393	.0003830	116.4533	.0122100	.0368587	.014392	15.59207

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7459508	20.72853	.0188675	-.001498	-.044274	.0127154	.0496320
Stddev	.0054707	.28819	.0006591	.001936	.018941	.0113021	.0007075
%RSD	.7333840	1.390299	3.493165	129.2265	42.78050	88.88531	1.425453
#1	.7424915	20.55357	.0184844	.000527	-.022957	.0191102	.0503638
#2	.7431029	20.57087	.0184895	-.001692	-.050697	-.000334	.0489516
#3	.7522579	21.06115	.0196285	-.003330	-.059168	.019370	.0495805

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.353336	.2793361	-.018632	.0059695	.2121747	1.220341	.0046693
Stddev	.275515	.0020900	.002982	.0003354	.0075447	.009513	.0012232
%RSD	20.35823	.7481921	16.00508	5.618947	3.555873	.7795106	26.19687
#1	1.038847	.2792793	-.021992	.0063268	.2115566	1.230894	.0035985
#2	1.468972	.2814539	-.017607	.0059206	.2200094	1.212425	.0060024
#3	1.552189	.2772751	-.016299	.0056613	.2049581	1.217704	.0044071

Reviewed By:Mohan
On:1/8/2025 7:28:17 AM
Inst Id :P5

Sample Name: P5127-04DL3X5 Acquired: 01/06/2025 18:12:35 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v80) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMB1 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.0372856	.0886439	-.007656
Stddev	.0129611	.0006793	.006413
%RSD	34.76165	.7663683	83.76843
#1	.0330755	.0880346	-.005215
#2	.0269530	.0893764	-.002822
#3	.0518283	.0885207	-.014931

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1593.716	14232.24	1302.812	1206.947	1640.309
Stddev	5.054	49.45	2.445	1.003	4.330
%RSD	.3170973	.3474385	.1876785	.0831407	.2640052
#1	1597.584	14249.50	1302.365	1207.122	1643.375
#2	1587.998	14176.48	1305.450	1205.868	1635.355
#3	1595.567	14270.75	1300.622	1207.852	1642.196

Reviewed By:Mohan
On:1/8/2025 7:28:17 AM
Inst Id :P5

Sample Name: P5127-05DL3X5 Acquired: 01/06/2025 18:16:31 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v80) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMB1D Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0058031	.0231557	.0379410	-.036197	-.001215	5.064011	.0557184
Stddev	.0043080	.0024211	.0025374	.002565	.002328	.059403	.0030034
%RSD	74.23566	10.45594	6.687825	7.085411	191.6373	1.173051	5.390380
#1	.0106958	.0215231	.0402877	-.035623	.001467	5.017042	.0559579
#2	.0025786	.0220065	.0382869	-.033968	-.002405	5.130787	.0585950
#3	.0041351	.0259374	.0352484	-.039000	-.002706	5.044203	.0526025

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0004266	.0003393	113.1323	.0102579	.0366351	-.008304	15.17359
Stddev	.0000439	.0001046	.2002	.0010015	.0005215	.013470	.04306
%RSD	10.30294	30.83168	.1769804	9.762924	1.423522	162.2106	.2837836
#1	.0004663	.0002185	112.9084	.0110110	.0365721	-.023096	15.14442
#2	.0003794	.0003991	113.1942	.0091214	.0361479	-.005069	15.22305
#3	.0004341	.0004004	113.2942	.0106412	.0371852	.003254	15.15331

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7310145	20.26540	.0183967	-.000585	-.059465	.0087355	.0504265
Stddev	.0050423	.05876	.0008945	.001242	.017752	.0069292	.0026116
%RSD	.6897673	.2899443	4.862492	212.3389	29.85212	79.32217	5.178972
#1	.7267961	20.32213	.0194069	.000247	-.066309	.0149493	.0490070
#2	.7365991	20.26927	.0177050	-.002012	-.039310	.0012633	.0488321
#3	.7296483	20.20481	.0180782	.000011	-.072776	.0099940	.0534404

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.571375	.2763292	-.022400	.0056718	.2087155	1.188691	.0052472
Stddev	.126935	.0005863	.000592	.0005470	.0030053	.003938	.0012357
%RSD	8.077946	.2121883	2.641261	9.644012	1.439911	.3312824	23.54972
#1	1.457679	.2756570	-.022657	.0062349	.2077279	1.191237	.0046908
#2	1.548115	.2765950	-.021723	.0056379	.2120904	1.184155	.0043875
#3	1.708332	.2767355	-.022820	.0051425	.2063283	1.190680	.0066633

Reviewed By:Mohan
On:1/8/2025 7:28:17 AM
Inst Id :P5

Sample Name: P5127-05DL3X5 Acquired: 01/06/2025 18:16:31 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v80) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMB1D Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.0332586	.0864377	-.001124
Stddev	.0011002	.0004206	.006782
%RSD	3.307951	.4866409	603.2709
#1	.0343772	.0859536	-.005584
#2	.0332206	.0867140	-.004470
#3	.0321779	.0866456	.006681

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1594.167	14064.88	1306.987	1181.490	1643.047
Stddev	10.369	474.02	11.400	39.782	6.814
%RSD	.6504123	3.370204	.8722014	3.367087	.4147133
#1	1583.332	14335.66	1298.634	1204.109	1635.217
#2	1603.996	14341.43	1302.352	1204.806	1647.632
#3	1595.174	13517.54	1319.974	1135.556	1646.293

Reviewed By:Mohan
On:1/8/2025 7:28:17 AM
Inst Id :P5

Sample Name: P5352-04 Acquired: 01/06/2025 18:20:28 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v80) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME2926 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1046895	-.031241	.2121403	.0823600	.0522001	108.1332	1.001455
Stddev	.0034028	.000337	.0012072	.0090247	.0021771	.7773	.005585
%RSD	3.250332	1.078648	.5690408	10.95765	4.170629	.7188003	.5576716
#1	.1012418	-.031623	.2128259	.0859875	.0540298	108.7853	1.006970
#2	.1080454	-.030988	.2107465	.0890065	.0527782	108.3414	1.001593
#3	.1047811	-.031110	.2128486	.0720859	.0497923	107.2731	.995803

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0090581	.0019338	415.1183	.2065114	.1788937	.1577013	244.0054
Stddev	.0001788	.0001225	2.3684	.0009646	.0010608	.0093375	1.8404
%RSD	1.973799	6.336716	.5705339	.4670763	.5929677	5.921007	.7542588
#1	.0091522	.0019136	417.1640	.2072229	.1777852	.1610725	245.2660
#2	.0088519	.0018226	415.6673	.2054135	.1798993	.1648851	244.8567
#3	.0091702	.0020652	412.5237	.2068976	.1789967	.1471464	241.8934

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.757941	181.8990	.3887091	-.023396	1.388411	.2627070	.4810930
Stddev	.026213	1.6803	.0003575	.000854	.023960	.0124564	.0060661
%RSD	.5509276	.9237563	.0919828	3.650033	1.725748	4.741562	1.260901
#1	4.773137	183.6281	.3883894	-.022418	1.415687	.2490198	.4797349
#2	4.773012	181.7969	.3886427	-.023990	1.370758	.2657219	.4758211
#3	4.727673	180.2721	.3890952	-.023782	1.378789	.2733793	.4877231

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	19.24089	4.722557	-.425334	.0174197	6.293005	12.95353	.0357908
Stddev	.23762	.011199	.002089	.0011265	.006477	.04498	.0001481
%RSD	1.234965	.2371425	.4911056	6.466549	.1029318	.3472786	.4137178
#1	19.25672	4.719358	-.426503	.0161718	6.286899	13.00546	.0356559
#2	19.47021	4.735008	-.422922	.0177259	6.292318	12.92843	.0357674
#3	18.99576	4.713306	-.426576	.0183615	6.299799	12.92670	.0359492

Reviewed By:Mohan
On:1/8/2025 7:28:17 AM
Inst Id :P5

Sample Name: P5352-04 Acquired: 01/06/2025 18:20:28 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v80) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME2926 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	1.850691	.3056052	.2495704
Stddev	.014377	.0029559	.0021169
%RSD	.7768338	.9672149	.8482307
#1	1.863528	.3078684	.2477511
#2	1.853389	.3066863	.2518939
#3	1.835156	.3022610	.2490662

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1709.710	15370.97	1440.227	1286.344	1506.707
Stddev	2.707	70.17	8.641	6.888	3.722
%RSD	.1583600	.4565011	.5999740	.5355091	.2470362
#1	1706.616	15290.83	1430.369	1280.341	1502.458
#2	1710.869	15421.39	1443.824	1293.865	1509.394
#3	1711.645	15400.68	1446.488	1284.828	1508.269

Reviewed By:Mohan
On:1/8/2025 7:28:17 AM
Inst Id :P5

Sample Name: P5352-05 Acquired: 01/06/2025 18:24:14 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v80) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME2926D Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1126290	-.033709	.2407535	.0889632	.0570421	110.1379	1.079600
Stddev	.0016562	.004576	.0058716	.0050777	.0024876	.3990	.006239
%RSD	1.470482	13.57496	2.438850	5.707663	4.360960	.3623157	.5778664
#1	.1141093	-.031285	.2456150	.0876690	.0594724	110.3573	1.086799
#2	.1108403	-.030854	.2424154	.0846578	.0545010	109.6773	1.076235
#3	.1129374	-.038987	.2342300	.0945628	.0571528	110.3791	1.075767

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0093990	.0021174	431.7361	.2029808	.1819377	.1757098	255.9432
Stddev	.0000439	.0001487	1.7128	.0018455	.0007155	.0216291	.5819
%RSD	.4671570	7.021485	.3967265	.9091788	.3932772	12.30956	.2273727
#1	.0094025	.0022463	433.3380	.2011616	.1811664	.1652627	256.3789
#2	.0093534	.0021512	429.9306	.2048514	.1820670	.1612874	255.2823
#3	.0094410	.0019548	431.9397	.2029295	.1825798	.2005792	256.1685

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.895269	193.2680	.3946074	-.023312	1.411358	.2882935	.5190884
Stddev	.017662	.3271	.0004511	.001197	.019080	.0095190	.0062918
%RSD	.3607935	.1692721	.1143059	5.132604	1.351919	3.301844	1.212091
#1	4.903458	193.4217	.3940878	-.021977	1.431552	.2793448	.5204541
#2	4.874999	193.4901	.3948977	-.023672	1.393632	.2982952	.5122259
#3	4.907350	192.8923	.3948368	-.024287	1.408889	.2872406	.5245852

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	19.52203	4.942937	-.443088	.0190283	6.171405	11.38173	.0342088
Stddev	.24414	.005992	.012079	.0011953	.014837	.13279	.0016528
%RSD	1.250611	.1212146	2.725986	6.281781	.2404130	1.166696	4.831592
#1	19.78764	4.948442	-.456861	.0203931	6.182798	11.53416	.0326007
#2	19.30740	4.943814	-.438103	.0185246	6.176790	11.31996	.0341228
#3	19.47106	4.936556	-.434299	.0181673	6.154628	11.29108	.0359030

Reviewed By:Mohan
On:1/8/2025 7:28:17 AM
Inst Id :P5

Sample Name: P5352-05 Acquired: 01/06/2025 18:24:14 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v80) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME2926D Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	1.847259	.3158069	.2487432
Stddev	.013815	.0016481	.0052591
%RSD	.7478399	.5218615	2.114248
#1	1.855198	.3171067	.2530248
#2	1.831307	.3139532	.2428730
#3	1.855271	.3163606	.2503316

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1685.209	15089.41	1406.104	1263.235	1478.999
Stddev	4.022	32.65	12.894	10.882	4.718
%RSD	.2386695	.2163734	.9169882	.8614282	.3190213
#1	1688.782	15115.69	1391.457	1268.470	1483.588
#2	1680.853	15052.86	1411.118	1270.509	1474.161
#3	1685.992	15099.67	1415.738	1250.724	1479.249

Reviewed By:Mohan
On:1/8/2025 7:28:17 AM
Inst Id :P5

Sample Name: P5352-04LX5 Acquired: 01/06/2025 18:28:00 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v80) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME2926L Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0176713	.0076529	.0503404	-.008862	.0102591	24.05231	.2353049
Stddev	.0005686	.0032787	.0019484	.004004	.0029281	.17458	.0042621
%RSD	3.217595	42.84214	3.870401	45.18702	28.54185	.7258180	1.811305
#1	.0171475	.0038673	.0525752	-.005999	.0110056	24.00265	.2341365
#2	.0175904	.0095053	.0489983	-.007148	.0127417	24.24633	.2400293
#3	.0182760	.0095861	.0494477	-.013438	.0070300	23.90794	.2317488

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0020037	.0003459	95.09863	.0446776	.0542192	.0248071	56.16670
Stddev	.0000252	.0001974	.46816	.0003381	.0009946	.0070416	.24020
%RSD	1.257581	57.05138	.4922915	.7567656	1.834338	28.38533	.4276555
#1	.0019845	.0003570	95.43159	.0443204	.0539538	.0254905	56.28353
#2	.0020322	.0005375	95.30097	.0449927	.0533843	.0314822	56.32613
#3	.0019944	.0001433	94.56333	.0447195	.0553196	.0174488	55.89043

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.087945	43.35543	.0776063	-.004871	.1245642	.0596469	.1122886
Stddev	.005864	.23869	.0005867	.000996	.0043646	.0161517	.0000151
%RSD	.5390130	.5505371	.7559578	20.44216	3.503864	27.07888	.0134435
#1	1.086590	43.39410	.0770289	-.003768	.1255627	.0488063	.1123047
#2	1.094368	43.09978	.0782018	-.005704	.1283430	.0519241	.1122747
#3	1.082877	43.57243	.0775881	-.005139	.1197869	.0782102	.1122865

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.065637	.9318790	-.108778	.0088538	1.168908	2.522981	.0083219
Stddev	.105423	.0020297	.003009	.0014994	.006075	.018231	.0009545
%RSD	2.593016	.2178060	2.765751	16.93544	.5197393	.7226063	11.46922
#1	4.047528	.9305116	-.110032	.0075036	1.167317	2.541067	.0072402
#2	3.970442	.9342111	-.105346	.0104676	1.175621	2.523267	.0090454
#3	4.178942	.9309142	-.110957	.0085902	1.163787	2.504608	.0086802

Reviewed By:Mohan
On:1/8/2025 7:28:17 AM
Inst Id :P5

Sample Name: P5352-04LX5 Acquired: 01/06/2025 18:28:00 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v80) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME2926L Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.4005496	.0681743	.0445608
Stddev	.0006989	.0002929	.0054785
%RSD	.1744935	.4295736	12.29433
#1	.4009493	.0682657	.0389507
#2	.4009570	.0684106	.0498973
#3	.3997426	.0678467	.0448343

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1598.013	14268.06	1308.392	1205.299	1621.956
Stddev	5.924	77.96	3.682	2.217	5.234
%RSD	.3707063	.5463822	.2814026	.1839422	.3226769
#1	1602.200	14351.61	1304.182	1206.609	1626.462
#2	1600.603	14255.30	1309.989	1202.739	1623.190
#3	1591.235	14197.26	1311.006	1206.549	1616.215

Reviewed By:Mohan
On:1/8/2025 7:28:17 AM
Inst Id :P5

Sample Name: P5352-06 Acquired: 01/06/2025 18:31:52 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v80) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME2926S Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1901709	.0481931	.2730305	.2279847	.2021466	110.0446	4.476215
Stddev	.0018131	.0037674	.0024891	.0090479	.0006972	.8728	.025379
%RSD	.9534305	7.817274	.9116496	3.968656	.3448797	.7931475	.5669709
#1	.1914819	.0440117	.2735160	.2175873	.2029275	111.0485	4.504244
#2	.1881017	.0492445	.2752411	.2322964	.2015867	109.4658	4.469610
#3	.1909290	.0513231	.2703345	.2340702	.2019257	109.6195	4.454792

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0951398	.0952670	420.4697	.5600998	1.117876	.5699848	249.7545
Stddev	.0006349	.0001768	2.3908	.0014871	.000588	.0102720	1.8477
%RSD	.6673276	.1856156	.5686107	.2655100	.0526273	1.802157	.7398138
#1	.0956750	.0951361	423.2151	.5591441	1.117229	.5761059	251.8875
#2	.0953062	.0954682	419.3477	.5593422	1.118019	.5581257	248.7290
#3	.0944383	.0951967	418.8462	.5618132	1.118379	.5757227	248.6470

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.598047	187.2470	1.330144	.0410144	1.361110	1.119920	1.297956
Stddev	.019774	.9548	.001661	.0010949	.010487	.009573	.006851
%RSD	.3532233	.5099076	.1249089	2.669467	.7704874	.8547705	.5278462
#1	5.620535	188.3341	1.331883	.0405555	1.359219	1.117142	1.293974
#2	5.583379	186.8624	1.328573	.0422641	1.372414	1.112044	1.305867
#3	5.590228	186.5446	1.329976	.0402237	1.351697	1.130575	1.294028

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	19.30762	4.807765	-.430849	.0184302	6.031493	11.03272	.0357399
Stddev	.33446	.009129	.002691	.0004596	.002559	.09079	.0024741
%RSD	1.732284	.1898861	.6244996	2.493926	.0424232	.8229102	6.922440
#1	19.66727	4.797290	-.431033	.0187979	6.029302	11.11246	.0329593
#2	19.24967	4.814024	-.433443	.0185779	6.030873	11.05179	.0376978
#3	19.00592	4.811982	-.428071	.0179149	6.034306	10.93391	.0365627

Reviewed By:Mohan
On:1/8/2025 7:28:17 AM
Inst Id :P5

Sample Name: P5352-06 Acquired: 01/06/2025 18:31:52 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v80) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME2926S Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	1.792022	.3047329	.2427642
Stddev	.010794	.0020089	.0049698
%RSD	.6023583	.6592325	2.047155
#1	1.803209	.3069138	.2403631
#2	1.781669	.3029580	.2484785
#3	1.791186	.3043269	.2394508

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1694.497	15227.54	1429.212	1281.504	1496.584
Stddev	5.533	67.12	7.826	3.777	3.301
%RSD	.3265180	.4407760	.5475921	.2947068	.2205552
#1	1696.548	15302.95	1421.742	1285.376	1498.251
#2	1688.231	15205.30	1428.542	1277.830	1492.783
#3	1698.711	15174.36	1437.352	1281.306	1498.719

Reviewed By:Mohan
On:1/8/2025 7:28:17 AM
Inst Id :P5

Sample Name: PB165787BL Acquired: 01/06/2025 18:35:38 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v80) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: PBS787 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.006644	.0016056	-.002030	.0025377	-.000200	.0275445
Stddev	.003375	.0007883	.003999	.0008105	.001012	.0384976
%RSD	50.79845	49.09568	197.0478	31.93840	505.8568	139.7651
#1	-.004829	.0007225	-.001098	.0021959	-.000768	.0087537
#2	-.010538	.0018559	.001422	.0034631	.000968	.0718289
#3	-.004565	.0022383	-.006412	.0019541	-.000800	.0020509

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001275	-.000208	-.000106	-.009764	-.000519	.0000846
Stddev	.0057111	.000175	.000106	.031295	.000412	.0000867
%RSD	4479.168	83.92627	99.95915	320.5060	79.35366	102.5069
#1	.0036285	-.000244	-.000227	-.035279	-.000868	.0000451
#2	.0032168	-.000363	-.000040	-.019168	-.000064	.0000246
#3	-.006463	-.000018	-.000050	.025154	-.000626	.0001840

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.021246	-.000874	.0037778	-.074470	.0006033	.0002507
Stddev	.015833	.052144	.0020343	.094555	.0004565	.0031145
%RSD	74.52181	5968.211	53.84812	126.9704	75.67391	1242.501
#1	-.039180	-.050794	.0016437	-.042542	.0004135	-.001815
#2	-.009201	-.005068	.0039949	-.000013	.0002723	.003833
#3	-.015358	.053240	.0056949	-.180856	.0011241	-.001266

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.254813	.0055719	-.002972	-.080961	.0020585	-.005068
Stddev	.024420	.0120322	.000350	.161416	.0013169	.002289
%RSD	9.583649	215.9422	11.77001	199.3751	63.97158	45.16040
#1	-.233887	.0072084	-.003074	-.000319	.0029795	-.006268
#2	-.281645	-.007195	-.003259	-.266808	.0005502	-.002429
#3	-.248908	.016702	-.002582	.024244	.0026458	-.006506

Reviewed By:Mohan
On:1/8/2025 7:28:17 AM
Inst Id :P5

Sample Name: PB165787BL Acquired: 01/06/2025 18:35:38 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v80) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: PBS787 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001206	-.000656	-.001458	-.002607	.0064015	.0001107
Stddev	.0003006	.001528	.000180	.000800	.0094265	.0001520
%RSD	249.2317	232.8088	12.33901	30.68727	147.2544	137.3426
#1	.0000485	-.001989	-.001307	-.002567	.0162879	.0002862
#2	-.000137	.001011	-.001657	-.003426	.0054022	.0000209
#3	.000451	-.000992	-.001411	-.001828	-.002486	.0000249

Elem	Li6707
Units	ppm
Avg	F -.015809
Stddev	.005478
%RSD	34.64782
#1	-.020996
#2	-.016351
#3	-.010081

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1633.199	14403.56	1301.097	1217.996	1791.171
Stddev	17.091	38.41	2.657	5.868	20.310
%RSD	1.046459	.2666503	.2042176	.4817370	1.133883
#1	1619.151	14385.89	1298.467	1221.834	1775.989
#2	1628.220	14377.17	1301.043	1211.241	1783.283
#3	1652.226	14447.62	1303.780	1220.912	1814.242

Reviewed By:Mohan
On:1/8/2025 7:28:17 AM
Inst Id :P5

Sample Name: PB165787BS Acquired: 01/06/2025 18:45:30 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v80) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: LCS787 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0150280	.0489069	.0159232	.0516700	.1010958	.4227689
Stddev	.0037105	.0035763	.0016466	.0047946	.0023927	.0880875
%RSD	24.69083	7.312360	10.34084	9.279271	2.366732	20.83585
#1	.0120328	.0475469	.0147715	.0461664	.1008371	.3637910
#2	.0138724	.0462101	.0178092	.0549422	.0988430	.5240257
#3	.0191788	.0529636	.0151889	.0539014	.1036073	.3804901

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3936302	.0103456	.0091506	9.908211	.0196025	.0956188
Stddev	.0008914	.0001208	.0000561	.109393	.0009267	.0003388
%RSD	.2264484	1.168009	.6135214	1.104066	4.727695	.3543466
#1	.3945398	.0102065	.0090874	9.905372	.0200274	.0958942
#2	.3935926	.0104244	.0091696	10.01900	.0202406	.0952405
#3	.3927582	.0104060	.0091947	9.80027	.0185395	.0957217

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0501005	.1720931	.0323302	10.58443	.0736202	.0188357
Stddev	.0080737	.0556671	.0016139	.16417	.0021358	.0020969
%RSD	16.11505	32.34708	4.991960	1.551006	2.901047	11.13259
#1	.0539111	.2334112	.0336042	10.70242	.0759896	.0212564
#2	.0408268	.1581339	.0305154	10.65393	.0718431	.0175777
#3	.0555637	.1247341	.0328711	10.39695	.0730278	.0176731

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	8.508532	.0990088	.1059738	9.520525	.0192527	F -.007081
Stddev	.064755	.0147763	.0007134	.171615	.0054731	.001792
%RSD	.7610578	14.92422	.6731788	1.802583	28.42749	25.31516
#1	8.517356	.1160676	.1054341	9.498083	.0135217	-.008707
#2	8.568422	.0907750	.1057046	9.702257	.0198116	-.005159
#3	8.439818	.0901838	.1067826	9.361234	.0244249	-.007376

Reviewed By:Mohan
On:1/8/2025 7:28:17 AM
Inst Id :P5

Sample Name: PB165787BS Acquired: 01/06/2025 18:45:30 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v80) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: LCS787 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0184865	.1656854	F .4756227	F .0089083	.2013648	.2060831
Stddev	.0001427	.0012289	.0064807	.0029647	.0034098	.0010462
%RSD	.7720870	.7416911	1.362568	33.27961	1.693363	.5076581
#1	.0183285	.1664786	.4793846	.0112430	.2002326	.2054454
#2	.0186060	.1642699	.4793441	.0055728	.1986650	.2072905
#3	.0185251	.1663078	.4681395	.0099093	.2051967	.2055135

Elem	Li6707
Units	ppm
Avg	F .0121893
Stddev	.0133637
%RSD	109.6349
#1	.0207450
#2	-.003210
#3	.019033

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1586.904	14122.22	1277.272	1196.777	1715.925
Stddev	3.042	27.34	12.279	4.355	2.248
%RSD	.1916721	.1935668	.9613841	.3639102	.1310313
#1	1588.612	14152.06	1274.825	1197.035	1716.262
#2	1588.708	14116.23	1266.401	1200.997	1717.986
#3	1583.392	14098.38	1290.591	1192.298	1713.527

Reviewed By:Mohan
On:1/8/2025 7:28:17 AM
Inst Id :P5

Sample Name: P5121-10A Acquired: 01/06/2025 18:49:26 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v80) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHM51A Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2089615	.0318951	4.970771	.1866943	.1303419	71.37397
Stddev	.0019771	.0013254	.006549	.0064945	.0022747	.24721
%RSD	.9461299	4.155483	.1317521	3.478675	1.745161	.3463528
#1	.2086316	.0309953	4.972330	.1938793	.1286917	71.47768
#2	.2110828	.0312728	4.963583	.1849619	.1329367	71.55243
#3	.2071702	.0334171	4.976400	.1812417	.1293974	71.09180

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.487670	.0106341	.0184160	348.0489	.1852899	.1415402
Stddev	.009718	.0002107	.0001326	.9566	.0013052	.0010902
%RSD	.3906407	1.981531	.7201950	.2748547	.7044215	.7702349
#1	2.478255	.0104409	.0184405	347.1318	.1846239	.1427064
#2	2.497665	.0108588	.0182728	349.0407	.1844520	.1405466
#3	2.487090	.0106026	.0185347	347.9741	.1867938	.1413675

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7899904	192.5374	7.910321	107.5546	.2239307	.0024810
Stddev	.0141963	.6438	.028907	.4304	.0005511	.0007856
%RSD	1.797015	.3343710	.3654281	.4001388	.2460833	31.66317
#1	.7754105	191.9533	7.895298	107.0807	.2235274	.0032741
#2	.8037691	193.2277	7.943645	107.9211	.2245586	.0024658
#3	.7907915	192.4313	7.892019	107.6621	.2237061	.0017032

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.043514	.2000802	3.957860	9.544338	F 18.66235	-.298546
Stddev	.017526	.0212027	.007961	.079632	.01672	.006266
%RSD	.8576438	10.59712	.2011372	.8343371	.0895728	2.098791
#1	2.062510	.2095434	3.966416	9.534681	18.67156	-.302084
#2	2.040062	.1757938	3.956493	9.628358	18.64306	-.302242
#3	2.027971	.2149035	3.950672	9.469975	18.67244	-.291311

Reviewed By:Mohan
On:1/8/2025 7:28:17 AM
Inst Id :P5

Sample Name: P5121-10A Acquired: 01/06/2025 18:49:26 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v80) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHM51A Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0135408	5.670497	10.07598	.3325941	1.142480	.6479308
Stddev	.0001646	.016048	.03624	.0027521	.005103	.0010439
%RSD	1.215526	.2830145	.3596568	.8274700	.4466810	.1611106
#1	.0133612	5.656612	10.10503	.3310953	1.140117	.6475661
#2	.0136845	5.666812	10.08754	.3309166	1.148337	.6491081
#3	.0135765	5.688067	10.03538	.3357703	1.138987	.6471181

Elem	Li6707
Units	ppm
Avg	.0792506
Stddev	.0052534
%RSD	6.628892
#1	.0779768
#2	.0850237
#3	.0747511

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1848.446	16646.88	1532.707	1389.623	1533.274
Stddev	.286	54.62	10.623	6.927	1.515
%RSD	.0154922	.3280963	.6930966	.4984491	.0987841
#1	1848.704	16586.61	1520.926	1381.699	1531.708
#2	1848.138	16693.10	1535.636	1392.643	1533.382
#3	1848.495	16660.91	1541.558	1394.526	1534.731

Reviewed By:Mohan
On:1/8/2025 7:28:17 AM
Inst Id :P5

Sample Name: P5127-04A Acquired: 01/06/2025 18:53:12 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v80) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMB1A Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0342844	.0199841	.2000406	.6029397	.0109014	23.63573	.2612766
Stddev	.0051867	.0015726	.0010915	.0042509	.0030540	.31821	.0030648
%RSD	15.12845	7.869012	.5456462	.7050359	28.01495	1.346289	1.172994
#1	.0402563	.0198156	.1988614	.6041040	.0106812	23.87589	.2578257
#2	.0316920	.0216341	.2002448	.5982279	.0079634	23.27482	.2636813
#3	.0309051	.0185025	.2010156	.6064872	.0140595	23.75647	.2623228

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0029213	.0021578	529.6075	.0481101	.0801039	.0221515	71.49669
Stddev	.0001094	.0001719	4.7465	.0005651	.0007566	.0064768	.86474
%RSD	3.743358	7.964787	.8962292	1.174643	.9444894	29.23867	1.209485
#1	.0029016	.0023535	531.7558	.0474845	.0809350	.0146887	71.90381
#2	.0028232	.0020883	524.1667	.0485837	.0799215	.0254606	70.50353
#3	.0030392	.0020316	532.9000	.0482620	.0794551	.0263053	72.08273

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.384516	92.35143	.0848972	.0134412	.5620738	.0491015	.2363570
Stddev	.035336	1.27112	.0006082	.0020314	.0291205	.0035618	.0014131
%RSD	1.044053	1.376391	.7164435	15.11337	5.180910	7.254010	.5978516
#1	3.402052	93.32489	.0850674	.0113686	.5956273	.0523897	.2377517
#2	3.343841	90.91337	.0842220	.0154288	.5472028	.0453179	.2349263
#3	3.407654	92.81601	.0854023	.0135260	.5433915	.0495968	.2363929

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.307164	1.433673	-.083543	.0063788	1.019117	5.614455	.0162455
Stddev	.187691	.007916	.002747	.0015114	.005983	.080914	.0002575
%RSD	2.568592	.5521230	3.288135	23.69471	.5871168	1.441170	1.585204
#1	7.137602	1.430466	-.086712	.0052408	1.014679	5.695879	.0161543
#2	7.508840	1.442689	-.082071	.0080937	1.025922	5.534062	.0160459
#3	7.275051	1.427864	-.081846	.0058019	1.016751	5.613424	.0165362

Reviewed By:Mohan
On:1/8/2025 7:28:17 AM
Inst Id :P5

Sample Name: P5127-04A Acquired: 01/06/2025 18:53:12 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v80) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMB1A Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.1432189	.4139692	.0307143
Stddev	.0040362	.0045862	.0025541
%RSD	2.818207	1.107866	8.315837
#1	.1478513	.4156513	.0328478
#2	.1404599	.4087795	.0314110
#3	.1413453	.4174769	.0278841

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1614.965	14537.33	1338.337	1220.207	1523.200
Stddev	4.120	55.26	11.435	2.173	3.306
%RSD	.2551027	.3800939	.8544345	.1780938	.2170104
#1	1619.687	14508.78	1331.563	1218.020	1526.359
#2	1613.098	14601.02	1351.540	1220.235	1519.765
#3	1612.108	14502.20	1331.909	1222.366	1523.475

Reviewed By:Mohan
On:1/8/2025 7:28:17 AM
Inst Id :P5

Sample Name: P5122-19 Acquired: 01/06/2025 18:57:03 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v80) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMD4 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1704237	-.019262	3.955959	.0814538	.0533118	63.27857
Stddev	.0052753	.005113	.011952	.0073695	.0038731	.31185
%RSD	3.095424	26.54545	.3021178	9.047456	7.265025	.4928277
#1	.1712164	-.014061	3.954835	.0888464	.0576517	62.93926
#2	.1752578	-.024283	3.944610	.0741076	.0520771	63.55264
#3	.1647969	-.019442	3.968434	.0814076	.0502066	63.34383

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.638252	.0072348	.0135313	175.4698	.1744480	.1152089
Stddev	.007415	.0001163	.0000720	.5730	.0014565	.0001533
%RSD	.2810387	1.608037	.5317473	.3265319	.8349114	.1330491
#1	2.642751	.0072156	.0135851	175.6487	.1744425	.1151869
#2	2.642312	.0073595	.0134496	175.9319	.1759072	.1150678
#3	2.629695	.0071292	.0135593	174.8287	.1729943	.1153720

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4761851	211.7201	10.07995	36.83963	.2123531	-.016838
Stddev	.0032334	.7141	.02302	.27414	.0013269	.002116
%RSD	.6790310	.3373045	.2283556	.7441462	.6248643	12.56579
#1	.4772767	210.8955	10.05447	36.72699	.2129490	-.014555
#2	.4725472	212.1258	10.09925	37.15215	.2108327	-.017226
#3	.4787315	212.1391	10.08612	36.63976	.2132776	-.018733

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8845267	.2149496	3.045299	5.619835	F 16.68515	-.407175
Stddev	.0160286	.0068719	.011972	.479837	.01899	.007938
%RSD	1.812112	3.196972	.3931384	8.538278	.1138261	1.949595
#1	.9006302	.2105091	3.051762	5.206460	16.69352	-.411422
#2	.8685740	.2228649	3.031484	5.507015	16.66341	-.412086
#3	.8843758	.2114747	3.052651	6.146029	16.69851	-.398016

Reviewed By:Mohan
On:1/8/2025 7:28:17 AM
Inst Id :P5

Sample Name: P5122-19 Acquired: 01/06/2025 18:57:03 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v80) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMD4 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0204066	4.121256	9.002709	.2137872	.8696957	.4683834
Stddev	.0007474	.013328	.157521	.0004479	.0016205	.0022803
%RSD	3.662387	.3234005	1.749709	.2094833	.1863281	.4868408
#1	.0209080	4.136341	9.122425	.2132900	.8688127	.4659927
#2	.0195476	4.111075	9.061443	.2141589	.8715659	.4705343
#3	.0207641	4.116352	8.824260	.2139127	.8687084	.4686231

Elem	Li6707
Units	ppm
Avg	.0761684
Stddev	.0027983
%RSD	3.673821
#1	.0793414
#2	.0740531
#3	.0751107

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1923.789	17123.27	1566.101	1443.289	1649.034
Stddev	6.198	85.75	22.056	9.117	5.008
%RSD	.3221791	.5007546	1.408307	.6316667	.3037120
#1	1927.262	17211.46	1557.646	1453.278	1650.752
#2	1927.472	17040.20	1549.524	1441.174	1652.957
#3	1916.633	17118.16	1591.133	1435.416	1643.392

Reviewed By:Mohan
On:1/8/2025 7:28:17 AM
Inst Id :P5

Sample Name: P5124-01 Acquired: 01/06/2025 19:00:50 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v80) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHM70 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1165152	-.010466	2.172135	.0529371	.0399910	48.89137
Stddev	.0015509	.003520	.028089	.0005147	.0020913	.26625
%RSD	1.331080	33.63214	1.293156	.9723289	5.229445	.5445746
#1	.1162502	-.007044	2.199274	.0534866	.0377300	48.70283
#2	.1151139	-.010277	2.143184	.0524662	.0403872	48.77533
#3	.1181816	-.014076	2.173947	.0528586	.0418559	49.19595

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.017205	.0057719	.0041911	172.0821	.5605303	.5167015
Stddev	.003397	.0001776	.0001787	.8908	.0094549	.0073923
%RSD	.3339823	3.076537	4.264228	.5176390	1.686778	1.430671
#1	1.015436	.0056484	.0041360	171.0892	.5652368	.5238374
#2	1.021122	.0059755	.0040463	172.8110	.5667084	.5090771
#3	1.015057	.0056920	.0043908	172.3462	.5496459	.5171899

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4879466	155.6512	4.778811	34.41046	.7668337	-.014091
Stddev	.0157940	.7558	.019073	.22125	.0072135	.001496
%RSD	3.236836	.4855744	.3991069	.6429821	.9406860	10.61516
#1	.4710186	154.8441	4.756991	34.16918	.7740183	-.014808
#2	.4905340	155.7670	4.787142	34.60384	.7595917	-.015094
#3	.5022872	156.3424	4.792302	34.45835	.7668912	-.012372

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4755505	.1486838	1.608074	5.286015	F 12.41496	-.289091
Stddev	.0200553	.0098544	.046500	.072469	.15231	.000685
%RSD	4.217272	6.627735	2.891667	1.370948	1.226806	.2371085
#1	.4970309	.1591751	1.636230	5.266205	12.55293	-.289861
#2	.4723043	.1472538	1.633590	5.366329	12.25153	-.288867
#3	.4573164	.1396226	1.554402	5.225511	12.44043	-.288546

Reviewed By:Mohan
On:1/8/2025 7:28:17 AM
Inst Id :P5

Sample Name: P5124-01 Acquired: 01/06/2025 19:00:50 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v80) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHM70 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0701073	4.680598	7.919602	.2061329	.7828337	.2048531
Stddev	.0011320	.053270	.027836	.0037139	.0026445	.0005078
%RSD	1.614664	1.138094	.3514780	1.801698	.3378154	.2478699
#1	.0709437	4.731788	7.891991	.2103901	.7803487	.2048293
#2	.0688192	4.625468	7.947657	.2044522	.7825394	.2043576
#3	.0705590	4.684538	7.919157	.2035565	.7856131	.2053723

Elem	Li6707
Units	ppm
Avg	.0660582
Stddev	.0025987
%RSD	3.933953
#1	.0675029
#2	.0676135
#3	.0630582

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1843.554	16569.70	1500.259	1390.198	1679.291
Stddev	18.796	266.82	10.218	30.205	20.473
%RSD	1.019559	1.610308	.6810774	2.172740	1.219131
#1	1825.466	16438.19	1512.037	1376.649	1659.809
#2	1862.986	16394.15	1494.961	1369.139	1700.629
#3	1842.210	16876.75	1493.777	1424.806	1677.436

Reviewed By:Mohan
On:1/8/2025 7:28:17 AM
Inst Id :P5

Sample Name: P5124-02 Acquired: 01/06/2025 19:04:38 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v80) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHM71 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1456301	-.010784	2.498940	.0521765	.0394835	55.73748
Stddev	.0038173	.001950	.008000	.0022832	.0036586	.42354
%RSD	2.621212	18.08500	.3201180	4.375845	9.266041	.7598815
#1	.1412593	-.008800	2.494044	.0517935	.0437080	56.04448
#2	.1483089	-.010852	2.494606	.0546270	.0373679	55.91367
#3	.1473221	-.012699	2.508172	.0501091	.0373745	55.25428

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.136474	.0059631	.0051796	343.6026	.3809606	.1496388
Stddev	.011311	.0002031	.0000583	3.2552	.0012505	.0009552
%RSD	.9952888	3.406053	1.125523	.9473786	.3282510	.6383605
#1	1.141975	.0057323	.0051170	346.1721	.3795207	.1486663
#2	1.143983	.0061147	.0051893	344.6938	.3815865	.1505758
#3	1.123465	.0060423	.0052324	339.9420	.3817746	.1496744

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5451490	171.8574	5.883245	40.17312	.7784700	-.017089
Stddev	.0106734	1.1355	.043432	.19627	.0024751	.001057
%RSD	1.957879	.6607140	.7382355	.4885534	.3179444	6.187038
#1	.5540642	172.9897	5.928880	40.36448	.7777971	-.018304
#2	.5480610	171.8636	5.878440	40.18260	.7764009	-.016376
#3	.5333219	170.7188	5.842415	39.97229	.7812119	-.016588

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7122891	.1774132	1.693446	6.318270	F 11.60536	-.316359
Stddev	.0206005	.0219913	.014427	.083010	.03559	.004617
%RSD	2.892149	12.39550	.8519571	1.313804	.3066612	1.459542
#1	.6934200	.2019835	1.692734	6.329687	11.58486	-.312010
#2	.7091800	.1706817	1.708217	6.394980	11.58477	-.315862
#3	.7342674	.1595745	1.679388	6.230143	11.64646	-.321205

Reviewed By:Mohan
On:1/8/2025 7:28:17 AM
Inst Id :P5

Sample Name: P5124-02 Acquired: 01/06/2025 19:04:38 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v80) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHM71 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0471858	3.706292	7.671332	.2436083	.7802725	.4147986
Stddev	.0001812	.012951	.027476	.0028767	.0055244	.0035337
%RSD	.3840894	.3494218	.3581624	1.180859	.7080096	.8519043
#1	.0469792	3.695187	7.690106	.2432707	.7818332	.4165704
#2	.0473181	3.703173	7.684093	.2409153	.7848486	.4170958
#3	.0472601	3.720518	7.639796	.2466388	.7741356	.4107295

Elem	Li6707
Units	ppm
Avg	.0880467
Stddev	.0100374
%RSD	11.40010
#1	.0814386
#2	.0831046
#3	.0995969

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1827.745	16313.32	1517.268	1370.189	1591.173
Stddev	2.800	27.63	9.940	12.454	1.850
%RSD	.1531905	.1693522	.6551421	.9089128	.1162869
#1	1824.815	16320.59	1508.592	1368.601	1592.610
#2	1830.394	16282.79	1515.098	1358.604	1591.823
#3	1828.027	16336.59	1528.114	1383.360	1589.085

Reviewed By:Mohan
On:1/8/2025 7:28:17 AM
Inst Id :P5

Sample Name: P5124-03 Acquired: 01/06/2025 19:08:24 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v80) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHM72 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1896879	-.029951	4.564510	.0904073	.0617579	54.09163
Stddev	.0010651	.004366	.087736	.0045445	.0053904	.57708
%RSD	.5614960	14.57657	1.922138	5.026726	8.728226	1.066851
#1	.1906830	-.025309	4.523778	.0864231	.0584546	53.50282
#2	.1898161	-.033975	4.665209	.0953570	.0588411	54.11587
#3	.1885645	-.030568	4.504544	.0894419	.0679782	54.65621

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.539803	.0078960	.0062232	155.6116	1.082493	.2153706
Stddev	.007229	.0001525	.0002022	1.0847	.003179	.0050022
%RSD	.4694958	1.930846	3.248954	.6970593	.2936929	2.322616
#1	1.532460	.0080485	.0061716	154.3671	1.083361	.2123009
#2	1.540035	.0078959	.0064462	156.1114	1.085149	.2211428
#3	1.546913	.0077436	.0060519	156.3562	1.078970	.2126681

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7382017	213.2544	4.846535	35.07784	2.022301	-.019581
Stddev	.0118897	1.0157	.029078	.46028	.047147	.000520
%RSD	1.610632	.4762767	.5999652	1.312169	2.331335	2.657076
#1	.7247498	212.2315	4.814402	34.82439	2.000551	-.019805
#2	.7425505	213.2690	4.854167	34.79998	2.076397	-.018987
#3	.7473047	214.2627	4.871035	35.60913	1.989956	-.019952

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7969728	.2159908	2.191471	4.540659	F 12.45235	-.412884
Stddev	.0140588	.0048891	.021797	.148565	.27517	.002202
%RSD	1.764020	2.263549	.9946059	3.271873	2.209821	.5334048
#1	.7825485	.2106404	2.169369	4.483253	12.30894	-.410678
#2	.8106350	.2202258	2.212949	4.709362	12.76961	-.415083
#3	.7977349	.2171061	2.192095	4.429362	12.27850	-.412890

Reviewed By:Mohan
On:1/8/2025 7:28:17 AM
Inst Id :P5

Sample Name: P5124-03 Acquired: 01/06/2025 19:08:24 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v80) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHM72 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1009387	4.097214	8.134583	.2547416	1.295202	.2521246
Stddev	.0022623	.087559	.042764	.0055708	.016890	.0036893
%RSD	2.241271	2.137036	.5257074	2.186825	1.304017	1.463285
#1	.0996815	4.049219	8.130167	.2516843	1.280553	.2482541
#2	.1035504	4.198276	8.094199	.2611716	1.291377	.2525184
#3	.0995842	4.044148	8.179384	.2513690	1.313676	.2556012

Elem	Li6707
Units	ppm
Avg	.0616240
Stddev	.0047330
%RSD	7.680475
#1	.0562300
#2	.0650828
#3	.0635591

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1803.608	16267.79	1490.681	1360.449	1643.193
Stddev	32.422	88.89	4.548	13.063	33.700
%RSD	1.797602	.5464185	.3050869	.9602188	2.050860
#1	1824.812	16276.05	1492.776	1372.906	1664.462
#2	1766.286	16175.06	1493.804	1346.854	1604.338
#3	1819.726	16352.26	1485.463	1361.588	1660.779

Reviewed By:Mohan
On:1/8/2025 7:28:17 AM
Inst Id :P5

Sample Name: P5124-04 Acquired: 01/06/2025 19:12:11 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v80) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHM73 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2047711	-.039140	3.181729	.1261444	.0630465	59.05511
Stddev	.0019706	.005523	.003155	.0055435	.0022432	.45068
%RSD	.9623207	14.11108	.0991715	4.394547	3.558012	.7631549
#1	.2057702	-.032763	3.178516	.1215758	.0605869	58.71373
#2	.2025011	-.042344	3.181848	.1245460	.0649796	58.88564
#3	.2060419	-.042314	3.184824	.1323115	.0635731	59.56596

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.605993	.0099967	.0069288	148.4730	.1617011	.1139589
Stddev	.010385	.0003044	.0000802	1.1242	.0004383	.0000273
%RSD	.6466392	3.045412	1.158160	.7571918	.2710767	.0239899
#1	1.603239	.0102692	.0069086	148.1974	.1620186	.1139477
#2	1.597262	.0096681	.0068606	147.5122	.1618838	.1139901
#3	1.617477	.0100528	.0070172	149.7094	.1612010	.1139390

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7078722	271.2282	5.853249	27.57764	.2299770	-.025221
Stddev	.0045733	2.7461	.037920	.16863	.0016156	.000768
%RSD	.6460575	1.012458	.6478485	.6114648	.7024912	3.045214
#1	.7108085	269.8918	5.829188	27.61632	.2290181	-.026020
#2	.7026029	269.4062	5.833597	27.39303	.2318422	-.024489
#3	.7102051	274.3867	5.896961	27.72356	.2290706	-.025153

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.001630	.2148964	2.196842	4.806213	F 12.05333	-.518785
Stddev	.027141	.0086137	.004976	.222501	.01002	.008576
%RSD	2.709663	4.008287	.2265209	4.629448	.0831342	1.653180
#1	1.012831	.2168319	2.201874	4.637032	12.06124	-.515724
#2	.970681	.2223777	2.191924	4.723351	12.05669	-.512159
#3	1.021377	.2054797	2.196727	5.058255	12.04206	-.528472

Reviewed By:Mohan
On:1/8/2025 7:28:17 AM
Inst Id :P5

Sample Name: P5124-04 Acquired: 01/06/2025 19:12:11 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v80) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHM73 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0229712	3.653515	8.226649	.2585926	1.274636	.3344978
Stddev	.0007325	.005113	.137038	.0025638	.003035	.0012436
%RSD	3.188602	.1399350	1.665787	.9914301	.2381117	.3717938
#1	.0221501	3.649647	8.153869	.2558798	1.273195	.3344196
#2	.0232062	3.651586	8.141355	.2589229	1.272590	.3332951
#3	.0235573	3.659311	8.384722	.2609753	1.278123	.3357787

Elem	Li6707
Units	ppm
Avg	.0669062
Stddev	.0041437
%RSD	6.193326
#1	.0697727
#2	.0621551
#3	.0687907

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1924.927	17153.07	1575.499	1438.710	1670.665
Stddev	9.585	67.15	22.560	7.302	6.100
%RSD	.4979457	.3914984	1.431946	.5075437	.3651518
#1	1925.851	17080.81	1579.609	1430.289	1668.900
#2	1934.018	17213.56	1595.722	1443.290	1677.453
#3	1914.914	17164.83	1551.166	1442.550	1665.641

Reviewed By:Mohan
On:1/8/2025 7:28:17 AM
Inst Id :P5

Sample Name: P5124-05 Acquired: 01/06/2025 19:15:59 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v80) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHM74 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1860825	-.014458	1.541481	.1159609	.0506492	61.96652
Stddev	.0003967	.003002	.007798	.0049512	.0010824	.21769
%RSD	.2131681	20.76568	.5058802	4.269713	2.137141	.3512968
#1	.1865075	-.015351	1.537701	.1190079	.0518656	62.14782
#2	.1857220	-.011110	1.550448	.1186267	.0497920	61.72509
#3	.1860181	-.016912	1.536293	.1102480	.0502900	62.02665

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.225811	.0062493	.0095155	145.0868	.2505115	.1379733
Stddev	.013581	.0000667	.0001698	.5761	.0013595	.0003600
%RSD	.6101710	1.066643	1.784813	.3970973	.5426898	.2609123
#1	2.239585	.0062240	.0093212	145.7145	.2499858	.1379292
#2	2.212431	.0061990	.0095900	144.5821	.2494933	.1383534
#3	2.225417	.0063249	.0096354	144.9638	.2520554	.1376375

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4912999	235.4255	19.18652	27.23602	.2722056	-.019048
Stddev	.0071489	1.5183	.13046	.11278	.0011051	.000746
%RSD	1.455091	.6449230	.6799691	.4140994	.4059895	3.913970
#1	.4991720	236.3195	19.27248	27.34487	.2711236	-.018684
#2	.4895151	233.6724	19.03640	27.11967	.2721608	-.018555
#3	.4852125	236.2846	19.25067	27.24353	.2733325	-.019906

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4565935	.1929287	1.113998	6.110733	F 15.79090	-.463130
Stddev	.0035403	.0031384	.006382	.198509	.01775	.007724
%RSD	.7753606	1.626730	.5729299	3.248523	.1124360	1.667872
#1	.4579071	.1965408	1.116281	5.957462	15.81076	-.470252
#2	.4525842	.1908687	1.118924	6.334972	15.77655	-.454919
#3	.4592891	.1913768	1.106788	6.039767	15.78540	-.464218

Reviewed By:Mohan
On:1/8/2025 7:28:17 AM
Inst Id :P5

Sample Name: P5124-05 Acquired: 01/06/2025 19:15:59 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v80) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHM74 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0263427	3.675200	8.556677	.1314893	.7228829	.1628316
Stddev	.0004910	.001807	.120670	.0024425	.0027397	.0007985
%RSD	1.863856	.0491653	1.410244	1.857606	.3789943	.4903792
#1	.0268411	3.675187	8.658294	.1292427	.7197356	.1636358
#2	.0258594	3.677014	8.423305	.1311359	.7241794	.1628202
#3	.0263277	3.673400	8.588434	.1340893	.7247336	.1620389

Elem	Li6707
Units	ppm
Avg	.0767202
Stddev	.0007543
%RSD	.9832284
#1	.0775307
#2	.0765912
#3	.0760386

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2396.242	21269.16	1960.935	1784.503	1656.440
Stddev	2.603	98.22	17.731	9.454	3.489
%RSD	.1086350	.4618004	.9042174	.5297985	.2106426
#1	2398.099	21382.33	1947.216	1790.325	1659.966
#2	2397.361	21206.05	1980.956	1773.595	1656.366
#3	2393.266	21219.11	1954.632	1789.590	1652.988

Reviewed By:Mohan
On:1/8/2025 7:28:17 AM
Inst Id :P5

Sample Name: P5124-06 Acquired: 01/06/2025 19:19:46 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v80) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHM75 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1220474	-.030378	.3556957	.0918909	.0393033	75.67278
Stddev	.0039313	.002361	.0050529	.0029409	.0015590	.31539
%RSD	3.221154	7.771643	1.420580	3.200486	3.966520	.4167858
#1	.1246482	-.027939	.3525657	.0899552	.0379124	75.45293
#2	.1175249	-.030543	.3615250	.0952751	.0409885	75.53127
#3	.1239692	-.032652	.3529964	.0904423	.0390091	76.03414

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.799975	.0062619	.0072152	40.00145	.2527195	.1375743
Stddev	.008377	.0000667	.0001206	.11172	.0008813	.0008821
%RSD	.4653727	1.065385	1.671464	.2792870	.3487344	.6411422
#1	1.799046	.0061941	.0072544	39.96979	.2527264	.1385814
#2	1.792102	.0062642	.0073114	39.90899	.2535974	.1369394
#3	1.808778	.0063275	.0070799	40.12559	.2518348	.1372020

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2843689	178.5160	7.707921	25.48434	.2171856	-.016386
Stddev	.0046871	.8560	.038308	.11201	.0004457	.001569
%RSD	1.648238	.4794899	.4969921	.4395100	.2052241	9.573256
#1	.2896767	177.5873	7.673336	25.56859	.2176220	-.015949
#2	.2807990	178.6872	7.701331	25.35723	.2167311	-.015082
#3	.2826311	179.2734	7.749097	25.52720	.2172036	-.018127

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2608639	.1664841	.6340129	6.249560	F 10.12349	-.363109
Stddev	.0024510	.0036020	.0015211	.138317	.03908	.006485
%RSD	.9395673	2.163574	.2399167	2.213222	.3860760	1.786020
#1	.2636637	.1664178	.6329202	6.115859	10.16809	-.368479
#2	.2591061	.1701188	.6357502	6.392071	10.10717	-.355904
#3	.2598219	.1629157	.6333684	6.240749	10.09522	-.364945

Reviewed By:Mohan
On:1/8/2025 7:28:17 AM
Inst Id :P5

Sample Name: P5124-06 Acquired: 01/06/2025 19:19:46 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v80) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHM75 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0077258	2.270341	8.116763	.0304577	.6939903	-.011977
Stddev	.0007218	.010210	.044271	.0001907	.0031838	.000380
%RSD	9.343229	.4497064	.5454246	.6260806	.4587648	3.175022
#1	.0082483	2.282126	8.166802	.0305809	.6976666	-.011668
#2	.0069022	2.264169	8.082688	.0302381	.6921529	-.011862
#3	.0080269	2.264727	8.100799	.0305542	.6921513	-.012402

Elem	Li6707
Units	ppm
Avg	.0847586
Stddev	.0012822
%RSD	1.512736
#1	.0858192
#2	.0833337
#3	.0851229

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2695.730	24083.03	2196.571	2025.773	1655.996
Stddev	7.206	80.11	11.745	11.851	9.555
%RSD	.2673000	.3326293	.5347105	.5850340	.5770009
#1	2687.660	24116.56	2183.034	2031.947	1644.983
#2	2698.012	23991.60	2202.621	2012.109	1660.931
#3	2701.519	24140.92	2204.057	2033.262	1662.075

Reviewed By:Mohan
On:1/8/2025 7:28:17 AM
Inst Id :P5

Sample Name: P5124-07 Acquired: 01/06/2025 19:23:34 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v80) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHM76 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0735424	.0043123	.2652940	.0379577	.0289550	50.08630	.9449804
Stddev	.0034247	.0006431	.0057899	.0088483	.0018274	.14491	.0042063
%RSD	4.656757	14.91299	2.182449	23.31086	6.311056	.2893211	.4451199
#1	.0771443	.0036413	.2634015	.0383872	.0279322	49.99791	.9489642
#2	.0703279	.0043723	.2717933	.0465835	.0310647	50.25354	.9405823
#3	.0731550	.0049233	.2606871	.0289025	.0278681	50.00744	.9453946

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0046391	.0036557	526.1445	.1364739	.1281962	.2031839	153.5526
Stddev	.0000249	.0002311	.8944	.0011474	.0007193	.0066544	.4515
%RSD	.5368860	6.321131	.1699913	.8407265	.5611234	3.275041	.2940585
#1	.0046668	.0038915	525.3849	.1353339	.1273919	.2107781	153.0316
#2	.0046185	.0034296	525.9184	.1364592	.1284183	.1983734	153.8301
#3	.0046319	.0036460	527.1303	.1376285	.1287782	.2004003	153.7961

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.680635	122.6657	.1628635	-.014372	.7059929	.1400809	.4839472
Stddev	.007861	.6775	.0009196	.000890	.0020312	.0073033	.0019501
%RSD	.1383902	.5522818	.5646391	6.190937	.2877084	5.213604	.4029556
#1	5.681864	121.9362	.1628782	-.014761	.7047365	.1474987	.4839076
#2	5.687809	122.7861	.1619366	-.013354	.7049059	.1328978	.4820172
#3	5.672231	123.2749	.1637756	-.015002	.7083363	.1398462	.4859168

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.417502	6.510139	-.285824	.0084992	1.427247	7.593019	.0403629
Stddev	.095305	.015977	.001740	.0006155	.008199	.030615	.0024974
%RSD	1.485078	.2454230	.6088754	7.242511	.5744539	.4032034	6.187377
#1	6.407487	6.517741	-.287158	.0089431	1.419897	7.610277	.0424947
#2	6.517420	6.491779	-.286458	.0087579	1.425756	7.611109	.0376151
#3	6.327601	6.520895	-.283856	.0077965	1.436090	7.557671	.0409788

Reviewed By:Mohan
On:1/8/2025 7:28:17 AM
Inst Id :P5

Sample Name: P5124-07 Acquired: 01/06/2025 19:23:34 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v80) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHM76 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.6679070	.2278633	.0631598
Stddev	.0040218	.0007573	.0029798
%RSD	.6021544	.3323344	4.717935
#1	.6644976	.2284886	.0630485
#2	.6668810	.2280801	.0602371
#3	.6723425	.2270214	.0661937

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1917.242	17256.46	1595.922	1433.113	1489.802
Stddev	7.291	29.37	9.424	.679	5.131
%RSD	.3802850	.1701726	.5905072	.0474032	.3444284
#1	1915.425	17227.99	1590.660	1432.329	1485.331
#2	1911.032	17254.74	1590.304	1433.518	1488.670
#3	1925.270	17286.65	1606.802	1433.493	1495.405

Reviewed By:Mohan
On:1/8/2025 7:28:17 AM
Inst Id :P5

Sample Name: CCV123 Acquired: 01/06/2025 19:27:24 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v80) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV123 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.763202	4.654891	23.70032	4.700179	4.708693	389.5670
Stddev	.024473	.010492	.03396	.010445	.013119	1.3238
%RSD	.5138026	.2254023	.1432993	.2222162	.2786194	.3398207
#1	4.745431	4.664648	23.73723	4.705075	4.713017	388.7613
#2	4.791116	4.656234	23.69335	4.707277	4.719104	388.8449
#3	4.753059	4.643792	23.67038	4.688186	4.693957	391.0949

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.662115	.4862184	2.377535	390.6251	14.94489	2.414328
Stddev	.021551	.0026025	.001633	.7803	.11590	.004457
%RSD	.2230468	.5352435	.0686713	.1997493	.7755210	.1846241
#1	9.660972	.4869549	2.378362	390.4113	14.98827	2.418564
#2	9.641158	.4833270	2.378590	389.9740	15.03284	2.414742
#3	9.684215	.4883732	2.375655	391.4899	14.81356	2.409678

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	14.59888	396.5685	14.45909	395.7820	2.410612	1.192025
Stddev	.00401	1.0179	.03830	1.1374	.004035	.006684
%RSD	.0275010	.2566671	.2648832	.2873897	.1673659	.5607349
#1	14.59688	396.8337	14.42945	395.2889	2.415244	1.192823
#2	14.60350	395.4443	14.44548	394.9744	2.407865	1.198274
#3	14.59625	397.4275	14.50234	397.0828	2.408728	1.184977

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	393.3624	2.425522	14.17130	146.8868	4.746066	F 4.266049
Stddev	3.7446	.033762	.11792	.2104	.012142	.017546
%RSD	.9519390	1.391962	.8321079	.1432099	.2558380	.4112831
#1	394.9633	2.416557	14.15959	146.9558	4.745423	4.266861
#2	389.0834	2.397147	14.29463	146.6505	4.758517	4.248111
#3	396.0403	2.462862	14.05966	147.0539	4.734258	4.283174

Reviewed By:Mohan
On:1/8/2025 7:28:17 AM
Inst Id :P5

Sample Name: CCV123 Acquired: 01/06/2025 19:27:24 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v80) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV123 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.671050	4.761485	4.785482	4.785914	4.829934	4.591745
Stddev	.003412	.007264	.019499	.011402	.006540	.011983
%RSD	.0730544	.1525506	.4074657	.2382330	.1354119	.2609598
#1	4.674154	4.753433	4.788402	4.793088	4.836477	4.589099
#2	4.671602	4.767545	4.764687	4.791887	4.823396	4.581306
#3	4.667396	4.763477	4.803356	4.772767	4.829928	4.604829

Elem	Li6707
Units	ppm
Avg	4.757445
Stddev	.009875
%RSD	.2075601
#1	4.749496
#2	4.754340
#3	4.768498

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1302.243	12727.90	1209.834	978.8045	1382.847
Stddev	5.014	121.36	7.410	7.5946	5.467
%RSD	.3850351	.9535151	.6125053	.7759106	.3953685
#1	1298.235	12646.90	1204.173	975.3089	1377.725
#2	1307.866	12669.36	1218.221	973.5870	1388.604
#3	1300.629	12867.44	1207.106	987.5175	1382.213

Reviewed By:Mohan
On:1/8/2025 7:28:17 AM
Inst Id :P5

Sample Name: CCB123 Acquired: 01/06/2025 19:31:09 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v80) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB123 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.006213	.0004686	-.000698	.0044924	.0013554	.0186874	.0001710
Stddev	.000253	.0029553	.003599	.0025271	.0007495	.0519520	.0026721
%RSD	4.075939	630.6832	515.6203	56.25328	55.29986	278.0053	1563.101
#1	-.006239	.0028116	-.001555	.0072892	.0018872	.0786319	-.001332
#2	-.006452	.0014456	.003252	.0038148	.0004982	-.013288	.003256
#3	-.005948	-.002851	-.003790	.0023732	.0016808	-.009281	-.001411

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000117	.0000565	-.043743	-.000545	-.000227	-.004140	-.005837
Stddev	.000145	.0000481	.059133	.000350	.000146	.006972	.037312
%RSD	124.0969	85.19945	135.1826	64.19234	64.46540	168.3852	639.2219
#1	.000050	.0000329	.015508	-.000256	-.000373	-.011986	.037218
#2	-.000189	.0000247	-.102757	-.000934	-.000226	.001343	-.026001
#3	-.000213	.0001119	-.043979	-.000446	-.000081	-.001777	-.028728

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0033932	-.036008	-.000320	-.000710	-.068697	.0019477	.0019278
Stddev	.0006946	.036185	.000678	.001386	.011624	.0116388	.0010991
%RSD	20.46919	100.4919	212.0866	195.3926	16.92002	597.5793	57.01579
#1	.0036964	-.000719	-.000980	-.002297	-.055434	-.011422	.0009597
#2	.0038846	-.073027	.000376	.000266	-.077109	.007447	.0031226
#3	.0025986	-.034278	-.000355	-.000098	-.073550	.009818	.0017011

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0719978	.0040315	.0075458	-.000666	-.005931	-.001448	-.000589
Stddev	.0853901	.0044621	.0003901	.000753	.002128	.000915	.000447
%RSD	118.6009	110.6792	5.169144	113.0688	35.87185	63.20258	76.01430
#1	.1560929	-.001121	.0072520	.000161	-.004346	-.001018	-.001062
#2	-.014631	.006604	.0073971	-.001310	-.005099	-.002499	-.000173
#3	.074531	.006611	.0079884	-.000848	-.008349	-.000827	-.000531

Reviewed By:Mohan
On:1/8/2025 7:28:17 AM
Inst Id :P5

Sample Name: CCB123 Acquired: 01/06/2025 19:31:09 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v80) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB123 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.0097547	.0004117	-.003849
Stddev	.0053308	.0002464	.002554
%RSD	54.64795	59.85282	66.34755
#1	.0140614	.0005109	-.004384
#2	.0037927	.0005930	-.001070
#3	.0114102	.0001311	-.006092

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1606.593	14404.95	1290.764	1217.753	1754.853
Stddev	1.981	19.30	5.976	3.564	1.682
%RSD	.1232830	.1339985	.4629523	.2926432	.0958603
#1	1607.252	14412.06	1296.898	1214.236	1752.922
#2	1604.366	14419.68	1290.433	1221.362	1755.999
#3	1608.159	14383.10	1284.961	1217.663	1755.639

Reviewed By:Mohan
On:1/8/2025 7:28:17 AM
Inst Id :P5

Sample Name: P5126-03A Acquired: 01/06/2025 19:35:10 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v80) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMA0A Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1654332	.0302806	3.670943	.0525981	.0466099	49.78722
Stddev	.0018363	.0033922	.007191	.0042367	.0048478	.54379
%RSD	1.110003	11.20261	.1959026	8.054796	10.40076	1.092223
#1	.1643459	.0263642	3.665068	.0562034	.0462944	49.21422
#2	.1675533	.0321764	3.668798	.0536592	.0419275	50.29612
#3	.1644004	.0323011	3.678963	.0479318	.0516076	49.85133

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.404014	.0069729	.0068349	160.6956	.1574432	.0999366
Stddev	.001952	.0003183	.0000264	.5628	.0005972	.0007388
%RSD	.1390571	4.564885	.3854794	.3502107	.3793190	.7392498
#1	1.402175	.0068040	.0068348	160.1075	.1569806	.0995251
#2	1.406063	.0067746	.0068087	161.2291	.1581174	.1007895
#3	1.403803	.0073400	.0068613	160.7502	.1572314	.0994952

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5128125	172.4590	5.422666	39.17449	.1982641	.0029569
Stddev	.0126292	1.1831	.040135	.34003	.0013817	.0025119
%RSD	2.462724	.6860313	.7401262	.8679854	.6969014	84.95081
#1	.4985783	171.1046	5.376323	38.94604	.1987510	.0007091
#2	.5171846	172.9813	5.445752	39.56526	.1993365	.0056683
#3	.5226747	173.2912	5.445924	39.01218	.1967049	.0024932

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9063925	.1958913	2.905902	5.259672	F 12.41419	-.317025
Stddev	.0123331	.0126911	.005467	.289956	.02226	.005346
%RSD	1.360681	6.478647	.1881236	5.512806	.1793411	1.686205
#1	.9034220	.2097162	2.906707	5.578161	12.39160	-.319935
#2	.9199396	.1847697	2.910921	5.189859	12.43611	-.320286
#3	.8958159	.1931879	2.900077	5.010997	12.41487	-.310856

Reviewed By:Mohan
On:1/8/2025 7:28:17 AM
Inst Id :P5

Sample Name: P5126-03A Acquired: 01/06/2025 19:35:10 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v80) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMA0A Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0139116	4.066300	8.754599	.3486475	1.005616	.2287915
Stddev	.0004286	.009358	.048899	.0013735	.006404	.0025542
%RSD	3.081049	.2301338	.5585471	.3939623	.6368386	1.116393
#1	.0135159	4.056080	8.775331	.3470638	1.005415	.2268361
#2	.0138521	4.074448	8.789717	.3495138	.999314	.2316813
#3	.0143669	4.068372	8.698750	.3493650	1.012118	.2278571

Elem	Li6707
Units	ppm
Avg	.0565849
Stddev	.0015044
%RSD	2.658577
#1	.0583149
#2	.0555846
#3	.0558552

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1772.165	15870.58	1446.044	1328.623	1649.507
Stddev	1.976	24.84	6.567	.968	.941
%RSD	.1114828	.1565266	.4541690	.0728453	.0570453
#1	1773.137	15888.15	1448.477	1329.725	1648.929
#2	1773.467	15881.44	1438.608	1327.910	1650.592
#3	1769.892	15842.16	1451.049	1328.234	1648.998

Reviewed By:Mohan
On:1/8/2025 7:28:17 AM
Inst Id :P5

Sample Name: P5127-04ARE Acquired: 01/06/2025 19:38:57 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v80) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMB1A Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0350562	.0220265	.2034686	.0415131	.0132170	23.81209	.2644420
Stddev	.0023596	.0014734	.0073087	.0111227	.0012141	.09942	.0029029
%RSD	6.730902	6.689172	3.592066	26.79327	9.185977	.4175300	1.097762
#1	.0344158	.0224005	.2016711	.0506967	.0123609	23.92661	.2673715
#2	.0376699	.0232768	.1972263	.0446969	.0126836	23.76186	.2643883
#3	.0330830	.0204021	.2115084	.0291456	.0146065	23.74782	.2615664

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0026741	.0020122	532.9513	.0490785	.0808908	.0311210	72.10829
Stddev	.0001373	.0000642	2.5980	.0006571	.0005876	.0130981	.40139
%RSD	5.133233	3.189070	.4874657	1.338899	.7264460	42.08763	.5566451
#1	.0025319	.0020064	535.8924	.0497455	.0815017	.0264784	72.53915
#2	.0026847	.0019512	531.9923	.0484318	.0808412	.0459080	72.04078
#3	.0028058	.0020791	530.9691	.0490581	.0803296	.0209765	71.74493

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.418578	93.72033	.0840802	.0118511	.5900995	.0365902	.2370029
Stddev	.021667	1.01032	.0007389	.0033939	.0238958	.0079053	.0014501
%RSD	.6338116	1.078013	.8788234	28.63810	4.049457	21.60505	.6118348
#1	3.441877	94.78764	.0849207	.0093227	.5712462	.0374942	.2374702
#2	3.399033	92.77879	.0835329	.0157084	.6169739	.0440046	.2381617
#3	3.414825	93.59455	.0837871	.0105222	.5820783	.0282717	.2353768

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.544470	1.446696	-.079455	.0074614	1.023959	5.561576	.0182293
Stddev	.208880	.008700	.003362	.0017762	.005203	.089953	.0024071
%RSD	2.768644	.6013492	4.231340	23.80463	.5081025	1.617404	13.20473
#1	7.549780	1.453674	-.083337	.0078938	1.020888	5.665403	.0210010
#2	7.750643	1.449465	-.077491	.0089814	1.029967	5.507092	.0170240
#3	7.332986	1.436949	-.077538	.0055089	1.021023	5.512234	.0166629

Reviewed By:Mohan
On:1/8/2025 7:28:17 AM
Inst Id :P5

Sample Name: P5127-04ARE Acquired: 01/06/2025 19:38:57 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v80) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMB1A Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.1443610	.4174306	.0340020
Stddev	.0027232	.0021997	.0027596
%RSD	1.886378	.5269630	8.116116
#1	.1474634	.4189647	.0312956
#2	.1432542	.4149104	.0338984
#3	.1423655	.4184169	.0368119

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1612.362	14490.55	1340.189	1211.752	1512.207
Stddev	1.001	27.76	16.020	9.896	2.640
%RSD	.0620749	.1915599	1.195379	.8166337	.1745995
#1	1613.112	14522.49	1321.868	1219.773	1511.699
#2	1611.225	14472.21	1347.134	1200.694	1509.857
#3	1612.748	14476.96	1351.565	1214.789	1515.064

Reviewed By:Mohan
On:1/8/2025 7:28:17 AM
Inst Id :P5

Sample Name: P5128-019A Acquired: 01/06/2025 19:42:50 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v80) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMK9A Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2192578	.0209137	5.210439	.1491401	.1244502	64.89493
Stddev	.0017297	.0022391	.009304	.0028125	.0004426	.08736
%RSD	.7889073	10.70638	.1785712	1.885811	.3556168	.1346193
#1	.2182475	.0232619	5.213182	.1517000	.1245816	64.95158
#2	.2182708	.0206767	5.200071	.1495909	.1239568	64.93888
#3	.2212551	.0188026	5.218063	.1461294	.1248122	64.79432

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.994549	.0071287	.0146486	90.19127	.1729266	.1321631
Stddev	.003063	.0001421	.0001205	.28775	.0014152	.0006003
%RSD	.1535852	1.993073	.8222863	.3190423	.8183587	.4541790
#1	1.996826	.0069654	.0147867	90.27870	.1739259	.1317672
#2	1.995755	.0072242	.0145647	90.42515	.1735467	.1318684
#3	1.991067	.0071964	.0145945	89.86994	.1713072	.1328538

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6296878	202.8998	15.46075	29.17265	.2355131	.0038630
Stddev	.0115651	.6042	.04360	.07972	.0007651	.0011814
%RSD	1.836637	.2978003	.2819945	.2732579	.3248828	30.58318
#1	.6183635	203.2437	15.48473	29.21756	.2359269	.0052271
#2	.6292202	203.2536	15.48709	29.21978	.2359823	.0031979
#3	.6414795	202.2021	15.41042	29.08061	.2346302	.0031641

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5495047	.1737658	3.158970	8.542913	F 11.47625	-.398184
Stddev	.0084914	.0034375	.008587	.095039	.02177	.003858
%RSD	1.545282	1.978216	.2718297	1.112486	.1897178	.9688410
#1	.5506320	.1754341	3.149449	8.577980	11.46776	-.401393
#2	.5405060	.1760507	3.166128	8.615436	11.46000	-.399254
#3	.5573762	.1698125	3.161333	8.435324	11.50098	-.393903

Reviewed By:Mohan
On:1/8/2025 7:28:17 AM
Inst Id :P5

Sample Name: P5128-019A Acquired: 01/06/2025 19:42:50 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v80) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMK9A Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0138897	2.996144	9.256179	.2502695	.7488051	.0341391
Stddev	.0004476	.007669	.021595	.0025620	.0036383	.0004445
%RSD	3.222312	.2559642	.2333006	1.023690	.4858871	1.301898
#1	.0135652	2.992520	9.280714	.2495168	.7484736	.0340295
#2	.0144003	2.990959	9.247763	.2481682	.7525979	.0346281
#3	.0137036	3.004954	9.240059	.2531235	.7453439	.0337596

Elem	Li6707
Units	ppm
Avg	.0689290
Stddev	.0050747
%RSD	7.362204
#1	.0645784
#2	.0745038
#3	.0677047

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1965.768	17548.71	1580.234	1479.149	1672.815
Stddev	1.016	42.88	7.381	7.416	1.650
%RSD	.0516978	.2443759	.4671092	.5013693	.0986164
#1	1966.876	17561.19	1573.869	1484.378	1674.720
#2	1964.880	17500.97	1578.507	1470.662	1671.873
#3	1965.548	17583.97	1588.326	1482.407	1671.852

Reviewed By:Mohan
On:1/8/2025 7:28:17 AM
Inst Id :P5

Sample Name: P5122-12A Acquired: 01/06/2025 19:46:37 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v80) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMC9A Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1635775	.0115924	6.317645	.1003271	.0755277	62.25408
Stddev	.0024627	.0082573	.015423	.0026913	.0017178	.31139
%RSD	1.505542	71.22994	.2441222	2.682532	2.274336	.5001976
#1	.1663523	.0209603	6.328192	.1033432	.0768443	62.28911
#2	.1627289	.0084462	6.299945	.0981706	.0761542	61.92665
#3	.1616512	.0053708	6.324800	.0994674	.0735847	62.54648

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.016167	.0085739	.0080109	401.0122	.1900408	.1347247
Stddev	.004566	.0000580	.0000768	1.4262	.0008643	.0007802
%RSD	.2264733	.6766331	.9582285	.3556464	.4548235	.5791202
#1	2.017208	.0085080	.0080883	401.1997	.1907939	.1344443
#2	2.011170	.0086172	.0079348	399.5015	.1890971	.1341235
#3	2.020122	.0085965	.0080096	402.3353	.1902315	.1356064

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4506984	253.2311	5.625836	65.67927	.2871650	-.007998
Stddev	.0285693	.7346	.032571	.49807	.0010135	.001722
%RSD	6.338902	.2900871	.5789541	.7583439	.3529430	21.53341
#1	.4219615	253.7073	5.638919	65.68037	.2879117	-.009795
#2	.4510365	252.3851	5.588758	65.18065	.2860112	-.006362
#3	.4790972	253.6008	5.649831	66.17680	.2875722	-.007836

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.158851	.3044264	3.750668	10.69014	F 16.16538	-.425149
Stddev	.025265	.0032039	.009528	.29713	.01461	.005960
%RSD	1.170277	1.052435	.2540225	2.779477	.0903645	1.401793
#1	2.186308	.3075560	3.739683	10.42504	16.16123	-.431420
#2	2.153659	.3045701	3.756686	10.63407	16.15330	-.424470
#3	2.136585	.3011530	3.755634	11.01131	16.18162	-.419558

Reviewed By:Mohan
On:1/8/2025 7:28:17 AM
Inst Id :P5

Sample Name: P5122-12A Acquired: 01/06/2025 19:46:37 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v80) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMC9A Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0133549	4.850729	7.381155	.3564460	1.714126	.8283962
Stddev	.0013975	.013539	.055715	.0004169	.014759	.0027328
%RSD	10.46443	.2791136	.7548318	.1169530	.8609925	.3298851
#1	.0139563	4.849454	7.436663	.3569273	1.730784	.8286828
#2	.0143510	4.837873	7.325235	.3562001	1.708912	.8255315
#3	.0117574	4.864861	7.381569	.3562106	1.702682	.8309744

Elem	Li6707
Units	ppm
Avg	.0762570
Stddev	.0018878
%RSD	2.475617
#1	.0763575
#2	.0780926
#3	.0743210

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1740.150	15718.01	1442.807	1302.696	1550.437
Stddev	3.422	18.28	7.591	3.370	3.979
%RSD	.1966612	.1163270	.5261490	.2586865	.2566644
#1	1738.318	15730.84	1434.484	1306.376	1548.744
#2	1744.098	15726.12	1449.352	1299.760	1554.983
#3	1738.033	15697.08	1444.584	1301.953	1547.584

Reviewed By:Mohan
On:1/8/2025 7:28:17 AM
Inst Id :P5

Sample Name: P5124-19A Acquired: 01/06/2025 19:50:23 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v80) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHM88A Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1324924	.0235696	.8355943	.1226379	.0334468	52.24198	.6254818
Stddev	.0049929	.0039003	.0044996	.0014865	.0010905	.52310	.0034460
%RSD	3.768450	16.54819	.5384869	1.212127	3.260258	1.001309	.5509352
#1	.1360986	.0267657	.8306459	.1211231	.0332352	51.64763	.6257708
#2	.1345850	.0192236	.8394399	.1240944	.0346275	52.44585	.6287741
#3	.1267937	.0247194	.8366972	.1226963	.0324776	52.63244	.6219003

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0068700	.0018937	48.38994	.0849434	.0779925	.1342191	140.8412
Stddev	.0001227	.0000723	.29201	.0008130	.0002590	.0075226	1.1066
%RSD	1.786184	3.817851	.6034423	.9570829	.3320483	5.604710	.7856969
#1	.0067288	.0019016	48.05400	.0842858	.0779484	.1421940	139.5661
#2	.0069503	.0018178	48.58297	.0846920	.0782708	.1332131	141.4072
#3	.0069310	.0019618	48.53284	.0858523	.0777585	.1272501	141.5502

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.744454	21.46584	.1468894	.0043563	.5858876	.1371183	1.266381
Stddev	.043928	.04248	.0002724	.0010614	.0255699	.0037593	.008164
%RSD	.6513222	.1979052	.1854466	24.36431	4.364295	2.741672	.6447029
#1	6.693805	21.41972	.1471651	.0051487	.5564075	.1411380	1.275530
#2	6.772166	21.50337	.1466204	.0031504	.6020458	.1365276	1.259838
#3	6.767392	21.47442	.1468827	.0047700	.5992095	.1336893	1.263774

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.758341	3.733193	-.257568	.0106250	5.572064	7.705091	.0435130
Stddev	.095116	.004961	.001945	.0007361	.012351	.053582	.0025313
%RSD	2.530788	.1329009	.7549875	6.928135	.2216583	.6954079	5.817227
#1	3.721944	3.730362	-.255401	.0097800	5.584608	7.643543	.0464026
#2	3.686798	3.730296	-.258143	.0109681	5.559916	7.741335	.0424489
#3	3.866280	3.738922	-.259161	.0111270	5.571667	7.730394	.0416876

Reviewed By:Mohan
On:1/8/2025 7:28:17 AM
Inst Id :P5

Sample Name: P5124-19A Acquired: 01/06/2025 19:50:23 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v80) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHM88A Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	1.570124	.1620805	.0489088
Stddev	.008822	.0004379	.0029759
%RSD	.5618619	.2701663	6.084671
#1	1.560054	.1615768	.0454786
#2	1.576494	.1622945	.0508012
#3	1.573822	.1623703	.0504466

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1787.382	15923.75	1435.011	1342.539	1735.597
Stddev	1.861	6.19	9.311	10.987	.517
%RSD	.1041077	.0388596	.6488356	.8183721	.0298036
#1	1785.328	15930.41	1445.755	1331.028	1735.334
#2	1787.862	15922.66	1429.978	1352.913	1736.193
#3	1788.955	15918.18	1429.300	1343.675	1735.264

Reviewed By:Mohan
On:1/8/2025 7:28:17 AM
Inst Id :P5

Sample Name: P5129-01A Acquired: 01/06/2025 19:54:10 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v80) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMK3A Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2186786	.0340359	2.643500	.2407688	.1161243	79.57359
Stddev	.0024902	.0053391	.003390	.0046125	.0033047	.63516
%RSD	1.138748	15.68667	.1282389	1.915720	2.845810	.7982044
#1	.2178620	.0392648	2.639654	.2450754	.1192920	80.03544
#2	.2214746	.0342499	2.644792	.2413293	.1163830	78.84926
#3	.2166993	.0285930	2.646054	.2359017	.1126979	79.83607

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.630353	.0076641	.0079877	88.67011	.1490933	.1542070
Stddev	.018313	.0000507	.0002849	.71358	.0013668	.0007115
%RSD	1.123235	.6611534	3.567152	.8047547	.9167342	.4613726
#1	1.639479	.0077060	.0076820	88.99709	.1491096	.1542262
#2	1.609270	.0076784	.0080352	87.85164	.1477184	.1534861
#3	1.642309	.0076078	.0082460	89.16161	.1504518	.1549086

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.219418	195.1165	18.87116	23.35493	.2346827	.0012438
Stddev	.016008	1.0940	.11934	.19725	.0014663	.0012435
%RSD	1.312783	.5606931	.6324087	.8445754	.6247978	99.97185
#1	1.228936	196.0164	18.93224	23.34990	.2362394	.0002110
#2	1.200936	193.8988	18.73364	23.16025	.2344812	.0026241
#3	1.228381	195.4345	18.94761	23.55465	.2333276	.0008964

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3690134	.2136088	3.660094	11.46306	F 12.29347	-.376980
Stddev	.0160315	.0171698	.006215	.19419	.01417	.003133
%RSD	4.344417	8.037954	.1698112	1.694015	.1152471	.8311630
#1	.3806165	.2136254	3.652967	11.61309	12.29964	-.379609
#2	.3507205	.1964307	3.664388	11.53235	12.27727	-.373513
#3	.3757031	.2307702	3.662926	11.24373	12.30351	-.377819

Reviewed By:Mohan
On:1/8/2025 7:28:17 AM
Inst Id :P5

Sample Name: P5129-01A Acquired: 01/06/2025 19:54:10 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v80) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMK3A Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0140658	3.568940	8.380092	.1859862	.7595801	.1004361
Stddev	.0002081	.002603	.028964	.0012547	.0041838	.0013712
%RSD	1.479252	.0729483	.3456342	.6746311	.5508064	1.365227
#1	.0138318	3.567641	8.395188	.1863936	.7626352	.1014501
#2	.0142301	3.571937	8.346697	.1845784	.7548116	.0988760
#3	.0141355	3.567241	8.398390	.1869866	.7612935	.1009822

Elem	Li6707
Units	ppm
Avg	.0840197
Stddev	.0076897
%RSD	9.152196
#1	.0907021
#2	.0857422
#3	.0756149

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2034.048	18097.65	1662.083	1513.854	1663.961
Stddev	4.346	165.51	15.576	8.732	4.846
%RSD	.2136581	.9145471	.9371103	.5768239	.2912149
#1	2034.003	18045.92	1653.021	1512.223	1667.282
#2	2038.416	18282.85	1680.068	1523.287	1666.200
#3	2029.725	17964.19	1653.160	1506.052	1658.400

Reviewed By:Mohan
On:1/8/2025 7:28:17 AM
Inst Id :P5

Sample Name: P5130-15A Acquired: 01/06/2025 19:57:57 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v80) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMH5A Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4524268	.0267265	14.13432	.2673714	.0571705	66.48848
Stddev	.0054157	.0038366	.02841	.0038372	.0037819	.68746
%RSD	1.197030	14.35505	.2010336	1.435138	6.615153	1.033959
#1	.4530129	.0233046	14.16703	.2629626	.0608459	65.69468
#2	.4467419	.0260008	14.12019	.2699569	.0573754	66.88865
#3	.4575256	.0308741	14.11574	.2691948	.0532904	66.88211

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.363172	.0064179	.0169791	144.2126	.1640516	.1420536
Stddev	.014161	.0001466	.0000854	1.2071	.0011094	.0001009
%RSD	.4210512	2.283504	.5030282	.8370481	.6762402	.0710515
#1	3.348203	.0063826	.0170462	142.8407	.1653325	.1421597
#2	3.364957	.0062922	.0170082	144.6847	.1634037	.1420425
#3	3.376355	.0065788	.0168830	145.1123	.1634184	.1419587

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.719331	232.8445	16.57355	44.10388	.2027057	-.017300
Stddev	.022781	2.1233	.11888	.39269	.0021848	.000394
%RSD	1.324990	.9119055	.7172735	.8903704	1.077812	2.277763
#1	1.697225	230.4938	16.43628	43.66082	.2040190	-.017707
#2	1.718035	233.4165	16.64238	44.40893	.2039144	-.017274
#3	1.742732	234.6233	16.64198	44.24190	.2001836	-.016920

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8831811	.1676543	5.902971	7.988727	F 31.17587	-.412349
Stddev	.0297296	.0049020	.034540	.355682	.03302	.001229
%RSD	3.366200	2.923887	.5851313	4.452297	.1059276	.2981705
#1	.8559264	.1675960	5.874291	7.940137	31.21400	-.413413
#2	.8787326	.1725852	5.941313	7.659838	31.15707	-.411003
#3	.9148843	.1627817	5.893308	8.366206	31.15654	-.412629

Reviewed By:Mohan
On:1/8/2025 7:28:17 AM
Inst Id :P5

Sample Name: P5130-15A Acquired: 01/06/2025 19:57:57 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v80) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMH5A Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0174782	5.980092	8.876558	1.062237	1.001411	.2777478
Stddev	.0010212	.018381	.080412	.004438	.018143	.0024785
%RSD	5.842568	.3073638	.9058887	.4178108	1.811721	.8923645
#1	.0182134	5.981524	8.799005	1.066792	.983600	.2749332
#2	.0179089	5.997715	8.871117	1.061993	1.019868	.2796041
#3	.0163122	5.961037	8.959552	1.057926	1.000767	.2787061

Elem	Li6707
Units	ppm
Avg	.0670789
Stddev	.0034109
%RSD	5.084988
#1	.0697213
#2	.0632283
#3	.0682869

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1964.772	17652.55	1613.395	1474.594	1600.231
Stddev	2.593	68.70	10.511	3.948	2.319
%RSD	.1319979	.3891535	.6514919	.2677361	.1448960
#1	1966.432	17573.91	1621.381	1477.030	1599.102
#2	1966.100	17700.86	1617.317	1470.039	1602.898
#3	1961.784	17682.88	1601.487	1476.714	1598.693

Reviewed By:Mohan
On:1/8/2025 7:28:17 AM
Inst Id :P5

Sample Name: P5127-04DL2X2 Acquired: 01/06/2025 20:01:44 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v80) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMB1 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0127251	.0245154	.1078282	-.040736	.0043812	13.40290	.1429402
Stddev	.0032826	.0038737	.0031551	.006601	.0049911	.11288	.0031118
%RSD	25.79673	15.80119	2.926049	16.20484	113.9212	.8421916	2.176996
#1	.0141675	.0285881	.1105053	-.039238	.0014196	13.27307	.1459562
#2	.0089682	.0240808	.1043496	-.047958	.0015803	13.45784	.1431238
#3	.0150395	.0208773	.1086296	-.035013	.0101436	13.47779	.1397407

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0015897	.0011580	286.5599	.0266654	.0578010	.0005253	38.84283
Stddev	.0004431	.0000714	1.6014	.0004419	.0002748	.0115661	.16262
%RSD	27.87343	6.167295	.5588201	1.657261	.4753733	2201.769	.4186515
#1	.0011699	.0012394	284.8259	.0261684	.0580814	-.012793	38.68610
#2	.0015462	.0011060	286.8707	.0270139	.0575323	.008040	38.83165
#3	.0020529	.0011286	287.9831	.0268140	.0577893	.006329	39.01075

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.858549	51.02398	.0460657	-.005134	.1775061	.0216770	.1305505
Stddev	.011829	.38500	.0007130	.001674	.0218390	.0089680	.0010201
%RSD	.6364730	.7545507	1.547792	32.60853	12.30326	41.37080	.7813450
#1	1.854504	50.60625	.0459427	-.007067	.1526644	.0239461	.1316995
#2	1.871869	51.10111	.0454223	-.004129	.1861703	.0117925	.1302007
#3	1.849272	51.36458	.0468323	-.004207	.1936836	.0292925	.1297514

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.983975	.7415550	-.045066	.0076557	.5316277	3.535825	.0129271
Stddev	.100336	.0041749	.002698	.0011408	.0048110	.013211	.0007762
%RSD	2.518482	.5629895	5.987459	14.90173	.9049606	.3736394	6.004188
#1	4.094867	.7457113	-.047535	.0089723	.5369324	3.544582	.0131681
#2	3.957589	.7415917	-.042186	.0070371	.5275468	3.520629	.0135541
#3	3.899469	.7373618	-.045477	.0069578	.5304037	3.542263	.0120590

Reviewed By:Mohan
On:1/8/2025 7:28:17 AM
Inst Id :P5

Sample Name: P5127-04DL2X2 Acquired: 01/06/2025 20:01:44 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v80) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMB1 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.1008164	.2232350	.0135356
Stddev	.0118682	.0013192	.0031003
%RSD	11.77209	.5909399	22.90495
#1	.0885634	.2223439	.0170372
#2	.1122582	.2247505	.0111395
#3	.1016277	.2226107	.0124302

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1588.336	14212.58	1302.490	1186.351	1560.611
Stddev	6.803	86.22	7.540	7.476	3.281
%RSD	.4282823	.6066612	.5788871	.6301414	.2102353
#1	1590.318	14134.12	1307.023	1178.789	1562.793
#2	1593.928	14198.73	1293.786	1186.527	1562.203
#3	1580.763	14304.89	1306.661	1193.738	1556.838

Reviewed By:Mohan
On:1/8/2025 7:28:17 AM
Inst Id :P5

Sample Name: P5127-05DL2X2 Acquired: 01/06/2025 20:05:36 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v80) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMB1D Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0116935	.0298194	.1037922	-.042260	.0097250	13.03801	.1380369
Stddev	.0061056	.0005390	.0047292	.007266	.0070808	1.07307	.0156194
%RSD	52.21320	1.807583	4.556449	17.19467	72.80999	8.230345	11.31540
#1	.0142157	.0293429	.0993255	-.041728	.0066537	13.29602	.1392921
#2	.0161339	.0297108	.1033048	-.035274	.0046984	13.95857	.1529909
#3	.0047310	.0304044	.1087463	-.049777	.0178228	11.85946	.1218277

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0016154	.0009888	280.7713	.0262427	.0561576	.0058879	37.83521
Stddev	.0003177	.0001977	22.1015	.0007335	.0005649	.0239232	2.92882
%RSD	19.66636	19.99433	7.871694	2.795010	1.005936	406.3141	7.741000
#1	.0013445	.0009641	284.6403	.0254652	.0568076	-.003404	38.38406
#2	.0019651	.0008046	300.6828	.0263407	.0558805	.033063	40.45078
#3	.0015366	.0011977	256.9908	.0269223	.0557848	-.011996	34.67078

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.802712	50.14594	.0439030	-.002333	.1670974	.0286453	.1230849
Stddev	.154622	3.70832	.0003667	.001527	.0389491	.0238284	.0016020
%RSD	8.577161	7.395059	.8352837	65.45123	23.30923	83.18425	1.301546
#1	1.830760	50.95740	.0442246	-.001890	.1797344	.0550465	.1228577
#2	1.941391	53.38133	.0439808	-.001076	.1981590	.0087347	.1216086
#3	1.635987	46.09908	.0435036	-.004032	.1233989	.0221546	.1247884

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.986134	.7153052	-.043489	.0080716	.5211649	3.476447	.0102178
Stddev	.584591	.0069907	.001368	.0004426	.0032356	.250715	.0001267
%RSD	14.66561	.9773039	3.144775	5.482759	.6208455	7.211807	1.240399
#1	4.096855	.7076989	-.044877	.0083959	.5203088	3.517989	.0103005
#2	4.507446	.7167679	-.043447	.0075675	.5184435	3.703796	.0102811
#3	3.354100	.7214489	-.042142	.0082515	.5247425	3.207556	.0100719

Reviewed By:Mohan
On:1/8/2025 7:28:17 AM
Inst Id :P5

Sample Name: P5127-05DL2X2 Acquired: 01/06/2025 20:05:36 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v80) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMB1D Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.0993554	.2179683	.0086320
Stddev	.0089817	.0171433	.0025874
%RSD	9.040005	7.865048	29.97426
#1	.1054764	.2207461	.0089542
#2	.1035456	.2335531	.0110433
#3	.0890443	.1996057	.0058987

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1597.749	14392.63	1319.732	1204.679	1572.130
Stddev	6.478	39.57	93.868	12.556	6.210
%RSD	.4054464	.2749628	7.112634	1.042280	.3950347
#1	1592.928	14370.48	1297.673	1195.436	1567.171
#2	1605.113	14438.32	1238.859	1218.974	1579.096
#3	1595.207	14369.10	1422.665	1199.627	1570.122

Reviewed By:Mohan
On:1/8/2025 7:28:17 AM
Inst Id :P5

Sample Name: P5127-04LDL2X10 Acquired: 01/06/2025 20:09:28 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v80) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMB1L Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.004702	.0161919	.0214562	-.033401	.0011339	3.075604	.0293408
Stddev	.002616	.0018066	.0040273	.001604	.0035448	.021224	.0016274
%RSD	55.63455	11.15714	18.76980	4.802158	312.6370	.6900912	5.546439
#1	-.003937	.0153757	.0181276	-.034672	-.002957	3.071377	.0282417
#2	-.007616	.0182625	.0259328	-.033932	.003068	3.056811	.0312103
#3	-.002554	.0149375	.0203081	-.031599	.003291	3.098624	.0285703

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002623	.0000928	57.45259	.0057235	.0261034	-.010416	7.764972
Stddev	.0002189	.0001777	.12486	.0005784	.0001171	.007361	.073076
%RSD	83.44759	191.4506	.2173282	10.10520	.4487521	70.66974	.9411000
#1	.0004202	.0000049	57.31163	.0063822	.0262232	-.002875	7.848207
#2	.0000124	.0002974	57.49681	.0054894	.0259891	-.017583	7.711351
#3	.0003544	-.000024	57.54931	.0052988	.0260979	-.010790	7.735359

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3768931	10.51037	.0087619	-.000302	-.176416	.0122299	.0236810
Stddev	.0044093	.06305	.0010340	.001704	.032486	.0113702	.0006557
%RSD	1.169917	.5999106	11.80103	563.8521	18.41461	92.97054	2.768900
#1	.3747300	10.58283	.0082582	-.000049	-.146378	-.000690	.0232183
#2	.3739829	10.48030	.0099513	-.002119	-.171977	.020713	.0244314
#3	.3819662	10.46798	.0080764	.001262	-.210894	.016666	.0233934

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7806263	.1385831	-.015371	.0043560	.1059147	1.018629	.0002747
Stddev	.1072272	.0018322	.002542	.0001570	.0072342	.019889	.0007189
%RSD	13.73604	1.322132	16.53916	3.603599	6.830239	1.952506	261.7054
#1	.8009410	.1379710	-.013240	.0044657	.0975639	1.003090	-.000410
#2	.8762430	.1371353	-.018185	.0044262	.1102700	1.011755	.000211
#3	.6646949	.1406431	-.014688	.0041762	.1099102	1.041044	.001024

Reviewed By:Mohan
On:1/8/2025 7:28:17 AM
Inst Id :P5

Sample Name: P5127-04LDL2X10 Acquired: 01/06/2025 20:09:28 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v80) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMB1L Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.0408729	.0447957	-.010875
Stddev	.0092398	.0002752	.007427
%RSD	22.60610	.6143049	68.29253
#1	.0324067	.0448370	-.002640
#2	.0507288	.0445023	-.017065
#3	.0394832	.0450480	-.012920

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1584.851	14189.44	1291.968	1198.976	1665.049
Stddev	8.312	50.61	9.922	4.096	7.590
%RSD	.5244645	.3566949	.7679900	.3416331	.4558206
#1	1588.318	14137.70	1283.660	1194.386	1669.554
#2	1590.868	14238.84	1302.954	1202.261	1669.308
#3	1575.367	14191.77	1289.288	1200.280	1656.287

Reviewed By:Mohan
On:1/8/2025 7:28:17 AM
Inst Id :P5

Sample Name: P5127-06DL2X2 Acquired: 01/06/2025 20:13:26 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v80) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMB1S Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0539368	.0697300	.1276903	.0417751	.0907866	16.54176	2.038033
Stddev	.0014454	.0032784	.0018636	.0069582	.0061547	.13391	.011020
%RSD	2.679748	4.701556	1.459464	16.65631	6.779360	.8095512	.5407292
#1	.0528494	.0700116	.1284619	.0496908	.0978368	16.38742	2.027943
#2	.0555769	.0728585	.1255648	.0390103	.0880378	16.62713	2.036363
#3	.0533840	.0663199	.1290441	.0366242	.0864853	16.61073	2.049793

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0501551	.0487863	281.4572	.2343460	.5371555	.2246620	39.01654
Stddev	.0002936	.0000350	1.6420	.0013226	.0008018	.0114254	.24119
%RSD	.5854572	.0717752	.5834064	.5643727	.1492642	5.085583	.6181614
#1	.0504930	.0487464	279.7659	.2343444	.5367307	.2353922	38.87360
#2	.0499615	.0488004	281.5604	.2356694	.5366554	.2126496	38.88102
#3	.0500109	.0488121	283.0452	.2330242	.5380803	.2259442	39.29500

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.296701	50.25262	.5300392	.0332592	.1965972	.4984473	.5511722
Stddev	.012702	.44349	.0010365	.0018398	.0057023	.0208986	.0028722
%RSD	.5530717	.8825141	.1955532	5.531575	2.900493	4.192736	.5211165
#1	2.282823	49.74294	.5288673	.0334110	.1946187	.4844971	.5488305
#2	2.299531	50.46449	.5308359	.0313482	.1921477	.5224751	.5503090
#3	2.307751	50.55044	.5304144	.0350183	.2030252	.4883697	.5543771

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.553722	.7266248	-.041511	.0078463	.5296954	4.869484	.0110329
Stddev	.134780	.0051617	.001065	.0009965	.0021893	.023091	.0020155
%RSD	2.959784	.7103671	2.565791	12.70087	.4133118	.4742040	18.26824
#1	4.627116	.7260409	-.042560	.0075447	.5273257	4.895117	.0087139
#2	4.635877	.7217799	-.041542	.0089588	.5316427	4.850309	.0120213
#3	4.398173	.7320536	-.040431	.0070354	.5301178	4.863025	.0123634

Reviewed By:Mohan
On:1/8/2025 7:28:17 AM
Inst Id :P5

Sample Name: P5127-06DL2X2 Acquired: 01/06/2025 20:13:26 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v80) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMB1S Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.1793183	.2190592	.0151434
Stddev	.0152959	.0016345	.0046206
%RSD	8.530011	.7461211	30.51207
#1	.1758385	.2172323	.0100660
#2	.1660620	.2203828	.0162626
#3	.1960542	.2195625	.0191014

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1567.490	13960.61	1289.193	1166.092	1538.039
Stddev	1.386	52.08	.685	10.701	1.000
%RSD	.0884535	.3730406	.0531287	.9176864	.0650340
#1	1566.144	14011.66	1289.839	1178.030	1536.917
#2	1568.914	13962.59	1288.475	1162.884	1538.364
#3	1567.411	13907.56	1289.265	1157.362	1538.837

Reviewed By:Mohan
On:1/8/2025 7:28:17 AM
Inst Id :P5

Sample Name: P5122-08DLX2 Acquired: 01/06/2025 20:17:14 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v80) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHM69 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0137119	.0257717	.0872686	-.023410	.0128107	27.88657	.3309943
Stddev	.0046860	.0041743	.0044633	.007115	.0030073	.30795	.0039234
%RSD	34.17485	16.19703	5.114498	30.39322	23.47525	1.104295	1.185340
#1	.0184284	.0215849	.0868189	-.030551	.0124808	27.77308	.3301704
#2	.0136505	.0299333	.0919399	-.016321	.0159693	27.65147	.3275483
#3	.0090569	.0257970	.0830472	-.023357	.0099818	28.23516	.3352642

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0021228	.0011439	556.3912	.0564858	.0790041	.1053152	71.36822
Stddev	.0002573	.0000835	3.5527	.0004993	.0006246	.0180508	.70421
%RSD	12.12125	7.300810	.6385184	.8838843	.7905790	17.13975	.9867282
#1	.0018259	.0012394	553.3647	.0559467	.0788486	.0860685	71.03865
#2	.0022790	.0010847	555.5062	.0565785	.0784719	.1080101	70.88923
#3	.0022637	.0011076	560.3027	.0569322	.0796917	.1218670	72.17678

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.594444	130.6509	.0815446	-.007514	.7986152	.0636083	.2328908
Stddev	.032261	1.9477	.0005627	.000897	.0216788	.0139840	.0011296
%RSD	.7021816	1.490736	.6900181	11.93429	2.714544	21.98460	.4850345
#1	4.574753	129.2255	.0810802	-.007400	.7856605	.0797510	.2340281
#2	4.576903	129.8571	.0813832	-.006680	.7865425	.0552006	.2317690
#3	4.631675	132.8701	.0821703	-.008462	.8236425	.0558733	.2328753

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.671590	5.346818	-.121910	.0069693	.7866915	3.464732	.0164882
Stddev	.223919	.023618	.001257	.0002877	.0038443	.026691	.0004996
%RSD	6.098680	.4417222	1.031003	4.128837	.4886646	.7703486	3.029896
#1	3.756130	5.332662	-.120728	.0069182	.7910286	3.471169	.0168595
#2	3.417709	5.333710	-.121770	.0067105	.7837042	3.435412	.0166847
#3	3.840931	5.374083	-.123230	.0072792	.7853416	3.487616	.0159202

Reviewed By:Mohan
On:1/8/2025 7:28:17 AM
Inst Id :P5

Sample Name: P5122-08DLX2 Acquired: 01/06/2025 20:17:14 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v80) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHM69 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.4929337	.6262165	.0435729
Stddev	.0054475	.0040023	.0027808
%RSD	1.105111	.6391299	6.381892
#1	.4985399	.6229901	.0467533
#2	.4926009	.6249641	.0423651
#3	.4876603	.6306953	.0416002

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1616.380	14549.02	1346.241	1209.911	1451.436
Stddev	6.540	24.53	11.495	2.741	3.768
%RSD	.4046353	.1685927	.8538577	.2265559	.2596099
#1	1623.794	14555.12	1342.603	1211.139	1455.711
#2	1611.425	14569.92	1359.115	1211.824	1450.000
#3	1613.922	14522.01	1337.005	1206.771	1448.597

Reviewed By:Mohan
On:1/8/2025 7:28:17 AM
Inst Id :P5

Sample Name: P5122-16DLX2 Acquired: 01/06/2025 20:21:04 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v82) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMD1 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1000713	.0038848	1.375479	.0666868	.0321831	39.25819
Stddev	.0019321	.0060276	.003260	.0035668	.0029802	.12061
%RSD	1.930734	155.1590	.2369744	5.348557	9.260268	.3072323
#1	.1013465	.0094503	1.377446	.0687749	.0287532	39.15744
#2	.0978483	.0047216	1.371717	.0625683	.0336555	39.39184
#3	.1010192	-.002518	1.377275	.0687170	.0341405	39.22528

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.234511	.0020654	.0046395	64.31154	.1234475	.0872291
Stddev	.011810	.0003198	.0000241	.15456	.0019169	.0000528
%RSD	.5285490	15.48333	.5192509	.2403356	1.552847	.0605711
#1	2.222169	.0023011	.0046623	64.13792	.1253092	.0872202
#2	2.245706	.0021939	.0046143	64.43416	.1214797	.0871813
#3	2.235659	.0017014	.0046420	64.36253	.1235537	.0872858

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2948190	133.5920	26.23152	18.85200	.1008401	-.006411
Stddev	.0060162	.3795	.05252	.12748	.0014118	.000606
%RSD	2.040630	.2840951	.2002314	.6762061	1.399999	9.456958
#1	.2909126	133.1914	26.17253	18.88958	.1007940	-.006767
#2	.2917973	133.9463	26.27323	18.95647	.1022743	-.005711
#3	.3017470	133.6382	26.24880	18.70996	.0994519	-.006755

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1540390	.0947752	1.189297	2.825712	F 13.76868	-.268570
Stddev	.0189715	.0131245	.002779	.233441	.01049	.001915
%RSD	12.31605	13.84807	.2336445	8.261333	.0761550	.7131270
#1	.1362221	.1088466	1.186296	2.778144	13.77439	-.266747
#2	.1519094	.0828661	1.191780	3.079274	13.75658	-.268397
#3	.1739854	.0926128	1.189817	2.619718	13.77507	-.270566

Reviewed By:Mohan
On:1/8/2025 7:28:17 AM
Inst Id :P5

Sample Name: P5122-16DLX2 Acquired: 01/06/2025 20:21:04 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v82) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMD1 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0152596	2.933702	5.063221	.1298710	.4184509	.3061772
Stddev	.0000288	.002642	.035314	.0009324	.0019187	.0007516
%RSD	.1885384	.0900537	.6974691	.7179679	.4585217	.2454702
#1	.0152809	2.935568	5.023544	.1289431	.4162413	.3058410
#2	.0152269	2.934859	5.091209	.1298622	.4194157	.3070382
#3	.0152711	2.930679	5.074910	.1308079	.4196958	.3056524

Elem	Li6707
Units	ppm
Avg	.0458456
Stddev	.0060832
%RSD	13.26887
#1	.0528447
#2	.0428603
#3	.0418317

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1878.872	16754.70	1517.025	1412.253	1666.190
Stddev	4.862	57.16	6.942	2.355	5.674
%RSD	.2587461	.3411575	.4575866	.1667586	.3405534
#1	1875.566	16689.44	1523.825	1409.539	1660.341
#2	1876.595	16795.88	1509.950	1413.448	1666.558
#3	1884.454	16778.79	1517.301	1413.770	1671.672

Reviewed By:Mohan
On:1/8/2025 7:28:17 AM
Inst Id :P5

Sample Name: P5127-03DLX2 Acquired: 01/06/2025 20:24:54 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v80) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMB0 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0427132	.0185231	.5172372	-.004176	.0154479	29.00291	.4893250
Stddev	.0046432	.0025698	.0043992	.003306	.0062623	.19090	.0023651
%RSD	10.87078	13.87332	.8505210	79.17860	40.53841	.6582265	.4833306
#1	.0465024	.0214814	.5171185	-.005191	.0213609	29.04070	.4917228
#2	.0441036	.0172453	.5128985	-.000481	.0088867	28.79594	.4869942
#3	.0375336	.0168428	.5216945	-.006856	.0160962	29.17209	.4892579

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0029349	.0013998	436.2415	.0463272	.0827755	.0633788	90.50185
Stddev	.0000428	.0001553	2.2972	.0002906	.0013730	.0112990	.58935
%RSD	1.459165	11.09263	.5265810	.6272043	1.658674	17.82777	.6511979
#1	.0029527	.0014666	437.0811	.0461649	.0831252	.0648099	90.74865
#2	.0029660	.0015105	433.6427	.0461540	.0812614	.0514324	89.82923
#3	.0028861	.0012223	438.0008	.0466627	.0839397	.0738940	90.92767

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	8.248182	68.93669	.0876563	-.008143	.4399882	.0759050	.3907561
Stddev	.043692	.44939	.0008223	.001914	.0043840	.0073879	.0012544
%RSD	.5297180	.6518860	.9381238	23.49845	.9963836	9.733057	.3210135
#1	8.253888	68.77087	.0877817	-.009737	.4423308	.0813139	.3901985
#2	8.201917	68.59377	.0867784	-.008671	.4427032	.0674875	.3921926
#3	8.288740	69.44543	.0884086	-.006021	.4349306	.0789135	.3898772

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.883904	2.565772	-.151570	.0085049	1.242825	4.676927	.0317067
Stddev	.318818	.005622	.003254	.0011186	.005278	.029560	.0016131
%RSD	6.527941	.2191290	2.146641	13.15302	.4247041	.6320449	5.087626
#1	4.974857	2.559894	-.153514	.0078650	1.248623	4.707865	.0334444
#2	4.529492	2.566325	-.153383	.0078531	1.238300	4.648970	.0302569
#3	5.147362	2.571098	-.147814	.0097966	1.241553	4.673947	.0314188

Reviewed By:Mohan
On:1/8/2025 7:28:17 AM
Inst Id :P5

Sample Name: P5127-03DLX2 Acquired: 01/06/2025 20:24:54 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v80) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMB0 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.2154621	.3094681	.0494306
Stddev	.0064654	.0017046	.0010468
%RSD	3.000708	.5508041	2.117700
#1	.2201394	.3093610	.0482236
#2	.2080842	.3078196	.0499790
#3	.2181626	.3112237	.0500894

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1639.928	14846.02	1362.563	1233.451	1512.642
Stddev	4.066	74.92	10.021	3.785	1.761
%RSD	.2479352	.5046509	.7354208	.3068561	.1164072
#1	1641.644	14862.93	1354.933	1237.483	1514.547
#2	1635.285	14911.03	1373.911	1232.896	1511.075
#3	1642.854	14764.08	1358.843	1229.974	1512.302

Reviewed By:Mohan
On:1/8/2025 7:28:17 AM
Inst Id :P5

Sample Name: P5131-10DLX2 Acquired: 01/06/2025 20:28:43 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v80) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMM7 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0879405	.0037003	.6620353	.0435360	.0207852	39.64093	.8028562
Stddev	.0038346	.0008502	.0023441	.0048796	.0009394	.43152	.0125763
%RSD	4.360451	22.97715	.3540716	11.20820	4.519455	1.088563	1.566446
#1	.0835348	.0031514	.6644288	.0463228	.0207291	39.15346	.7920952
#2	.0905263	.0046797	.6619333	.0463836	.0217514	39.79531	.7997921
#3	.0897603	.0032699	.6597439	.0379016	.0198752	39.97402	.8166815

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0029412	.0050039	76.59669	.0753047	.0869774	.2712129	115.9264
Stddev	.0001835	.0001134	.95856	.0006575	.0011920	.0145726	1.6183
%RSD	6.239351	2.265849	1.251440	.8731392	1.370480	5.373136	1.395951
#1	.0027397	.0049729	75.54898	.0757366	.0856990	.2560550	114.0763
#2	.0030988	.0049093	76.81140	.0756295	.0880584	.2851196	116.6247
#3	.0029850	.0051296	77.42969	.0745480	.0871747	.2724641	117.0784

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	16.65346	12.42976	.1127948	-.007345	.7861986	.0860172	1.158852
Stddev	.20045	.16685	.0009728	.001896	.0034216	.0059963	.006392
%RSD	1.203661	1.342339	.8624582	25.81878	.4352119	6.971029	.5515704
#1	16.42855	12.26603	.1118933	-.006549	.7824642	.0922695	1.166135
#2	16.71859	12.42368	.1126652	-.005976	.7891830	.0854673	1.154174
#3	16.81325	12.59957	.1138259	-.009510	.7869487	.0803148	1.156247

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.759826	4.749547	-.236365	.0154975	.8236653	6.476929	.0372327
Stddev	.042305	.012996	.004003	.0005650	.0060403	.072679	.0018196
%RSD	1.532887	.2736325	1.693490	3.645428	.7333407	1.122115	4.887115
#1	2.755947	4.758134	-.231823	.0158941	.8242210	6.393208	.0352636
#2	2.719594	4.755912	-.237896	.0157477	.8294086	6.523816	.0388520
#3	2.803937	4.734596	-.239376	.0148506	.8173664	6.513763	.0375825

Reviewed By:Mohan
On:1/8/2025 7:28:17 AM
Inst Id :P5

Sample Name: P5131-10DLX2 Acquired: 01/06/2025 20:28:43 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v80) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMM7 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.3846802	.0168836	.0199765
Stddev	.0061348	.0004221	.0083551
%RSD	1.594791	2.500008	41.82484
#1	.3865161	.0171287	.0292915
#2	.3778370	.0163962	.0174939
#3	.3896874	.0171258	.0131439

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1788.145	15998.59	1441.313	1340.218	1674.723
Stddev	5.982	75.30	14.336	7.592	3.588
%RSD	.3345403	.4706766	.9946562	.5664406	.2142617
#1	1790.609	15928.41	1457.696	1332.651	1678.414
#2	1792.502	16078.14	1435.181	1347.834	1674.507
#3	1781.325	15989.22	1431.063	1340.170	1671.247

Reviewed By:Mohan
On:1/8/2025 7:28:17 AM
Inst Id :P5

Sample Name: P5056-20DLX2 Acquired: 01/06/2025 20:32:33 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v80) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHL47 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0275544	.0223003	.1492732	-.013797	.0155987	29.02580	.3260673
Stddev	.0039696	.0048453	.0034224	.002931	.0020723	.16864	.0047120
%RSD	14.40655	21.72746	2.292700	21.24774	13.28523	.5809954	1.445103
#1	.0237852	.0265886	.1520405	-.016499	.0132186	29.19617	.3224380
#2	.0316980	.0232682	.1454463	-.014211	.0170031	29.02226	.3243714
#3	.0271801	.0170441	.1503327	-.010680	.0165744	28.85895	.3313925

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0023068	.0009098	434.3354	.0435887	.0750335	.0727818	78.50941
Stddev	.0000339	.0000737	1.4226	.0010674	.0003312	.0090273	.16592
%RSD	1.469961	8.103759	.3275266	2.448875	.4413961	12.40321	.2113417
#1	.0023176	.0008474	433.7286	.0444326	.0753925	.0747394	78.33300
#2	.0023340	.0009911	433.3169	.0439449	.0749683	.0629363	78.66235
#3	.0022688	.0008909	435.9608	.0423888	.0747398	.0806696	78.53287

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.398912	103.0693	.0843161	-.008124	.5603823	.0549764	.2262086
Stddev	.010208	.1033	.0014733	.001701	.0267702	.0102131	.0022001
%RSD	.2320505	.1002047	1.747339	20.94238	4.777134	18.57721	.9725795
#1	4.387472	103.1411	.0858999	-.007626	.5636894	.0432841	.2261433
#2	4.402174	102.9509	.0840619	-.010019	.5321122	.0594901	.2284406
#3	4.407090	103.1158	.0829864	-.006728	.5853453	.0621549	.2240419

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.329952	2.168341	-.140086	.0080397	.6282582	7.265818	.0217161
Stddev	.177826	.008244	.004001	.0008096	.0019105	.019858	.0031228
%RSD	5.340206	.3801791	2.856139	10.07017	.3040878	.2733090	14.38019
#1	3.445855	2.160750	-.141605	.0089503	.6265699	7.276866	.0206837
#2	3.125211	2.167164	-.143105	.0074011	.6303320	7.277695	.0192401
#3	3.418789	2.177111	-.135548	.0077678	.6278727	7.242893	.0252243

Reviewed By:Mohan
On:1/8/2025 7:28:17 AM
Inst Id :P5

Sample Name: P5056-20DLX2 Acquired: 01/06/2025 20:32:33 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v80) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHL47 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.3962495	.3433697	.0454420
Stddev	.0039778	.0007544	.0048405
%RSD	1.003850	.2197011	10.65197
#1	.3962473	.3425739	.0452937
#2	.4002283	.3434608	.0406774
#3	.3922728	.3440744	.0503550

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1608.704	14500.79	1327.147	1204.891	1501.831
Stddev	2.167	64.16	5.906	3.070	3.124
%RSD	.1347304	.4424834	.4450195	.2547536	.2079891
#1	1606.846	14440.63	1320.329	1203.003	1502.222
#2	1611.085	14568.32	1330.453	1208.433	1504.741
#3	1608.182	14493.43	1330.661	1203.237	1498.531

Reviewed By:Mohan
On:1/8/2025 7:28:17 AM
Inst Id :P5

Sample Name: P5056-21DLX2 Acquired: 01/06/2025 20:36:23 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v80) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHL47D Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0271452	.0247894	.1481174	-.019195	.0105099	29.20921	.3237154
Stddev	.0039695	.0061765	.0021886	.008489	.0037647	.26064	.0032826
%RSD	14.62325	24.91605	1.477584	44.22443	35.82082	.8923069	1.014032
#1	.0276190	.0231029	.1485834	-.019517	.0074803	28.91912	.3199425
#2	.0229601	.0196313	.1500353	-.027519	.0093248	29.42365	.3259172
#3	.0308566	.0316340	.1457333	-.010550	.0147246	29.28487	.3252864

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0023878	.0009420	433.1307	.0444173	.0753184	.0687550	78.77682
Stddev	.0001542	.0000647	1.6726	.0014844	.0011675	.0045955	.29751
%RSD	6.457193	6.868842	.3861729	3.341912	1.550106	6.683925	.3776634
#1	.0023034	.0008732	431.2802	.0442027	.0744336	.0739711	78.43617
#2	.0022942	.0009513	433.5771	.0430519	.0748799	.0653023	78.98564
#3	.0025657	.0010016	434.5349	.0459973	.0766417	.0669917	78.90866

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.390734	103.5456	.0854660	-.008299	.5566692	.0754706	.2281487
Stddev	.033957	.7967	.0008057	.001110	.0129067	.0136802	.0017180
%RSD	.7733699	.7694380	.9427552	13.37562	2.318560	18.12646	.7529938
#1	4.365359	102.7828	.0863545	-.007354	.5441543	.0731932	.2283023
#2	4.377534	104.3723	.0852606	-.009522	.5699349	.0630721	.2297848
#3	4.429308	103.4815	.0847828	-.008023	.5559185	.0901466	.2263592

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.348151	2.192580	-.135831	.0077416	.6284801	7.248772	.0206175
Stddev	.188564	.013895	.004021	.0011193	.0026683	.027485	.0021916
%RSD	5.631898	.6337084	2.960647	14.45827	.4245702	.3791655	10.62960
#1	3.169242	2.206345	-.140213	.0079946	.6302866	7.224819	.0188075
#2	3.330134	2.178559	-.132308	.0087128	.6254153	7.242718	.0199908
#3	3.545077	2.192837	-.134972	.0065175	.6297385	7.278779	.0230541

Reviewed By:Mohan
On:1/8/2025 7:28:17 AM
Inst Id :P5

Sample Name: P5056-21DLX2 Acquired: 01/06/2025 20:36:23 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v80) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHL47D Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.3990182	.3452377	.0380691
Stddev	.0041026	.0021092	.0040664
%RSD	1.028170	.6109322	10.68162
#1	.3965199	.3428125	.0416224
#2	.4037530	.3462570	.0389507
#3	.3967816	.3466437	.0336342

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1601.718	14459.00	1328.702	1191.948	1494.726
Stddev	3.847	35.46	2.579	6.484	4.073
%RSD	.2401569	.2452550	.1940804	.5440095	.2724964
#1	1598.120	14486.45	1331.453	1193.136	1490.114
#2	1605.773	14418.97	1326.339	1184.952	1497.830
#3	1601.260	14471.59	1328.314	1197.756	1496.233

Reviewed By:Mohan
On:1/8/2025 7:28:17 AM
Inst Id :P5

Sample Name: P5056-20LDLX10 Acquired: 01/06/2025 20:40:14 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v80) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHL47L Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.003546	.0176833	.0354353	-.038750	.0034711	6.061585	.0698214
Stddev	.002379	.0045231	.0006021	.006294	.0016450	.087469	.0041738
%RSD	67.07673	25.57821	1.699075	16.24250	47.39175	1.443010	5.977856
#1	-.003382	.0229060	.0350676	-.034438	.0033147	5.965239	.0696555
#2	-.001254	.0150494	.0361302	-.035840	.0019099	6.083509	.0740758
#3	-.006003	.0150945	.0351082	-.045972	.0051888	6.136006	.0657331

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002506	.0002851	91.14688	.0091280	.0335651	.0169775	16.42676
Stddev	.0001583	.0001093	.38863	.0008240	.0002915	.0083665	.08153
%RSD	63.15684	38.33043	.4263805	9.027382	.8685754	49.28007	.4963071
#1	.0002452	.0003274	90.76783	.0085947	.0334054	.0121842	16.34234
#2	.0004116	.0001610	91.12837	.0087121	.0339016	.0266382	16.43288
#3	.0000951	.0003670	91.54443	.0100770	.0333883	.0121100	16.50505

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9395053	22.30822	.0171048	-.002209	-.111436	.0153237	.0429858
Stddev	.0080047	.27603	.0003520	.002118	.012600	.0169220	.0004837
%RSD	.8520154	1.237338	2.057621	95.89669	11.30737	110.4297	1.125192
#1	.9303209	22.01477	.0174499	-.003380	-.096966	-.003168	.0424281
#2	.9449976	22.34723	.0167464	.000236	-.119986	.030038	.0432398
#3	.9431975	22.56267	.0171181	-.003483	-.117356	.019101	.0432896

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3856331	.4057238	-.036671	.0063208	.1290315	1.509690	.0038116
Stddev	.4171017	.0032646	.002172	.0004397	.0031718	.008992	.0014411
%RSD	108.1603	.8046391	5.923063	6.956195	2.458129	.5956092	37.80890
#1	.1045487	.4071322	-.035111	.0064513	.1254456	1.499347	.0022421
#2	.8648750	.4080478	-.035750	.0066805	.1301791	1.515651	.0050752
#3	.1874755	.4019914	-.039152	.0058307	.1314697	1.514072	.0041176

Reviewed By:Mohan
On:1/8/2025 7:28:17 AM
Inst Id :P5

Sample Name: P5056-20LDLX10 Acquired: 01/06/2025 20:40:14 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v80) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHL47L Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.0883712	.0714613	-.007357
Stddev	.0033368	.0007056	.003499
%RSD	3.775919	.9873772	47.56354
#1	.0848010	.0710157	-.011093
#2	.0914111	.0710935	-.006821
#3	.0889014	.0722749	-.004157

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1582.992	14216.54	1293.516	1190.767	1631.816
Stddev	2.035	79.27	7.143	8.546	3.598
%RSD	.1285480	.5575880	.5521901	.7177240	.2204651
#1	1585.075	14146.44	1294.881	1192.505	1635.814
#2	1582.892	14200.61	1285.789	1181.485	1630.798
#3	1581.009	14302.56	1299.878	1198.311	1628.838

Reviewed By:Mohan
On:1/8/2025 7:28:17 AM
Inst Id :P5

Sample Name: P5056-22DLX2 Acquired: 01/06/2025 20:44:12 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v80) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHL47S Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0673126	.0655180	.1682652	.0588210	.0939998	30.75249	2.136815
Stddev	.0023666	.0093689	.0052973	.0023113	.0025671	.03460	.005992
%RSD	3.515795	14.29968	3.148196	3.929360	2.730956	.1125100	.2803958
#1	.0670582	.0548956	.1722355	.0610569	.0922590	30.74343	2.139207
#2	.0650836	.0690544	.1622503	.0564411	.0927923	30.72331	2.129997
#3	.0697961	.0726040	.1703099	.0589650	.0969480	30.79071	2.141241

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0492649	.0481788	432.4593	.2390727	.5514937	.2945526	79.24160
Stddev	.0004198	.0000706	.5140	.0011475	.0015167	.0290632	.12873
%RSD	.8521157	.1466103	.1188614	.4799829	.2750238	9.866893	.1624503
#1	.0497117	.0482577	433.0334	.2403928	.5513043	.3276806	79.37444
#2	.0492040	.0481572	432.0417	.2383143	.5500805	.2826331	79.11742
#3	.0488788	.0481215	432.3027	.2385109	.5530962	.2733441	79.23294

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.856683	103.1468	.5648029	.0238816	.5608321	.5194277	.6350781
Stddev	.011255	.2015	.0008803	.0011872	.0083517	.0008522	.0038729
%RSD	.2317341	.1953834	.1558610	4.971080	1.489164	.1640618	.6098326
#1	4.860358	103.2319	.5654776	.0252522	.5701442	.5195618	.6314247
#2	4.844050	103.2918	.5651240	.0231736	.5540046	.5185165	.6391384
#3	4.865640	102.9167	.5638071	.0232190	.5583475	.5202049	.6346712

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.500703	2.186135	-.137731	.0086761	.6347745	7.252726	.0213497
Stddev	.076350	.009598	.003892	.0002661	.0079325	.040487	.0008932
%RSD	2.180989	.4390537	2.825475	3.066976	1.249652	.5582284	4.183889
#1	3.546991	2.180437	-.136119	.0089773	.6425713	7.293734	.0207878
#2	3.542539	2.180751	-.142169	.0084727	.6267130	7.212782	.0223797
#3	3.412579	2.197216	-.134904	.0085783	.6350393	7.251661	.0208817

Reviewed By:Mohan
On:1/8/2025 7:28:17 AM
Inst Id :P5

Sample Name: P5056-22DLX2 Acquired: 01/06/2025 20:44:12 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v80) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHL47S Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.4005692	.3418212	.0388027
Stddev	.0024298	.0006869	.0042320
%RSD	.6065746	.2009577	10.90656
#1	.4033428	.3420698	.0424771
#2	.3988160	.3423491	.0341754
#3	.3995489	.3410446	.0397555

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1598.747	14461.48	1324.808	1197.985	1489.316
Stddev	3.082	32.00	12.775	3.224	3.136
%RSD	.1927484	.2212785	.9642532	.2690814	.2105931
#1	1600.353	14425.49	1310.060	1197.642	1492.541
#2	1600.693	14472.26	1331.942	1194.947	1489.130
#3	1595.194	14486.71	1332.423	1201.367	1486.277

Reviewed By:Mohan
On:1/8/2025 7:28:17 AM
Inst Id :P5

Sample Name: P5124-08 Acquired: 01/06/2025 20:48:00 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v80) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHM77 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1391859	-.023499	3.639902	.0720935	.0380231	46.32196
Stddev	.0034844	.002715	.008468	.0015243	.0021519	.13036
%RSD	2.503427	11.55174	.2326545	2.114353	5.659561	.2814249
#1	.1396364	-.025679	3.645899	.0733333	.0355610	46.26213
#2	.1424232	-.020458	3.630214	.0725555	.0395447	46.23226
#3	.1354982	-.024358	3.643591	.0703916	.0389637	46.47150

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.404214	.0060841	.0056257	109.3752	.2305176	.0950618
Stddev	.003530	.0001640	.0000838	.1126	.0014570	.0005467
%RSD	.2513845	2.694699	1.489995	.1029789	.6320592	.5750748
#1	1.404728	.0058997	.0057170	109.2866	.2311359	.0956161
#2	1.407458	.0061391	.0055523	109.5019	.2315635	.0945231
#3	1.400455	.0062135	.0056076	109.3369	.2288534	.0950463

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5944144	171.9775	5.507505	32.24658	.2452002	-.017945
Stddev	.0007433	.2300	.008066	.23605	.0007177	.000520
%RSD	.1250502	.1337406	.1464557	.7320017	.2926891	2.899909
#1	.5951901	171.8038	5.498191	32.06547	.2459422	-.018298
#2	.5937084	171.8903	5.512245	32.16074	.2451488	-.017347
#3	.5943448	172.2384	5.512077	32.51354	.2445096	-.018190

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5259121	.1679399	2.002546	6.138951	F 14.14490	-.290323
Stddev	.0178132	.0108011	.012518	.374077	.00969	.006407
%RSD	3.387113	6.431527	.6250866	6.093506	.0685131	2.206903
#1	.5054508	.1780834	1.989132	5.818799	14.15336	-.288247
#2	.5343225	.1691527	2.013915	6.550147	14.13433	-.285211
#3	.5379630	.1565836	2.004591	6.047909	14.14702	-.297511

Reviewed By:Mohan
On:1/8/2025 7:28:17 AM
Inst Id :P5

Sample Name: P5124-08 Acquired: 01/06/2025 20:48:00 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v80) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHM77 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0150908	6.311241	8.329766	1.149230	1.213216	.2059074
Stddev	.0002576	.016795	.071544	.001869	.005390	.0003656
%RSD	1.707229	.2661172	.8588943	.1625930	.4442747	.1775348
#1	.0150012	6.308093	8.288986	1.150150	1.209330	.2056738
#2	.0148899	6.296243	8.287935	1.147080	1.210948	.2057196
#3	.0153812	6.329388	8.412375	1.150461	1.219369	.2063286

Elem	Li6707
Units	ppm
Avg	.0515655
Stddev	.0049568
%RSD	9.612519
#1	.0527601
#2	.0558159
#3	.0461207

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1771.684	15973.20	1430.091	1332.465	1655.971
Stddev	4.932	78.71	8.040	9.213	2.418
%RSD	.2783789	.4927677	.5622298	.6913914	.1460307
#1	1774.167	15962.33	1435.504	1339.999	1656.983
#2	1774.880	15900.49	1433.917	1322.194	1657.719
#3	1766.004	16056.78	1420.852	1335.201	1653.212

Reviewed By:Mohan
On:1/8/2025 7:28:17 AM
Inst Id :P5

Sample Name: CCV124 Acquired: 01/06/2025 20:51:47 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v80) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV124 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.920246	4.908484	24.96446	4.950222	5.004657	416.1470
Stddev	.008914	.075773	.38062	.091672	.100446	2.2999
%RSD	.1811703	1.543724	1.524642	1.851876	2.007047	.5526732
#1	4.910474	4.910767	25.00985	4.969677	5.010707	418.6614
#2	4.927931	4.983089	25.32034	5.030604	5.101941	414.1495
#3	4.922335	4.831594	24.56317	4.850384	4.901323	415.6301

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	10.11896	.5077591	2.499253	410.1806	15.51318	2.550325
Stddev	.01434	.0056758	.038890	1.5421	.47037	.040620
%RSD	.1416933	1.117818	1.556070	.3759521	3.032084	1.592738
#1	10.13344	.5125774	2.503846	411.9586	15.64011	2.557205
#2	10.11866	.5015025	2.535643	409.2079	14.99237	2.587066
#3	10.10477	.5091974	2.458271	409.3752	15.90707	2.506704

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	15.36268	417.7902	15.24453	421.5294	2.533894	1.233015
Stddev	.02494	1.9853	.09964	2.9396	.042501	.034495
%RSD	.1623542	.4752025	.6536097	.6973567	1.677301	2.797656
#1	15.37344	419.9137	15.34658	424.5496	2.538320	1.243307
#2	15.33417	415.9804	15.14749	418.6778	2.574009	1.194545
#3	15.38044	417.4765	15.23950	421.3607	2.489353	1.261193

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	414.5047	2.546433	14.90935	154.5564	5.010485	F 4.473689
Stddev	2.1687	.028107	.49295	.5029	.080552	.044612
%RSD	.5232056	1.103778	3.306337	.3253783	1.607668	.9972107
#1	414.4214	2.578762	15.07522	154.5771	5.023573	4.500789
#2	412.3788	2.527797	14.35485	154.0435	5.083692	4.422199
#3	416.7138	2.532739	15.29797	155.0486	4.924190	4.498078

Reviewed By:Mohan
On:1/8/2025 7:28:17 AM
Inst Id :P5

Sample Name: CCV124 Acquired: 01/06/2025 20:51:47 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v80) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV124 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.958331	5.006448	4.987679	5.047232	5.080722	4.852028
Stddev	.093080	.090767	.055077	.080946	.017357	.025426
%RSD	1.877251	1.812994	1.104266	1.603779	.3416265	.5240182
#1	4.979053	5.017797	5.027592	5.062285	5.095885	4.877966
#2	5.039305	5.091006	4.924842	5.119595	5.061790	4.827148
#3	4.856637	4.910540	5.010604	4.959815	5.084492	4.850972

Elem	Li6707
Units	ppm
Avg	5.027342
Stddev	.008724
%RSD	.1735388
#1	5.033468
#2	5.017353
#3	5.031203

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1271.374	12674.82	1196.109	960.1803	1357.278
Stddev	23.949	252.57	6.945	23.1598	20.529
%RSD	1.883678	1.992692	.5806008	2.412030	1.512534
#1	1265.578	12584.71	1188.267	950.7425	1353.470
#2	1250.856	12960.08	1198.578	986.5688	1338.919
#3	1297.689	12479.65	1201.482	943.2295	1379.444

Reviewed By:Mohan
On:1/8/2025 7:28:17 AM
Inst Id :P5

Sample Name: CCB124 Acquired: 01/06/2025 20:55:32 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v80) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB124 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.002444	.0011410	-.001133	.0056571	-.000424	.0547172	.0020994
Stddev	.002840	.0006342	.002357	.0032625	.002017	.0779311	.0035583
%RSD	116.2153	55.57965	207.9915	57.67106	475.8637	142.4253	169.4882
#1	.000827	.0018595	.001559	.0025172	-.002753	-.031219	.0051762
#2	-.003876	.0009046	-.002826	.0054243	.000730	.120804	-.001797
#3	-.004283	.0006591	-.002132	.0090298	.000751	.074566	.002919

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000143	-.000017	-.079347	-.000557	.0001227	-.001714	-.034592
Stddev	.000074	.000010	.006600	.000319	.0002761	.006833	.035940
%RSD	51.61690	59.78146	8.318257	57.27487	225.0865	398.5915	103.8977
#1	-.000085	-.000026	-.074726	-.000274	.0002704	-.007751	.004062
#2	-.000119	-.000006	-.076408	-.000495	-.000196	-.003097	-.040837
#3	-.000227	-.000021	-.086906	-.000903	.000294	.005705	-.067001

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0042674	-.042161	-.000454	.0019484	-.082482	-.007983	.0004280
Stddev	.0019299	.157702	.000403	.0006365	.016333	.013442	.0007170
%RSD	45.22445	374.0464	88.78658	32.66962	19.80224	168.3796	167.5253
#1	.0020680	-.219267	-.000912	.0017898	-.069183	.007040	.0004892
#2	.0050564	.083069	-.000155	.0014062	-.077550	-.012114	.0011124
#3	.0056779	.009714	-.000294	.0026493	-.100713	-.018876	-.000318

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1025892	.0015946	.0088236	.0000291	.0008099	-.000538	-.000452
Stddev	.2069559	.0033868	.0026134	.0005276	.0029442	.000358	.001861
%RSD	201.7326	212.3929	29.61889	1814.795	363.5407	66.55941	411.3292
#1	.3414008	-.001933	.0102474	.0005437	-.001942	-.000411	.000093
#2	-.009231	.004820	.0058074	.0000543	.003915	-.000261	.001075
#3	-.024402	.001897	.0104160	-.000511	.000456	-.000942	-.002525

Reviewed By:Mohan
On:1/8/2025 7:28:17 AM
Inst Id :P5

Sample Name: CCB124 Acquired: 01/06/2025 20:55:32 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v80) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB124 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.0079799	.0000947	.0009294
Stddev	.0060767	.0001472	.0019882
%RSD	76.14919	155.4923	213.9218
#1	.0058310	-.000047	.0032090
#2	.0148391	.000247	-.000446
#3	.0032698	.000084	.000025

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1590.661	14278.44	1268.130	1188.821	1733.855
Stddev	2.961	39.47	6.639	4.372	7.609
%RSD	.1861768	.2764299	.5235375	.3677797	.4388430
#1	1587.365	14246.96	1272.630	1186.914	1725.314
#2	1593.098	14322.72	1260.505	1193.823	1736.339
#3	1591.521	14265.64	1271.255	1185.726	1739.911

Reviewed By:Mohan
On:1/8/2025 7:28:17 AM
Inst Id :P5

Sample Name: P5127-04DLX5 Acquired: 01/06/2025 20:59:33 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v80) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMB1 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0050513	.0354185	.0778067	-.051758	.0005075	8.830367	.0850470
Stddev	.0012596	.0008417	.0015878	.004045	.0062444	.057941	.0018610
%RSD	24.93604	2.376528	2.040697	7.815086	1230.402	.6561603	2.188221
#1	.0064754	.0362093	.0783889	-.048179	.0060362	8.885928	.0830031
#2	.0040831	.0355125	.0790212	-.056147	.0017515	8.770307	.0866437
#3	.0045954	.0345337	.0760100	-.050948	-.006265	8.834866	.0854941

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0011921	.0004659	409.9036	.0142687	.0543272	.0386859	27.76638
Stddev	.0001004	.0000876	1.4639	.0013782	.0002151	.0119080	.18195
%RSD	8.419922	18.80355	.3571251	9.659294	.3958525	30.78125	.6552771
#1	.0013079	.0003992	409.9362	.0153379	.0541146	.0435186	27.65383
#2	.0011379	.0005651	408.4237	.0147550	.0543225	.0251212	27.66902
#3	.0011304	.0004334	411.3509	.0127132	.0545446	.0474178	27.97629

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.663852	46.11395	.0316762	-.000471	.2605415	.0070841	.1294463
Stddev	.008319	.28475	.0010571	.001596	.0150609	.0040921	.0001192
%RSD	.5000073	.6175006	3.337247	339.2253	5.780605	57.76551	.0920445
#1	1.666386	46.19214	.0328016	-.000225	.2625653	.0114772	.1293242
#2	1.654560	45.79827	.0307041	.000989	.2744881	.0063945	.1294526
#3	1.670609	46.35144	.0315230	-.002175	.2445710	.0033805	.1295622

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.811440	.6299718	-.029175	.0083147	.5236642	1.925958	.0104545
Stddev	.392043	.0056526	.000941	.0008049	.0033673	.033711	.0006152
%RSD	13.94457	.8972812	3.224417	9.679947	.6430317	1.750347	5.884218
#1	2.817635	.6241669	-.030107	.0085295	.5228408	1.956873	.0099457
#2	3.200349	.6354587	-.029194	.0074242	.5207850	1.890015	.0102796
#3	2.416336	.6302898	-.028225	.0089903	.5273669	1.930986	.0111382

Reviewed By:Mohan
On:1/8/2025 7:28:17 AM
Inst Id :P5

Sample Name: P5127-04DLX5 Acquired: 01/06/2025 20:59:33 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v80) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMB1 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.0218205	.3703380	.0166335
Stddev	.0045722	.0011372	.0051653
%RSD	20.95387	.3070707	31.05371
#1	.0169080	.3701378	.0109550
#2	.0226017	.3693142	.0210527
#3	.0259518	.3715620	.0178928

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1547.150	13990.33	1282.741	1154.740	1515.904
Stddev	1.751	73.70	17.200	4.093	4.210
%RSD	.1132064	.5267842	1.340851	.3544354	.2777536
#1	1547.580	14000.35	1265.241	1153.643	1520.055
#2	1548.647	13912.13	1299.624	1159.270	1516.020
#3	1545.224	14058.51	1283.358	1151.308	1511.636

Reviewed By:Mohan
On:1/8/2025 7:28:17 AM
Inst Id :P5

Sample Name: P5127-05DLX5 Acquired: 01/06/2025 21:03:26 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v80) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMB1D Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0038343	.0368947	.0835471	-.051983	.0041238	8.924646	.0808119
Stddev	.0049234	.0027929	.0022991	.009079	.0049054	.084862	.0014035
%RSD	128.4037	7.569965	2.751861	17.46610	118.9534	.9508696	1.736717
#1	-.000852	.0400741	.0832338	-.041502	.0004807	8.831316	.0792750
#2	.003390	.0348371	.0814208	-.057449	.0021892	8.945451	.0811354
#3	.008965	.0357729	.0859868	-.056998	.0097016	8.997170	.0820254

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0010933	.0004605	411.6885	.0132367	.0537524	.0165450	28.01710
Stddev	.0001500	.0001234	2.6093	.0007338	.0003560	.0182237	.21216
%RSD	13.72290	26.80297	.6338159	5.543818	.6622610	110.1458	.7572496
#1	.0011523	.0005863	408.9578	.0135615	.0535636	.0373216	27.92499
#2	.0009227	.0004556	414.1567	.0123966	.0541630	.0032666	28.25974
#3	.0012049	.0003396	411.9511	.0137521	.0535305	.0090469	27.86656

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.678217	46.73321	.0330456	-.003074	.2291578	.0142143	.1291021
Stddev	.014318	.31507	.0022937	.003065	.0191738	.0029014	.0014877
%RSD	.8531713	.6741951	6.941046	99.69922	8.367050	20.41204	1.152335
#1	1.661911	46.37214	.0308858	-.002108	.2479680	.0113195	.1287616
#2	1.688738	46.87513	.0354531	-.000609	.2096401	.0171224	.1278141
#3	1.684000	46.95237	.0327980	-.006506	.2298654	.0142011	.1307305

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.858744	.6300776	-.032956	.0072404	.5211067	1.958193	.0132682
Stddev	.176987	.0078183	.003806	.0011932	.0042727	.016449	.0009898
%RSD	6.191087	1.240849	11.54708	16.47927	.8199284	.8400143	7.460175
#1	2.663450	.6328097	-.029289	.0085937	.5242358	1.943959	.0143955
#2	2.904241	.6212598	-.036886	.0063402	.5228456	1.976201	.0125415
#3	3.008542	.6361632	-.032694	.0067872	.5162388	1.954418	.0128676

Reviewed By:Mohan
On:1/8/2025 7:28:17 AM
Inst Id :P5

Sample Name: P5127-05DLX5 Acquired: 01/06/2025 21:03:26 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v80) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMB1D Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.0262267	.3748796	.0100370
Stddev	.0056254	.0025011	.0065786
%RSD	21.44908	.6671751	65.54352
#1	.0297594	.3720990	.0064286
#2	.0197396	.3769458	.0060522
#3	.0291810	.3755938	.0176301

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1560.949	14144.75	1280.026	1165.227	1529.057
Stddev	3.444	92.60	9.729	9.473	3.502
%RSD	.2206578	.6546291	.7600439	.8130154	.2290267
#1	1560.779	14159.93	1290.315	1171.332	1527.197
#2	1557.592	14228.82	1270.977	1170.035	1526.876
#3	1564.475	14045.50	1278.788	1154.314	1533.096

Reviewed By:Mohan
On:1/8/2025 7:28:17 AM
Inst Id :P5

Sample Name: P5127-04LDLX25 Acquired: 01/06/2025 21:07:19 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v80) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMB1L Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.004982	.0172299	.0182317	-.039186	-.002583	1.751161	.0143980
Stddev	.003324	.0034417	.0038976	.012260	.001757	.035954	.0033905
%RSD	66.70561	19.97533	21.37800	31.28531	68.02711	2.053176	23.54858
#1	-.004655	.0212035	.0139998	-.049862	-.001832	1.758296	.0112781
#2	-.008458	.0151844	.0216741	-.025797	-.004591	1.712175	.0180062
#3	-.001835	.0153018	.0190211	-.041901	-.001326	1.783014	.0139098

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000287	.0000486	80.70909	.0019327	.0284323	.0011650	5.493502
Stddev	.0001297	.0000293	.35808	.0012241	.0004620	.0192595	.106207
%RSD	452.5706	60.38366	.4436633	63.33485	1.625008	1653.254	1.933317
#1	-.000116	.0000788	80.41179	.0005993	.0289643	-.020626	5.464494
#2	.000066	.0000203	81.10659	.0021932	.0282013	.015906	5.611199
#3	.000136	.0000466	80.60888	.0030056	.0281314	.008215	5.404813

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3343113	9.237329	.0070953	-.001421	-.149165	.0101271	.0216588
Stddev	.0014961	.140869	.0015570	.000287	.010467	.0125664	.0010029
%RSD	.4475198	1.525001	21.94362	20.18997	7.017179	124.0866	4.630451
#1	.3326283	9.385157	.0053823	-.001176	-.143086	.0113832	.0205009
#2	.3348151	9.222188	.0084244	-.001736	-.143158	.0220183	.0222554
#3	.3354905	9.104641	.0074791	-.001351	-.161251	-.003020	.0222200

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4305295	.1158192	-.013405	.0062381	.0970481	.3749197	.0005887
Stddev	.1092681	.0007655	.002040	.0011182	.0016735	.0064742	.0010551
%RSD	25.37993	.6609687	15.22010	17.92473	1.724386	1.726828	179.2165
#1	.3178981	.1166952	-.015722	.0049469	.0972170	.3737934	.0006902
#2	.4375997	.1154837	-.011877	.0068799	.0986308	.3818832	-.000513
#3	.5360908	.1152786	-.012617	.0068873	.0952966	.3690826	.001589

Reviewed By:Mohan
On:1/8/2025 7:28:17 AM
Inst Id :P5

Sample Name: P5127-04LDLX25 Acquired: 01/06/2025 21:07:19 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v80) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMB1L Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.0152994	.0725428	-.013661
Stddev	.0069873	.0005508	.003155
%RSD	45.67029	.7593161	23.09318
#1	.0225299	.0721220	-.016496
#2	.0085838	.0731663	-.010262
#3	.0147846	.0723402	-.014226

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1575.524	14364.08	1310.390	1199.144	1651.797
Stddev	3.800	267.34	16.460	19.283	6.901
%RSD	.2411884	1.861145	1.256086	1.608093	.4178161
#1	1571.800	14670.97	1311.327	1221.131	1644.369
#2	1575.377	14239.52	1293.482	1191.194	1653.009
#3	1579.396	14181.76	1326.361	1185.106	1658.011

Reviewed By:Mohan
On:1/8/2025 7:28:17 AM
Inst Id :P5

Sample Name: P5127-06DLX5 Acquired: 01/06/2025 21:11:17 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v80) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMB1S Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0201669	.0518197	.0872050	-.019629	.0378612	9.606980	.8662354
Stddev	.0020215	.0020991	.0032877	.001948	.0006071	.119825	.0027811
%RSD	10.02373	4.050783	3.770057	9.924673	1.603551	1.247268	.3210539
#1	.0223817	.0513719	.0881446	-.018845	.0384047	9.521506	.8671474
#2	.0184212	.0499806	.0899207	-.021847	.0372060	9.555491	.8631129
#3	.0196978	.0541065	.0835498	-.018195	.0379730	9.743943	.8684460

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0211923	.0201552	412.1335	.0965726	.2486015	.1273306	28.23818
Stddev	.0002701	.0002467	2.7381	.0014058	.0004034	.0086163	.24353
%RSD	1.274587	1.223945	.6643731	1.455686	.1622828	6.766868	.8624103
#1	.0211396	.0198962	410.4204	.0949643	.2490014	.1362558	28.04978
#2	.0209525	.0201819	410.6886	.0971861	.2486083	.1190606	28.15159
#3	.0214849	.0203875	415.2914	.0975674	.2481946	.1266755	28.51317

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.866544	46.59680	.2321370	.0110234	.2035550	.2100545	.3092555
Stddev	.011761	.60107	.0014642	.0010048	.0270688	.0074040	.0017701
%RSD	.6300754	1.289936	.6307533	9.114768	13.29805	3.524798	.5723805
#1	1.856645	45.93850	.2338182	.0107830	.1761787	.2015092	.3103300
#2	1.863443	46.73551	.2314521	.0101607	.2041808	.2145568	.3072125
#3	1.879544	47.11639	.2311408	.0121266	.2303056	.2140974	.3102240

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.996967	.6299054	-.033334	.0079747	.5238206	1.922138	.0106598
Stddev	.132822	.0008196	.001800	.0008951	.0084288	.020771	.0015029
%RSD	4.431878	.1301178	5.401094	11.22405	1.609100	1.080614	14.09829
#1	3.051972	.6293323	-.032458	.0089721	.5212345	1.921233	.0093518
#2	2.845478	.6308442	-.032140	.0077105	.5332395	1.901834	.0123014
#3	3.093449	.6295396	-.035405	.0072414	.5169879	1.943347	.0103263

Reviewed By:Mohan
On:1/8/2025 7:28:17 AM
Inst Id :P5

Sample Name: P5127-06DLX5 Acquired: 01/06/2025 21:11:17 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v80) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMB1S Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.0315288	.3709792	.0088937
Stddev	.0093791	.0027382	.0075508
%RSD	29.74776	.7381129	84.90111
#1	.0423055	.3697231	.0133572
#2	.0252096	.3690944	.0001756
#3	.0270715	.3741201	.0131482

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1551.795	14017.38	1285.488	1154.422	1521.020
Stddev	3.758	49.83	12.947	6.077	4.236
%RSD	.2421773	.3554766	1.007198	.5264116	.2784715
#1	1548.304	14065.50	1283.507	1147.956	1519.789
#2	1551.310	13966.01	1299.311	1160.016	1517.536
#3	1555.773	14020.65	1273.645	1155.294	1525.735

Reviewed By:Mohan
On:1/8/2025 7:28:17 AM
Inst Id :P5

Sample Name: P5132-17 Acquired: 01/06/2025 21:15:07 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v80) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMJ6 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1754317	.0052613	4.696002	.0407325	.0334009	63.73160
Stddev	.0003174	.0055571	.009398	.0068732	.0036513	1.37366
%RSD	.1809156	105.6212	.2001198	16.87394	10.93185	2.155387
#1	.1751363	-.001022	4.696401	.0476849	.0374055	65.25927
#2	.1757672	.007278	4.705194	.0339414	.0325409	62.59815
#3	.1753915	.009529	4.686411	.0405713	.0302563	63.33738

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.526012	.0055698	.0089961	221.9078	.1527222	.1237893
Stddev	.057137	.0001668	.0000540	5.2414	.0002473	.0003931
%RSD	2.261930	2.995384	.6007847	2.361957	.1619138	.3175520
#1	2.591370	.0057616	.0089765	227.9402	.1525462	.1233727
#2	2.501137	.0054589	.0090572	218.4675	.1526154	.1241537
#3	2.485530	.0054888	.0089545	219.3157	.1530049	.1238416

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6186892	137.9680	10.52945	35.10359	.1943398	-.005715
Stddev	.0121480	3.1735	.23611	.86949	.0007728	.000907
%RSD	1.963510	2.300196	2.242367	2.476938	.3976633	15.87603
#1	.6239278	141.5349	10.79585	36.07550	.1949023	-.004667
#2	.6048008	135.4569	10.34604	34.39954	.1946586	-.006229
#3	.6273389	136.9123	10.44645	34.83572	.1934586	-.006248

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.073785	.1461716	2.481956	5.895692	F 23.42972	-.216702
Stddev	.046205	.0208980	.013032	.347349	.03368	.008859
%RSD	4.303029	14.29690	.5250870	5.891568	.1437292	4.088184
#1	1.120600	.1252458	2.496422	6.277021	23.45417	-.226270
#2	1.028215	.1462274	2.471132	5.597359	23.44369	-.215051
#3	1.072540	.1670417	2.478313	5.812696	23.39131	-.208783

Reviewed By:Mohan
On:1/8/2025 7:28:17 AM
Inst Id :P5

Sample Name: P5132-17 Acquired: 01/06/2025 21:15:07 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v80) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMJ6 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0139496	2.867039	9.751703	.3270967	.8945850	.6093970
Stddev	.0002627	.007647	.268614	.0016109	.0255330	.0136407
%RSD	1.882861	.2667091	2.754538	.4924953	2.854171	2.238389
#1	.0142305	2.866327	10.05995	.3282964	.9240678	.6250796
#2	.0137102	2.875016	9.62747	.3277280	.8797734	.6002873
#3	.0139080	2.859773	9.56769	.3252657	.8799137	.6028241

Elem	Li6707
Units	ppm
Avg	.0691003
Stddev	.0068852
%RSD	9.964127
#1	.0612770
#2	.0742381
#3	.0717859

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1888.386	17191.19	1535.214	1411.385	1571.283
Stddev	4.865	58.99	37.630	8.950	6.047
%RSD	.2576132	.3431160	2.451122	.6341610	.3848350
#1	1883.485	17199.17	1491.770	1406.867	1567.035
#2	1888.458	17245.78	1556.232	1421.694	1568.608
#3	1893.214	17128.62	1557.640	1405.594	1578.206

Reviewed By:Mohan
On:1/8/2025 7:28:17 AM
Inst Id :P5

Sample Name: P5132-18 Acquired: 01/06/2025 21:18:56 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v80) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMJ6D Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1098741	.0109526	8.874143	.0171637	.0233162	54.75176
Stddev	.0004177	.0081211	.010766	.0051835	.0042664	1.20210
%RSD	.3801841	74.14749	.1213137	30.20049	18.29821	2.195551
#1	.1103452	.0133687	8.863257	.0214912	.0206321	53.38917
#2	.1095490	.0018977	8.884784	.0185810	.0282358	55.20378
#3	.1097281	.0175914	8.874388	.0114190	.0210806	55.66233

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.622506	.0049893	.0081756	191.0921	.1372416	.1044982
Stddev	.068800	.0002189	.0001996	4.9720	.0014710	.0011185
%RSD	2.623452	4.387645	2.441688	2.601875	1.071856	1.070393
#1	2.543749	.0047369	.0082056	185.4271	.1377793	.1054164
#2	2.652857	.0051285	.0083585	193.1174	.1355773	.1032524
#3	2.670912	.0051024	.0079627	194.7317	.1383681	.1048258

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5531416	111.2049	9.806978	32.58772	.1450502	-.005236
Stddev	.0023461	2.3613	.208270	.74412	.0012700	.001071
%RSD	.4241426	2.123336	2.123695	2.283427	.8755797	20.44818
#1	.5527390	108.4906	9.573680	31.72849	.1464951	-.005504
#2	.5556629	112.3395	9.873072	33.01616	.1445452	-.006147
#3	.5510228	112.7848	9.974181	33.01851	.1441104	-.004057

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8465928	.1331720	2.215427	5.644871	F 17.19954	-.165251
Stddev	.0159444	.0073283	.016827	.092925	.02523	.005706
%RSD	1.883364	5.502914	.7595525	1.646187	.1466681	3.453083
#1	.8515369	.1415707	2.222331	5.563866	17.18029	-.162986
#2	.8287620	.1280772	2.196246	5.624432	17.22810	-.161025
#3	.8594796	.1298683	2.227705	5.746314	17.19023	-.171742

Reviewed By:Mohan
On:1/8/2025 7:28:17 AM
Inst Id :P5

Sample Name: P5132-18 Acquired: 01/06/2025 21:18:56 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v80) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMJ6D Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0110318	2.729066	9.708173	.3647137	.9472013	.5367980
Stddev	.0002566	.002888	.142968	.0009629	.0219584	.0122590
%RSD	2.325793	.1058236	1.472660	.2640288	2.318240	2.283728
#1	.0112648	2.726566	9.574632	.3647551	.9245197	.5230335
#2	.0110738	2.728404	9.690888	.3637307	.9487273	.5408190
#3	.0107568	2.732227	9.858998	.3656553	.9683569	.5465415

Elem	Li6707
Units	ppm
Avg	.0475489
Stddev	.0016146
%RSD	3.395640
#1	.0484605
#2	.0485015
#3	.0456847

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1872.303	17002.81	1487.525	1398.250	1580.067
Stddev	4.627	2.53	22.494	5.274	.767
%RSD	.2471219	.0148997	1.512146	.3772035	.0485730
#1	1877.576	17002.22	1509.539	1396.128	1580.033
#2	1870.410	17005.59	1488.455	1404.255	1580.851
#3	1868.922	17000.63	1464.580	1394.367	1579.317

Reviewed By:Mohan
On:1/8/2025 7:28:17 AM
Inst Id :P5

Sample Name: P5132-17LX5 Acquired: 01/06/2025 21:22:43 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v80) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMJ6L Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0149326	.0101638	1.785175	-.013681	.0042770	12.48017	.5922133
Stddev	.0038920	.0033083	.004890	.004041	.0022466	.14215	.0067251
%RSD	26.06382	32.54948	.2739061	29.53559	52.52835	1.139028	1.135585
#1	.0191275	.0117968	1.789929	-.017952	.0017851	12.31645	.5847160
#2	.0142316	.0063566	1.785437	-.009918	.0048982	12.57228	.5977142
#3	.0114387	.0123381	1.780160	-.013175	.0061476	12.55177	.5942096

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0008064	.0015597	43.52518	.0322502	.0327742	.1211477	25.19281
Stddev	.0000581	.0001008	.28364	.0012587	.0003867	.0167927	.19871
%RSD	7.199582	6.462974	.6516712	3.902779	1.180015	13.86136	.7887395
#1	.0008724	.0016263	43.20117	.0328274	.0329220	.1230726	24.97163
#2	.0007837	.0016090	43.72859	.0308064	.0330652	.1034755	25.35625
#3	.0007632	.0014437	43.64577	.0331167	.0323353	.1368951	25.25056

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.266214	7.412533	.0286433	-.001992	-.007819	.0262384	.5251552
Stddev	.016152	.074998	.0008238	.002062	.026782	.0148754	.0039316
%RSD	.7127317	1.011778	2.875877	103.5618	342.5265	56.69310	.7486593
#1	2.247580	7.339022	.0294579	-.003602	.004112	.0209614	.5228358
#2	2.276200	7.488935	.0278107	-.002706	-.038494	.0430328	.5229351
#3	2.274864	7.409643	.0286613	.000333	.010924	.0147209	.5296947

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.033247	3.381514	-.046299	.0049623	.5361599	2.243625	.0702925
Stddev	.120994	.006738	.002964	.0004862	.0082631	.007413	.0016288
%RSD	11.71008	.1992672	6.402819	9.797190	1.541162	.3303829	2.317172
#1	1.168120	3.386025	-.044206	.0055027	.5393910	2.241773	.0720629
#2	.934243	3.384749	-.049692	.0048238	.5423192	2.251788	.0699571
#3	.997377	3.373768	-.045000	.0045605	.5267695	2.237314	.0688576

Reviewed By:Mohan
On:1/8/2025 7:28:17 AM
Inst Id :P5

Sample Name: P5132-17LX5 Acquired: 01/06/2025 21:22:43 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v80) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMJ6L Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.2129775	.1221989	-.008352
Stddev	.0025916	.0005959	.006514
%RSD	1.216851	.4876194	77.98574
#1	.2113086	.1215497	-.001278
#2	.2159631	.1223262	-.014102
#3	.2116608	.1227209	-.009678

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1656.740	14982.68	1335.799	1238.459	1682.760
Stddev	4.740	30.38	8.224	9.152	2.558
%RSD	.2860769	.2027744	.6156869	.7389581	.1520238
#1	1661.822	15013.65	1342.909	1247.459	1685.522
#2	1655.959	14981.46	1326.792	1238.757	1682.287
#3	1652.440	14952.93	1337.696	1229.163	1680.471

Reviewed By:Mohan
On:1/8/2025 7:28:17 AM
Inst Id :P5

Sample Name: P5132-19 Acquired: 01/06/2025 21:26:35 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v80) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMJ6S Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1832132	.0904892	8.848384	.1480326	.1606330	55.88583
Stddev	.0036658	.0019443	.014078	.0040379	.0057612	.31545
%RSD	2.000860	2.148700	.1591066	2.727737	3.586552	.5644591
#1	.1796825	.0919197	8.848722	.1510711	.1629482	55.52516
#2	.1829564	.0882754	8.862291	.1495760	.1648765	56.02200
#3	.1870007	.0912725	8.834140	.1434506	.1540744	56.11032

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.718605	.0850311	.0985697	183.9555	.4723960	1.052659
Stddev	.020079	.0006022	.0001785	.4739	.0012545	.001047
%RSD	.3511230	.7081895	.1811210	.2576230	.2655670	.0994859
#1	5.731382	.0843505	.0987412	184.4175	.4709474	1.053515
#2	5.695461	.0852482	.0983849	183.4705	.4731147	1.052970
#3	5.728972	.0854947	.0985829	183.9786	.4731259	1.051491

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9277961	108.1274	10.25676	31.34202	1.090634	.0496158
Stddev	.0013589	.3634	.02308	.05431	.000572	.0006009
%RSD	.1464670	.3360972	.2249944	.1732760	.0524246	1.211020
#1	.9293474	107.7402	10.23130	31.29077	1.090493	.0493098
#2	.9268166	108.4612	10.26269	31.39894	1.091264	.0492295
#3	.9272241	108.1808	10.27630	31.33634	1.090147	.0503080

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8143715	.9416921	2.922506	5.322556	F 17.04876	-.161099
Stddev	.0157730	.0031003	.020703	.208767	.01803	.002732
%RSD	1.936828	.3292230	.7084070	3.922307	.1057765	1.695618
#1	.7965165	.9446036	2.942056	5.552744	17.04297	-.157946
#2	.8201871	.9384325	2.924645	5.145464	17.06898	-.162745
#3	.8264111	.9420402	2.900816	5.269460	17.03434	-.162607

Reviewed By:Mohan
On:1/8/2025 7:28:17 AM
Inst Id :P5

Sample Name: P5132-19 Acquired: 01/06/2025 21:26:35 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v80) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMJ6S Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0112921	2.707452	9.399997	.3629719	.9070968	.5153937
Stddev	.0012050	.006288	.055446	.0027014	.0025296	.0018330
%RSD	10.67110	.2322319	.5898468	.7442377	.2788689	.3556484
#1	.0112527	2.702980	9.336655	.3602216	.9071661	.5145823
#2	.0101073	2.714641	9.423603	.3656216	.9095910	.5141065
#3	.0125163	2.704734	9.439734	.3630725	.9045332	.5174924

Elem	Li6707
Units	ppm
Avg	.0463758
Stddev	.0055476
%RSD	11.96234
#1	.0431804
#2	.0431653
#3	.0527816

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1864.235	16974.37	1518.545	1389.158	1579.243
Stddev	3.557	57.59	5.287	12.929	3.031
%RSD	.1907951	.3392621	.3481830	.9307152	.1919524
#1	1860.161	16950.05	1523.997	1376.472	1575.830
#2	1865.826	16932.93	1513.440	1388.684	1580.274
#3	1866.719	17040.13	1518.198	1402.317	1581.624

Reviewed By:Mohan
On:1/8/2025 7:28:17 AM
Inst Id :P5

Sample Name: P5124-09 Acquired: 01/06/2025 21:30:23 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v80) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHM78 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2105125	-.021797	4.458890	.0810633	.0532321	57.79202
Stddev	.0064819	.002717	.004662	.0017279	.0054449	.30346
%RSD	3.079122	12.46685	.1045634	2.131508	10.22852	.5250819
#1	.2163057	-.020449	4.457276	.0830499	.0524064	57.47533
#2	.2035116	-.024925	4.455249	.0802304	.0482472	57.82048
#3	.2117202	-.020017	4.464145	.0799097	.0590426	58.08024

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.964164	.0076370	.0082127	170.8311	.2200599	.1224806
Stddev	.011432	.0001163	.0001823	.4545	.0006431	.0003119
%RSD	.5820484	1.523335	2.219215	.2660532	.2922587	.2546842
#1	1.952120	.0077690	.0080083	170.3136	.2207425	.1221276
#2	1.974866	.0075926	.0083583	171.1652	.2194652	.1225952
#3	1.965506	.0075495	.0082715	171.0145	.2199720	.1227190

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8868035	199.9073	8.312666	54.18217	.2719718	-.021005
Stddev	.0050496	1.1479	.040246	.16966	.0018042	.001784
%RSD	.5694160	.5742095	.4841515	.3131250	.6633901	8.493946
#1	.8829605	198.5846	8.266391	54.07547	.2699124	-.019510
#2	.8849273	200.4951	8.339508	54.09323	.2732741	-.022980
#3	.8925226	200.6423	8.332099	54.37780	.2727290	-.020524

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9578927	.2062442	2.562435	6.720991	F 14.40457	-.325763
Stddev	.0204422	.0072119	.011143	.114357	.01223	.000305
%RSD	2.134085	3.496775	.4348696	1.701493	.0848978	.0936283
#1	.9508486	.1987400	2.551012	6.649232	14.39670	-.325871
#2	.9419040	.2131231	2.563017	6.660873	14.39835	-.325999
#3	.9809256	.2068693	2.573276	6.852868	14.41866	-.325419

Reviewed By:Mohan
On:1/8/2025 7:28:17 AM
Inst Id :P5

Sample Name: P5124-09 Acquired: 01/06/2025 21:30:23 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v80) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHM78 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0191366	6.237223	8.037570	.3514234	1.117731	.3083685
Stddev	.0003100	.008057	.003073	.0012231	.008313	.0012463
%RSD	1.619728	.1291742	.0382319	.3480340	.7437237	.4041434
#1	.0190029	6.238086	8.036364	.3505098	1.108638	.3074913
#2	.0194910	6.244814	8.035284	.3528129	1.119616	.3078190
#3	.0189160	6.228769	8.041064	.3509474	1.124940	.3097950

Elem	Li6707
Units	ppm
Avg	.0630126
Stddev	.0025706
%RSD	4.079459
#1	.0606434
#2	.0657458
#3	.0626486

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1802.815	16273.14	1484.868	1345.889	1631.160
Stddev	2.727	33.33	1.298	3.991	2.491
%RSD	.1512460	.2048143	.0874245	.2965254	.1526879
#1	1803.695	16262.20	1486.224	1350.279	1630.599
#2	1799.757	16246.65	1483.636	1344.905	1628.998
#3	1804.993	16310.56	1484.743	1342.482	1633.883

Reviewed By:Mohan
On:1/8/2025 7:28:17 AM
Inst Id :P5

Sample Name: P5124-10 Acquired: 01/06/2025 21:34:10 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v80) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHM79 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2430046	-.024105	4.122002	.0756410	.0517546	54.83208
Stddev	.0037546	.001628	.009180	.0084124	.0011641	.26222
%RSD	1.545067	6.753579	.2227123	11.12150	2.249290	.4782211
#1	.2467506	-.022321	4.129121	.0849682	.0504446	54.75694
#2	.2392415	-.024483	4.111641	.0686276	.0526707	54.61564
#3	.2430218	-.025511	4.125246	.0733272	.0521484	55.12367

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.722135	.0074396	.0075764	216.4190	.1817427	.1199031
Stddev	.013536	.0003026	.0001470	1.3620	.0013743	.0005422
%RSD	.7860150	4.067846	1.940058	.6293446	.7561596	.4521971
#1	1.714458	.0073269	.0074864	215.7246	.1832537	.1203064
#2	1.714182	.0077824	.0074968	215.5441	.1805674	.1192868
#3	1.737764	.0072095	.0077461	217.9883	.1814069	.1201163

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7605504	206.9752	7.367083	54.26007	.2381980	-.020241
Stddev	.0195549	1.2541	.028845	.22960	.0011809	.002508
%RSD	2.571154	.6058959	.3915379	.4231478	.4957639	12.39037
#1	.7413813	206.9302	7.367831	54.06203	.2378628	-.020894
#2	.7598005	205.7442	7.337872	54.20644	.2372209	-.022357
#3	.7804695	208.2512	7.395547	54.51173	.2395102	-.017471

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.035261	.2131823	2.401846	5.107357	F 13.29429	-.345429
Stddev	.016049	.0118831	.014342	.153301	.01565	.003108
%RSD	1.550215	5.574154	.5971215	3.001574	.1177389	.8998902
#1	1.039761	.2107170	2.396231	5.054565	13.31236	-.348914
#2	1.017443	.2027252	2.418146	4.987429	13.28481	-.342943
#3	1.048580	.2261047	2.391161	5.280078	13.28571	-.344431

Reviewed By:Mohan
On:1/8/2025 7:28:17 AM
Inst Id :P5

Sample Name: P5124-10 Acquired: 01/06/2025 21:34:10 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v80) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHM79 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0174350	5.242779	8.384366	.4156902	1.010704	.3494340
Stddev	.0011156	.014054	.051969	.0018347	.007597	.0020736
%RSD	6.398605	.2680651	.6198270	.4413532	.7516394	.5934029
#1	.0170699	5.244890	8.439339	.4165624	1.004958	.3474141
#2	.0186874	5.227789	8.377719	.4135822	1.007836	.3493306
#3	.0165477	5.255658	8.336041	.4169260	1.019317	.3515573

Elem	Li6707
Units	ppm
Avg	.0625310
Stddev	.0034963
%RSD	5.591317
#1	.0637722
#2	.0652373
#3	.0585834

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1791.871	16239.38	1464.468	1339.869	1617.277
Stddev	4.651	55.30	1.204	10.057	3.534
%RSD	.2595492	.3405166	.0822157	.7505778	.2184941
#1	1793.991	16248.83	1463.363	1351.358	1619.411
#2	1786.538	16289.35	1465.751	1332.661	1613.198
#3	1795.084	16179.97	1464.289	1335.589	1619.222

Reviewed By:Mohan
On:1/8/2025 7:28:17 AM
Inst Id :P5

Sample Name: P5124-11 Acquired: 01/06/2025 21:37:56 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v80) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHM80 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1961156	-.031147	3.557799	.0830197	.0575833	51.15802
Stddev	.0016363	.003952	.003900	.0036261	.0031751	.14801
%RSD	.8343755	12.68845	.1096124	4.367778	5.513904	.2893251
#1	.1966779	-.031922	3.556468	.0830492	.0595776	51.20455
#2	.1973967	-.026864	3.562189	.0866310	.0592504	51.27718
#3	.1942722	-.034654	3.554738	.0793789	.0539219	50.99233

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.433241	.0078661	.0060119	200.7516	.1652373	.1164911
Stddev	.016007	.0001992	.0000547	.9063	.0016820	.0003915
%RSD	1.116872	2.533014	.9099414	.4514472	1.017923	.3360492
#1	1.430446	.0078627	.0059724	200.2210	.1669701	.1163683
#2	1.450462	.0080670	.0060743	201.7981	.1651305	.1169292
#3	1.418815	.0076685	.0059889	200.2358	.1636113	.1161757

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9077087	219.6096	4.889612	49.03211	.2248754	-.022188
Stddev	.0048440	.8325	.020100	.21543	.0015446	.000023
%RSD	.5336524	.3790660	.4110662	.4393605	.6868564	.1044063
#1	.9021172	219.9353	4.880499	48.90735	.2246446	-.022162
#2	.9103800	220.2300	4.912654	49.28086	.2265224	-.022206
#3	.9106290	218.6635	4.875683	48.90811	.2234593	-.022196

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.183995	.2079827	2.249119	4.406741	F 15.26310	-.384346
Stddev	.022044	.0069435	.014966	.101171	.01034	.003548
%RSD	1.861857	3.338490	.6654084	2.295830	.0677573	.9232332
#1	1.161786	.2006313	2.254512	4.357604	15.25889	-.381841
#2	1.184329	.2144297	2.232204	4.523097	15.27489	-.388406
#3	1.205871	.2088871	2.260640	4.339524	15.25553	-.382790

Reviewed By:Mohan
On:1/8/2025 7:28:17 AM
Inst Id :P5

Sample Name: P5124-11 Acquired: 01/06/2025 21:37:56 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v80) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHM80 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0386986	4.594645	8.080124	.2841464	1.099833	.3849941
Stddev	.0016591	.006735	.062366	.0004596	.005950	.0013069
%RSD	4.287307	.1465756	.7718445	.1617590	.5410254	.3394508
#1	.0368105	4.586900	8.068088	.2843081	1.097125	.3835075
#2	.0393613	4.599121	8.147631	.2845034	1.106656	.3859622
#3	.0399239	4.597914	8.024653	.2836278	1.095718	.3855125

Elem	Li6707
Units	ppm
Avg	.0647086
Stddev	.0029288
%RSD	4.526151
#1	.0680755
#2	.0633010
#3	.0627494

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1767.709	16064.62	1455.706	1320.715	1622.817
Stddev	3.156	45.27	9.626	8.373	4.560
%RSD	.1785460	.2817984	.6612878	.6339567	.2810221
#1	1770.892	16053.25	1456.040	1317.630	1626.914
#2	1764.581	16026.12	1445.917	1330.193	1617.903
#3	1767.653	16114.49	1465.162	1314.323	1623.633

Reviewed By:Mohan
On:1/8/2025 7:28:17 AM
Inst Id :P5

Sample Name: P5124-12 Acquired: 01/06/2025 21:41:44 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v80) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHM81 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2050404	-.058855	2.944525	.1448985	.0853789	38.44575
Stddev	.0011238	.002512	.005284	.0054042	.0043544	.09406
%RSD	.5480978	4.268751	.1794405	3.729674	5.100068	.2446505
#1	.2039915	-.056195	2.950591	.1501545	.0814793	38.37231
#2	.2062266	-.061188	2.942049	.1393573	.0900774	38.55176
#3	.2049032	-.059181	2.940933	.1451838	.0845801	38.41318

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.128368	.0081469	.0039554	121.2617	.1041296	.1797067
Stddev	.004335	.0001483	.0000959	.5241	.0014663	.0009477
%RSD	.3842206	1.820120	2.424020	.4322069	1.408201	.5273504
#1	1.129757	.0083174	.0039502	121.2002	.1047232	.1798489
#2	1.131839	.0080749	.0040538	121.8139	.1024594	.1786959
#3	1.123508	.0080483	.0038622	120.7711	.1052060	.1805752

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8715012	306.6374	5.191881	29.27413	.1714329	-.032632
Stddev	.0102723	1.1553	.029093	.10952	.0001945	.001698
%RSD	1.178689	.3767621	.5603556	.3741110	.1134608	5.202216
#1	.8779716	305.8276	5.188508	29.19458	.1712104	-.031553
#2	.8596566	307.9604	5.222514	29.39904	.1715174	-.031754
#3	.8768753	306.1242	5.164622	29.22877	.1715708	-.034589

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.110896	.1705821	1.716570	3.117855	F 10.85637	-.576142
Stddev	.015699	.0078011	.014627	.080272	.01140	.002799
%RSD	1.413211	4.573205	.8521352	2.574606	.1050524	.4858136
#1	1.100663	.1701384	1.701516	3.203683	10.84811	-.576864
#2	1.103053	.1630124	1.730730	3.105252	10.86938	-.578510
#3	1.128971	.1785956	1.717464	3.044629	10.85161	-.573053

Reviewed By:Mohan
On:1/8/2025 7:28:17 AM
Inst Id :P5

Sample Name: P5124-12 Acquired: 01/06/2025 21:41:44 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v80) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHM81 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0220634	3.772134	7.507610	.2083383	.8485338	.1392019
Stddev	.0008491	.004605	.042829	.0023715	.0064163	.0002402
%RSD	3.848466	.1220880	.5704729	1.138285	.7561585	.1725439
#1	.0210831	3.767021	7.553127	.2058047	.8445829	.1391599
#2	.0225676	3.773423	7.468104	.2105048	.8559371	.1394604
#3	.0225396	3.775957	7.501599	.2087054	.8450814	.1389855

Elem	Li6707
Units	ppm
Avg	.0292918
Stddev	.0059002
%RSD	20.14290
#1	.0224902
#2	.0330331
#3	.0323522

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1706.170	15453.60	1377.753	1266.160	1677.027
Stddev	2.911	27.77	7.309	14.934	2.194
%RSD	.1705881	.1797027	.5305021	1.179477	.1308248
#1	1705.589	15434.04	1370.145	1275.360	1675.469
#2	1703.594	15441.37	1378.392	1248.929	1676.076
#3	1709.328	15485.38	1384.721	1274.192	1679.536

Reviewed By:Mohan
On:1/8/2025 7:28:17 AM
Inst Id :P5

Sample Name: P5124-13 Acquired: 01/06/2025 21:45:31 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v80) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHM82 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1239191	-.047957	.9361867	.1054866	.0527511	96.14893	1.597315
Stddev	.0024175	.002906	.0027589	.0037436	.0041018	.58815	.011510
%RSD	1.950868	6.058827	.2946912	3.548894	7.775708	.6117029	.7206080
#1	.1230754	-.051305	.9336860	.1092633	.0528772	96.48194	1.609329
#2	.1266454	-.046093	.9391462	.1017770	.0567884	96.49501	1.596232
#3	.1220365	-.046474	.9357279	.1054194	.0485878	95.46984	1.586384

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0058764	.0045112	75.72117	.2642614	.1780868	.2260194	214.4997
Stddev	.0000698	.0001410	.65473	.0015704	.0006408	.0017856	.9247
%RSD	1.187528	3.124950	.8646561	.5942575	.3597974	.7900120	.4311177
#1	.0058481	.0044170	76.41389	.2654439	.1775703	.2245860	215.3577
#2	.0058252	.0044433	75.63705	.2648607	.1778862	.2280195	214.6212
#3	.0059559	.0046733	75.11256	.2624796	.1788038	.2254526	213.5202

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	13.67173	61.65096	.2044154	-.022893	.6076280	.4658993	.7526426
Stddev	.05049	.45275	.0010988	.001283	.0267002	.0080022	.0017999
%RSD	.3693168	.7343691	.5375426	5.603677	4.394167	1.717584	.2391438
#1	13.73001	61.81856	.2036646	-.023981	.6383673	.4748758	.7544518
#2	13.64416	61.99600	.2039049	-.023218	.5943131	.4633089	.7526237
#3	13.64104	61.13831	.2056766	-.021478	.5902036	.4595131	.7508522

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	28.55190	7.820686	-.393224	.0135867	2.058655	8.817608	.0566648
Stddev	.15191	.022402	.002348	.0007187	.005865	.031406	.0010570
%RSD	.5320615	.2864502	.5970413	5.289777	.2848900	.3561708	1.865425
#1	28.72049	7.795098	-.392158	.0127614	2.057880	8.852565	.0576810
#2	28.50955	7.830191	-.391599	.0139246	2.053216	8.791773	.0567422
#3	28.42565	7.836768	-.395916	.0140742	2.064869	8.808485	.0555712

Reviewed By:Mohan
On:1/8/2025 7:28:17 AM
Inst Id :P5

Sample Name: P5124-13 Acquired: 01/06/2025 21:45:31 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v80) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHM82 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	11.36387	.0021734	.0999464
Stddev	.08697	.0005726	.0049347
%RSD	.7653532	26.34633	4.937391
#1	11.44104	.0027810	.0951827
#2	11.38094	.0020953	.0996206
#3	11.26962	.0016438	.1050360

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1987.663	17922.13	1611.830	1477.339	1606.158
Stddev	1.743	52.76	8.155	5.270	4.033
%RSD	.0876682	.2943608	.5059239	.3567338	.2510819
#1	1988.988	17863.40	1602.418	1471.332	1608.965
#2	1985.690	17937.51	1616.305	1479.495	1601.537
#3	1988.312	17965.49	1616.768	1481.189	1607.973

Reviewed By:Mohan
On:1/8/2025 7:28:17 AM
Inst Id :P5

Sample Name: P5124-14 Acquired: 01/06/2025 21:49:18 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v80) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHM83 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0455739	.0325809	.1618330	.0144331	.0138517	42.31226
Stddev	.0020923	.0026405	.0007957	.0027711	.0019630	.34795
%RSD	4.591081	8.104362	.4917060	19.19977	14.17147	.8223465
#1	.0461513	.0339559	.1609184	.0162165	.0119484	41.95994
#2	.0473169	.0342500	.1622143	.0112406	.0137375	42.32115
#3	.0432535	.0295366	.1623664	.0158422	.0158694	42.65568

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6017388	.0026583	.0020185	F 1107.170	.0835993	.1165295
Stddev	.0038492	.0000389	.0001720	7.144	.0014194	.0010723
%RSD	.6396837	1.463241	8.518540	.6452731	1.697830	.9201513
#1	.5985840	.0026635	.0018249	1103.163	.0820078	.1153000
#2	.6006047	.0026170	.0021533	1102.928	.0847340	.1170180
#3	.6060276	.0026942	.0020774	1115.418	.0840562	.1172705

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1589442	109.3131	12.31042	104.0495	.1253903	-.010557
Stddev	.0100764	.6377	.05161	1.0161	.0003853	.000557
%RSD	6.339553	.5833993	.4192235	.9765150	.3072962	5.273200
#1	.1661524	108.8126	12.27910	103.2166	.1252630	-.010904
#2	.1474303	109.0957	12.28217	103.7504	.1258231	-.010852
#3	.1632500	110.0312	12.36998	105.1815	.1250847	-.009915

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.184822	.1167621	.3284553	5.452211	F 11.48065	-.172889
Stddev	.011405	.0109744	.0024421	.104391	.02887	.003701
%RSD	.9625787	9.398938	.7435189	1.914657	.2514836	2.140490
#1	1.197904	.1150910	.3310637	5.529359	11.45091	-.175043
#2	1.179590	.1284761	.3262231	5.493846	11.48248	-.168616
#3	1.176972	.1067190	.3280791	5.333427	11.50857	-.175007

Reviewed By:Mohan
On:1/8/2025 7:28:17 AM
Inst Id :P5

Sample Name: P5124-14 Acquired: 01/06/2025 21:49:18 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v80) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHM83 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0046515	1.285186	6.722385	.0304537	1.106122	1.781677
Stddev	.0014061	.013509	.034838	.0010265	.009317	.013749
%RSD	30.22876	1.051161	.5182407	3.370771	.8423008	.7716930
#1	.0053048	1.290922	6.724193	.0313924	1.097329	1.770892
#2	.0056120	1.269755	6.686678	.0293576	1.115887	1.776980
#3	.0030376	1.294882	6.756284	.0306112	1.105151	1.797160

Elem	Li6707
Units	ppm
Avg	.0707391
Stddev	.0043680
%RSD	6.174851
#1	.0661700
#2	.0711738
#3	.0748735

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1809.643	16413.27	1514.942	1342.880	1411.814
Stddev	6.370	37.50	9.817	3.654	4.415
%RSD	.3520240	.2284602	.6480025	.2721211	.3126955
#1	1816.864	16455.24	1517.258	1342.715	1416.856
#2	1804.819	16383.07	1523.395	1346.614	1409.946
#3	1807.246	16401.50	1504.175	1339.311	1408.641

Reviewed By:Mohan
On:1/8/2025 7:28:17 AM
Inst Id :P5

Sample Name: P5121-10ARE Acquired: 01/06/2025 21:53:29 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v80) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHM51A Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1990431	.0297347	4.922323	.1842304	.1270288	71.44515
Stddev	.0024813	.0080938	.018466	.0081949	.0030320	.44429
%RSD	1.246593	27.22023	.3751506	4.448151	2.386876	.6218565
#1	.1983995	.0300472	4.901079	.1747725	.1235359	71.09597
#2	.2017828	.0376678	4.934530	.1887026	.1289825	71.29424
#3	.1969471	.0214891	4.931359	.1892163	.1285679	71.94523

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.406268	.0107169	.0180589	339.2540	.1808166	.1408721
Stddev	.028641	.0001330	.0000948	2.9724	.0008227	.0013182
%RSD	1.190273	1.240877	.5250101	.8761584	.4550062	.9357700
#1	2.383254	.0107447	.0179508	336.9806	.1817284	.1394226
#2	2.397205	.0108338	.0180978	338.1639	.1805914	.1419992
#3	2.438344	.0105722	.0181280	342.6176	.1801298	.1411945

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7762917	189.9229	7.826422	107.7677	.2209093	.0131359
Stddev	.0147588	1.8316	.072225	.8745	.0008071	.0004577
%RSD	1.901197	.9643954	.9228323	.8114877	.3653439	3.484686
#1	.7816057	188.8246	7.780000	107.1838	.2200084	.0126076
#2	.7596117	188.9068	7.789631	107.3461	.2215663	.0134125
#3	.7876577	192.0374	7.909634	108.7731	.2211531	.0133878

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.020006	.1914632	4.021940	9.340526	F 18.44972	-.258967
Stddev	.019482	.0157145	.016416	.265791	.09003	.004538
%RSD	.9644502	8.207586	.4081528	2.845564	.4879872	1.752320
#1	2.039239	.1741132	4.005524	9.593174	18.34654	-.257908
#2	2.020493	.2047402	4.038356	9.063300	18.51235	-.263941
#3	2.000284	.1955362	4.021938	9.365103	18.49026	-.255052

Reviewed By:Mohan
On:1/8/2025 7:28:17 AM
Inst Id :P5

Sample Name: P5121-10ARE Acquired: 01/06/2025 21:53:29 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v80) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHM51A Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0139739	5.604820	9.977332	.3313482	1.119227	.6427478
Stddev	.0011212	.041303	.026593	.0036306	.011037	.0029546
%RSD	8.023596	.7369212	.2665318	1.095690	.9861261	.4596865
#1	.0126859	5.557560	10.00672	.3275008	1.114687	.6408169
#2	.0147317	5.633998	9.97034	.3347137	1.111184	.6412775
#3	.0145041	5.622903	9.95494	.3318302	1.131810	.6461492

Elem	Li6707
Units	ppm
Avg	.0688543
Stddev	.0022821
%RSD	3.314383
#1	.0704864
#2	.0662466
#3	.0698299

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1837.289	16666.69	1521.087	1357.547	1524.342
Stddev	8.828	48.54	5.138	3.959	8.175
%RSD	.4804712	.2912200	.3377710	.2916596	.5362780
#1	1847.175	16657.47	1515.818	1360.078	1533.725
#2	1830.195	16623.43	1521.360	1352.984	1520.540
#3	1834.498	16719.18	1526.083	1359.578	1518.760

Reviewed By:Mohan
On:1/8/2025 7:28:17 AM
Inst Id :P5

Sample Name: P5127-04ARE2 Acquired: 01/06/2025 21:57:15 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v80) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMB1A Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0585982	.0215715	.3569026	.0647628	.0132608	40.12427
Stddev	.0055931	.0029642	.0058987	.0068619	.0018537	.32103
%RSD	9.544756	13.74148	1.652746	10.59538	13.97885	.8000914
#1	.0557632	.0246828	.3561666	.0707083	.0149619	39.90357
#2	.0549904	.0187802	.3514064	.0663259	.0112851	40.49255
#3	.0650411	.0212516	.3631347	.0572543	.0135355	39.97669

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3577951	.0047432	.0021633	F 1704.917	.0565606	.1211850
Stddev	.0050549	.0002095	.0001434	8.432	.0011636	.0003202
%RSD	1.412801	4.416260	6.628390	.4945832	2.057235	.2642219
#1	.3519591	.0049113	.0020285	1696.320	.0578712	.1213188
#2	.3608021	.0045085	.0023139	1713.174	.0556488	.1214167
#3	.3606241	.0048097	.0021475	1705.258	.0561620	.1208196

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1841253	117.2320	6.900255	190.6937	.1409438	.0032968
Stddev	.0057429	.8799	.044177	.7893	.0007169	.0024542
%RSD	3.118999	.7505272	.6402269	.4139257	.5086319	74.44300
#1	.1789755	116.2699	6.855090	190.0682	.1410338	.0029621
#2	.1830824	117.9957	6.943374	191.5806	.1401861	.0010271
#3	.1903182	117.4304	6.902302	190.4324	.1416114	.0059012

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.623147	.0716870	.5830482	14.83468	3.233192	-.096449
Stddev	.007590	.0103834	.0057040	.07819	.012284	.000851
%RSD	.4675989	14.48428	.9783096	.5270696	.3799218	.8823445
#1	1.622315	.0836614	.5769925	14.92419	3.239572	-.095515
#2	1.631118	.0662237	.5838329	14.77971	3.219031	-.096651
#3	1.616007	.0651759	.5883193	14.80014	3.240973	-.097180

Reviewed By:Mohan
On:1/8/2025 7:28:17 AM
Inst Id :P5

Sample Name: P5127-04ARE2 Acquired: 01/06/2025 21:57:15 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v80) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMB1A Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0015890	2.694166	10.49625	.0320928	.1674548	1.581806
Stddev	.0008046	.003270	.08104	.0031981	.0186366	.010415
%RSD	50.63680	.1213666	.7720494	9.965137	11.12932	.6584475
#1	.0010936	2.695809	10.55154	.0308193	.1582330	1.573497
#2	.0025173	2.690401	10.53397	.0357315	.1552270	1.593490
#3	.0011559	2.696289	10.40322	.0297277	.1889043	1.578430

Elem	Li6707
Units	ppm
Avg	.0870510
Stddev	.0021837
%RSD	2.508528
#1	.0887384
#2	.0845846
#3	.0878298

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1624.108	14831.84	1383.764	1204.643	1342.486
Stddev	10.101	61.70	6.874	10.801	6.879
%RSD	.6219330	.4160296	.4967680	.8966155	.5124171
#1	1622.204	14786.84	1385.295	1216.720	1342.000
#2	1635.025	14806.50	1376.253	1201.302	1349.595
#3	1615.095	14902.18	1389.743	1195.908	1335.863

Reviewed By:Mohan
On:1/8/2025 7:28:17 AM
Inst Id :P5

Sample Name: P5128-19A Acquired: 01/06/2025 22:01:05 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v80) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMK9A Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2154496	.0266563	5.182975	.1475302	.1247699	65.76203
Stddev	.0004804	.0028368	.017400	.0035526	.0012994	.37799
%RSD	.2229732	10.64196	.3357169	2.408059	1.041464	.5747773
#1	.2156288	.0294550	5.164405	.1449836	.1247454	65.55376
#2	.2149053	.0267310	5.185618	.1460185	.1260814	66.19834
#3	.2158145	.0237830	5.198903	.1515887	.1234829	65.53399

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.941498	.0070966	.0145129	88.57917	.1685170	.1320668
Stddev	.014968	.0002358	.0000769	.45209	.0001074	.0008056
%RSD	.7709497	3.323117	.5296122	.5103813	.0637384	.6100260
#1	1.925926	.0069760	.0144320	88.15722	.1686304	.1311821
#2	1.955778	.0073683	.0145850	89.05633	.1685039	.1322601
#3	1.942791	.0069455	.0145216	88.52397	.1684168	.1327583

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6334314	202.2184	15.40586	29.42548	.2325338	.0011309
Stddev	.0136546	1.7005	.12509	.17952	.0015583	.0017800
%RSD	2.155654	.8409188	.8119450	.6100852	.6701539	157.3909
#1	.6264210	200.8111	15.28170	29.35625	.2307404	.0029745
#2	.6491673	204.1079	15.53185	29.62931	.2333037	.0009962
#3	.6247060	201.7361	15.40403	29.29088	.2335575	-.000578

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5048379	.1715599	3.210148	8.497203	F 11.36023	-.366649
Stddev	.0083663	.0087355	.022692	.268919	.01994	.001511
%RSD	1.657228	5.091779	.7068776	3.164790	.1755391	.4122348
#1	.4979026	.1624736	3.193177	8.315195	11.33856	-.365475
#2	.5141298	.1798962	3.235922	8.806087	11.37781	-.368355
#3	.5024814	.1723101	3.201345	8.370325	11.36432	-.366118

Reviewed By:Mohan
On:1/8/2025 7:28:17 AM
Inst Id :P5

Sample Name: P5128-19A Acquired: 01/06/2025 22:01:05 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v80) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMK9A Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0153419	2.977514	9.294750	.2504284	.7551211	.0345572
Stddev	.0004896	.012257	.083055	.0024697	.0082981	.0003458
%RSD	3.191122	.4116379	.8935666	.9861779	1.098915	1.000549
#1	.0154222	2.964841	9.271087	.2499965	.7580358	.0349286
#2	.0148172	2.978394	9.387068	.2482032	.7615686	.0344985
#3	.0157864	2.989307	9.226094	.2530856	.7457588	.0342446

Elem	Li6707
Units	ppm
Avg	.0703418
Stddev	.0009671
%RSD	1.374791
#1	.0714580
#2	.0697567
#3	.0698106

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1949.885	17615.69	1575.287	1450.371	1657.844
Stddev	3.348	61.37	11.689	5.158	2.747
%RSD	.1716823	.3483982	.7420143	.3556458	.1656690
#1	1947.876	17578.90	1578.530	1453.652	1657.579
#2	1948.029	17686.54	1562.320	1444.425	1655.239
#3	1953.749	17581.63	1585.013	1453.035	1660.713

Reviewed By:Mohan
On:1/8/2025 7:28:17 AM
Inst Id :P5

Sample Name: P5122-12ARE Acquired: 01/06/2025 22:04:54 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v80) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMC9A Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1550882	.0116097	6.244315	.0946389	.0765374	66.88602
Stddev	.0008326	.0031687	.009621	.0070256	.0003585	.28981
%RSD	.5368513	27.29323	.1540738	7.423535	.4683577	.4332875
#1	.1558781	.0141837	6.247687	.0899726	.0763058	66.55707
#2	.1542187	.0125747	6.251795	.1027190	.0769503	67.10373
#3	.1551679	.0080707	6.233462	.0912252	.0763561	66.99726

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.962012	.0087995	.0075727	392.0465	.1911136	.1338208
Stddev	.017201	.0001005	.0000549	2.8227	.0012233	.0004448
%RSD	.8767040	1.142189	.7253491	.7199905	.6400863	.3324144
#1	1.949516	.0088168	.0075792	389.8543	.1908495	.1343111
#2	1.981631	.0086915	.0075149	395.2315	.1900439	.1334429
#3	1.954890	.0088903	.0076241	391.0538	.1924474	.1337085

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4569204	252.3760	5.583740	66.60580	.2807986	-.008784
Stddev	.0110131	2.6228	.047804	.62828	.0005313	.000356
%RSD	2.410295	1.039239	.8561209	.9432815	.1892125	4.048077
#1	.4600662	250.0155	5.535519	66.07578	.2808139	-.008419
#2	.4660184	255.1994	5.631115	67.29981	.2802599	-.008805
#3	.4446767	251.9130	5.584585	66.44180	.2813222	-.009129

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.071963	.2955814	3.732300	11.88687	F 15.91130	-.370784
Stddev	.013255	.0151586	.019238	.14164	.01266	.003579
%RSD	.6397341	5.128386	.5154349	1.191539	.0795375	.9652483
#1	2.056744	.3074784	3.712003	11.72419	15.91114	-.370748
#2	2.080981	.2785141	3.750266	11.98284	15.92403	-.367223
#3	2.078163	.3007517	3.734631	11.95356	15.89872	-.374381

Reviewed By:Mohan
On:1/8/2025 7:28:17 AM
Inst Id :P5

Sample Name: P5122-12ARE Acquired: 01/06/2025 22:04:54 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v80) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMC9A Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0147476	4.792008	11.42722	.3540947	1.957787	.8277895
Stddev	.0005845	.007622	.22376	.0008960	.022695	.0077080
%RSD	3.963164	.1590645	1.958089	.2530272	1.159218	.9311528
#1	.0151050	4.785273	11.22252	.3530611	1.936504	.8222036
#2	.0140731	4.800283	11.39305	.3546509	1.981670	.8365834
#3	.0150646	4.790468	11.66610	.3545720	1.955187	.8245814

Elem	Li6707
Units	ppm
Avg	.0766415
Stddev	.0029728
%RSD	3.878893
#1	.0800084
#2	.0755378
#3	.0743784

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1750.817	15915.82	1445.846	1297.814	1556.772
Stddev	5.969	94.26	.971	8.879	5.723
%RSD	.3409268	.5922398	.0671249	.6841121	.3676120
#1	1750.983	15840.85	1446.759	1298.407	1555.860
#2	1744.766	15884.96	1445.952	1288.654	1551.559
#3	1756.701	16021.64	1444.827	1306.381	1562.896

Reviewed By:Mohan
On:1/8/2025 7:28:17 AM
Inst Id :P5

Sample Name: P5124-19ARE Acquired: 01/06/2025 22:08:39 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v80) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHM88A Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1366868	.0292704	.8390391	.1251499	.0328755	53.64470	.6147369
Stddev	.0048457	.0018165	.0024311	.0063692	.0024849	.07987	.0027532
%RSD	3.545119	6.205833	.2897479	5.089269	7.558637	.1488818	.4478584
#1	.1357003	.0272799	.8364237	.1323157	.0356677	53.60457	.6131958
#2	.1324102	.0308383	.8394638	.1201335	.0309071	53.59285	.6179155
#3	.1419498	.0296932	.8412300	.1230004	.0320517	53.73667	.6130994

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0069313	.0016701	47.89668	.0839498	.0782241	.1333172	142.2783
Stddev	.0000616	.0001793	.08666	.0009353	.0008031	.0053767	.4982
%RSD	.8889398	10.73824	.1809294	1.114131	1.026600	4.033037	.3501464
#1	.0068875	.0015854	47.86676	.0847579	.0774108	.1347952	142.2573
#2	.0070018	.0018761	47.99433	.0829252	.0782450	.1378004	141.7909
#3	.0069048	.0015487	47.82894	.0841662	.0790165	.1273561	142.7866

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.859165	21.74434	.1466626	.0011398	.5914174	.1387456	1.318240
Stddev	.005867	.18135	.0004332	.0001979	.0058769	.0067714	.003104
%RSD	.0855282	.8340199	.2953963	17.35941	.9936991	4.880467	.2354417
#1	6.863415	21.56761	.1469264	.0010344	.5964178	.1465632	1.321018
#2	6.852472	21.73541	.1468987	.0013680	.5849441	.1349663	1.314890
#3	6.861609	21.92999	.1461626	.0010170	.5928902	.1347074	1.318813

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.790641	3.740144	-.237885	.0108012	5.582626	8.101388	.0421180
Stddev	.223270	.002659	.003365	.0002504	.005860	.051592	.0019561
%RSD	5.890031	.0710828	1.414670	2.318392	.1049737	.6368315	4.644377
#1	3.980404	3.738378	-.238733	.0105726	5.584809	8.116105	.0437425
#2	3.544624	3.743202	-.234178	.0110688	5.587081	8.044036	.0426647
#3	3.846896	3.738852	-.240746	.0107622	5.575987	8.144022	.0399466

Reviewed By:Mohan
On:1/8/2025 7:28:17 AM
Inst Id :P5

Sample Name: P5124-19ARE Acquired: 01/06/2025 22:08:39 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v80) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHM88A Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	1.592803	.1634479	.0551083
Stddev	.001766	.0004591	.0034296
%RSD	.1108990	.2808512	6.223466
#1	1.590879	.1629720	.0566086
#2	1.593179	.1634838	.0511841
#3	1.594351	.1638880	.0575321

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1759.205	15970.32	1416.556	1304.788	1702.995
Stddev	1.199	66.73	7.148	2.342	2.343
%RSD	.0681517	.4178224	.5046335	.1794795	.1375584
#1	1758.256	15967.79	1414.643	1302.162	1704.825
#2	1760.552	15904.89	1424.467	1306.662	1700.355
#3	1758.808	16038.27	1410.559	1305.539	1703.805

Reviewed By:Mohan
On:1/8/2025 7:28:17 AM
Inst Id :P5

Sample Name: P5129-01ARE Acquired: 01/06/2025 22:12:27 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v80) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMK3A Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2170293	.0340526	2.639850	.2395014	.1185594	81.48638
Stddev	.0010739	.0030843	.007802	.0062041	.0005218	.37470
%RSD	.4948264	9.057458	.2955361	2.590425	.4400930	.4598296
#1	.2177537	.0375385	2.637057	.2396389	.1181222	81.06370
#2	.2175386	.0316777	2.648664	.2456355	.1184190	81.77775
#3	.2157954	.0329416	2.633830	.2332296	.1191370	81.61769

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.615518	.0076296	.0077169	88.30158	.1453423	.1544431
Stddev	.011037	.0001156	.0001055	.12162	.0010518	.0005248
%RSD	.6831793	1.515289	1.366506	.1377342	.7236423	.3398167
#1	1.626873	.0075051	.0075961	88.20319	.1464275	.1549072
#2	1.604830	.0077335	.0077639	88.43756	.1443275	.1538735
#3	1.614853	.0076501	.0077906	88.26400	.1452720	.1545485

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.232963	197.6377	19.07785	23.85480	.2344752	-.001525
Stddev	.002322	.6191	.01265	.15277	.0009301	.000904
%RSD	.1883659	.3132632	.0663235	.6404150	.3966808	59.27513
#1	1.231966	197.0438	19.09044	23.73824	.2348347	-.002560
#2	1.235617	198.2793	19.07796	23.79841	.2334190	-.000886
#3	1.231305	197.5902	19.06514	24.02775	.2351719	-.001130

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3638085	.2131386	3.693647	11.26340	F 12.25191	-.353284
Stddev	.0125337	.0042866	.013614	.17790	.03848	.007044
%RSD	3.445149	2.011195	.3685893	1.579432	.3140565	1.993848
#1	.3778195	.2132380	3.708030	11.33377	12.21956	-.345330
#2	.3599436	.2173746	3.680960	11.39534	12.29446	-.355790
#3	.3536623	.2088031	3.691950	11.06108	12.24172	-.358733

Reviewed By:Mohan
On:1/8/2025 7:28:17 AM
Inst Id :P5

Sample Name: P5129-01ARE Acquired: 01/06/2025 22:12:27 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v80) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMK3A Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0143343	3.546029	8.671342	.1863408	.7753646	.1016672
Stddev	.0006259	.021819	.082817	.0007357	.0050217	.0007294
%RSD	4.366457	.6153143	.9550636	.3948271	.6476584	.7174493
#1	.0150476	3.537510	8.588453	.1858344	.7807410	.1010182
#2	.0140783	3.570822	8.754087	.1860034	.7745573	.1024566
#3	.0138769	3.529754	8.671487	.1871848	.7707954	.1015268

Elem	Li6707
Units	ppm
Avg	.0798193
Stddev	.0038677
%RSD	4.845552
#1	.0801998
#2	.0834826
#3	.0757754

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2008.133	18224.31	1629.882	1493.918	1643.674
Stddev	7.485	63.83	11.239	10.957	8.582
%RSD	.3727228	.3502489	.6895349	.7334243	.5221064
#1	2009.745	18156.57	1639.237	1481.554	1644.308
#2	1999.973	18233.02	1617.416	1502.423	1634.793
#3	2014.680	18283.33	1632.995	1497.778	1651.921

Reviewed By:Mohan
On:1/8/2025 7:28:17 AM
Inst Id :P5

Sample Name: CCV125 Acquired: 01/06/2025 22:16:15 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v80) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV125 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.677149	4.679026	23.76883	4.714209	4.769420	400.8653
Stddev	.012334	.013413	.02997	.005981	.005715	.6807
%RSD	.2636992	.2866593	.1260697	.1268790	.1198170	.1698177
#1	4.676679	4.682723	23.73869	4.711637	4.775914	401.6382
#2	4.665057	4.664153	23.76919	4.721047	4.765158	400.6031
#3	4.689711	4.690203	23.79862	4.709945	4.767189	400.3547

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.543008	.4867422	2.373954	389.2806	14.75232	2.427659
Stddev	.041700	.0037498	.002155	1.2278	.04955	.001278
%RSD	.4369681	.7703873	.0907820	.3154017	.3359073	.0526329
#1	9.579128	.4908134	2.374899	390.5440	14.69554	2.426613
#2	9.497373	.4859834	2.371488	388.0918	14.78683	2.427280
#3	9.552523	.4834298	2.375476	389.2061	14.77460	2.429083

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	14.63971	402.0498	14.67398	405.7622	2.406167	1.164118
Stddev	.01996	.3035	.05134	.4592	.004033	.001778
%RSD	.1363117	.0754907	.3498832	.1131734	.1676083	.1527075
#1	14.61704	402.3143	14.70483	406.2770	2.408694	1.163299
#2	14.65463	402.1168	14.61471	405.6148	2.401516	1.166158
#3	14.64746	401.7185	14.70240	405.3948	2.408292	1.162897

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	402.6966	2.441413	14.72473	146.1735	4.758851	F 4.355681
Stddev	4.1626	.008944	.04190	.5680	.016950	.032808
%RSD	1.033669	.3663421	.2845830	.3886042	.3561764	.7532315
#1	407.4223	2.432288	14.68986	146.5640	4.744232	4.392811
#2	401.0937	2.441788	14.71311	145.5218	4.754891	4.343628
#3	399.5738	2.450164	14.77121	146.4346	4.777431	4.330605

Reviewed By:Mohan
On:1/8/2025 7:28:17 AM
Inst Id :P5

Sample Name: CCV125 Acquired: 01/06/2025 22:16:15 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v80) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV125 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.699767	4.752793	4.829979	4.799609	4.880810	4.659430
Stddev	.008420	.005832	.043957	.007833	.010792	.009260
%RSD	.1791664	.1227084	.9100920	.1631963	.2211092	.1987328
#1	4.702805	4.753396	4.877758	4.804122	4.891711	4.663144
#2	4.690249	4.746682	4.820929	4.790564	4.880588	4.648889
#3	4.706246	4.758299	4.791252	4.804139	4.870131	4.666256

Elem	Li6707
Units	ppm
Avg	4.723425
Stddev	.022972
%RSD	.4863428
#1	4.745594
#2	4.699726
#3	4.724954

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1276.637	12685.14	1184.449	940.8262	1358.482
Stddev	1.186	22.27	12.366	2.2054	1.752
%RSD	.0929242	.1755924	1.044053	.2344090	.1289359
#1	1277.942	12706.23	1171.361	941.7366	1360.412
#2	1275.624	12661.85	1186.050	942.4306	1356.994
#3	1276.344	12687.34	1195.937	938.3114	1358.039

Reviewed By:Mohan
On:1/8/2025 7:28:17 AM
Inst Id :P5

Sample Name: CCB125 Acquired: 01/06/2025 22:20:01 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v80) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB125 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.004429	.0039414	-.001273	.0056411	-.000572	.0619722	.0052542
Stddev	.004858	.0041321	.002503	.0046310	.002659	.0285574	.0021859
%RSD	109.6814	104.8364	196.6451	82.09466	464.5865	46.08094	41.60289
#1	-.004906	-.000533	-.003113	.0109500	.001327	.0536724	.0041694
#2	.000650	.004743	.001577	.0035413	-.003611	.0384841	.0038229
#3	-.009030	.007614	-.002282	.0024319	.000568	.0937601	.0077703

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000174	-.000042	-.004875	-.000255	.0000295	-.002884	.0011627
Stddev	.000190	.000104	.041475	.001295	.0004993	.009716	.0510313
%RSD	109.6638	244.9418	850.8109	508.3506	1690.088	336.9211	4388.874
#1	-.000319	.000050	-.026449	.001158	-.000283	-.008396	.0482511
#2	-.000244	-.000154	-.031116	-.001385	.000605	.008334	.0082977
#3	.000042	-.000023	.042941	-.000537	-.000234	-.008590	-.053061

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0032927	-.062288	.0007074	-.000459	-.092614	-.000053	.0028482
Stddev	.0029467	.217116	.0012119	.001243	.017785	.005900	.0010402
%RSD	89.49141	348.5659	171.3288	270.4901	19.20372	11112.54	36.52068
#1	.0032311	-.199232	-.000573	.000200	-.074580	.006112	.0040460
#2	.0062698	-.175679	.000859	.000315	-.110140	-.000625	.0021715
#3	.0003773	.188046	.001836	-.001893	-.093123	-.005646	.0023273

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0665934	.0030816	.0057317	-.000947	.0009957	-.000716	-.001436
Stddev	.2396710	.0025815	.0040349	.000981	.0018788	.000814	.001220
%RSD	359.9022	83.77167	70.39679	103.5069	188.6973	113.6150	84.95506
#1	.0190495	.0026777	.0075704	-.000358	-.000308	-.001252	-.002491
#2	-.145742	.0058413	.0085198	-.000405	.000146	.000220	-.001717
#3	.326473	.0007259	.0011049	-.002079	.003149	-.001117	-.000100

Reviewed By:Mohan
On:1/8/2025 7:28:17 AM
Inst Id :P5

Sample Name: CCB125 Acquired: 01/06/2025 22:20:01 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v80) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB125 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.0124825	.0006796	-.009351
Stddev	.0018395	.0000106	.007084
%RSD	14.73691	1.559012	75.75109
#1	.0118217	.0006675	-.001983
#2	.0110646	.0006846	-.016111
#3	.0145611	.0006868	-.009960

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1578.605	14434.79	1258.672	1179.685	1725.673
Stddev	2.612	95.03	4.169	4.407	3.034
%RSD	.1654434	.6583291	.3312322	.3735734	.1758341
#1	1579.223	14538.17	1254.650	1182.723	1723.480
#2	1580.853	14351.23	1258.393	1174.631	1729.136
#3	1575.740	14414.98	1262.974	1181.702	1724.403

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

Prep Standard - Chemical Standard Summary

Order ID : P5122

Test : Metals CLP Full

Prepbatch ID : PB165841,

Sequence ID/Qc Batch ID: LB134162,LB134174,

Standard ID :
MP83498,MP83500,MP83501,MP83502,MP83503,MP83504,MP83505,MP83506,MP83507,MP83508,MP83509,MP83510,MP83511,MP83512,MP83513,MP83514,MP83619,MP83745,

Chemical ID :
M5130,M5218,M5223,M5289,M5295,M5296,M5390,M5393,M5429,M5473,M5496,M5497,M5498,M5513,M5515,M5519,M5658,M5697,M5698,M5768,M5769,M5798,M5799,M5800,M5801,M5802,M5806,M5815,M5816,M5817,M5818,M5819,M5820,M5875,M5959,M5960,M5962,M5970,M5976,M5978,M5982,M5985,M5990,M5999,M6021,M6023,M6025,M6028,M6030,M6121,M6125,M6126,W3112,

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

Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
169	1:1HNO3	MP83498	12/09/2024	01/31/2025	Janvi Patel	None	None	Sarabjit Jaswal 12/09/2024

FROM 1250.00000ml of M6126 + 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)	MP83500	12/06/2024	01/14/2025	Kareem Khairalla	None	None	Sarabjit Jaswal 12/09/2024

FROM 125.00000ml of M6121 + 2350.00000ml of W3112 + 25.00000ml of M6126 = Final Quantity: 2500.000 ml

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

Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
2480	ICP AES STD 6 ISM01.3	MP83501	12/06/2024	01/13/2025	Kareem Khairalla	None	None	Sarabjit Jaswal 12/09/2024

FROM 4.00000ml of M5289 + 4.00000ml of M5498 + 4.00000ml of M5515 + 4.00000ml of M5768 + 4.00000ml of M5806 + 30.00000ml of MP83500 = Final Quantity: 50.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1004	ICPAES ISM01.2 (S5)	MP83502	12/06/2024	01/13/2025	Kareem Khairalla	None	None	Sarabjit Jaswal 12/09/2024

FROM 0.25000ml of M5798 + 0.50000ml of M5429 + 0.50000ml of M5473 + 0.50000ml of M5815 + 0.50000ml of M5817 + 12.50000ml of M5519 + 12.50000ml of M5698 + 12.50000ml of M5806 + 12.50000ml of M5819 + 13.75000ml of M5697 + 14.50000ml of M5496 + 14.50000ml of M5515 + 14.50000ml of M5658 + 2.00000ml of M5513 + 22.50000ml of M5497 + 22.50000ml of M5768 + 5.00000ml of M5296 + 5.00000ml of M5393 + 5.00000ml of M5802 + 5.00000ml of M5818 + 5.00000ml of M5875 + 303.50000ml of MP83500 = Final Quantity: 500.000 ml

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

Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1005	ICPAES ISM01.2(S4)	MP83503	12/09/2024	01/13/2025	Kareem Khairalla	None	None	Sarabjit Jaswal 12/09/2024

FROM 250.00000ml of MP83500 + 250.00000ml of MP83502 = Final Quantity: 500.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1007	ICPAES ISM01.2(S3)	MP83504	12/09/2024	01/13/2025	Kareem Khairalla	None	None	Sarabjit Jaswal 12/09/2024

FROM 25.00000ml of MP83502 + 75.00000ml of MP83500 = Final Quantity: 100.000 ml

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

Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1008	ICPAES ISM01.2(S2)	MP83505	12/09/2024	01/13/2025	Kareem Khairalla	None	None	Sarabjit Jaswal 12/09/2024

FROM 12.50000ml of MP83502 + 87.50000ml of MP83500 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
994	ICPAES ISM01.2 S1 (CONC.)	MP83506	12/09/2024	01/13/2025	Kareem Khairalla	None	None	Sarabjit Jaswal 12/09/2024

FROM 0.02000ml of M5815 + 0.03000ml of M5429 + 0.10000ml of M5798 + 0.10000ml of M6028 + 0.14000ml of M5799 + 0.20000ml of M5473 + 0.20000ml of M5515 + 0.20000ml of M5658 + 0.20000ml of M5801 + 0.20000ml of M5817 + 0.20000ml of M5976 + 0.20000ml of M6025 + 0.20000ml of M6030 + 0.30000ml of M5698 + 0.40000ml of M5496 + 0.50000ml of M5697 + 0.50000ml of M6023 + 0.70000ml of M5962 + 0.80000ml of M5960 + 1.00000ml of M5800 + 1.00000ml of M6021 + 1.20000ml of M5802 + 1.20000ml of M5819 + 10.00000ml of M5498 + 10.00000ml of M5519 + 10.00000ml of M5769 + 10.00000ml of M5806 + 10.00000ml of M5818 + 2.00000ml of M5978 + 4.00000ml of M5390 + 99.50000ml of MP83500 = Final Quantity: 100.000 ml

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

Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1003	ICPAES ISM01.2 S1	MP83507	12/09/2024	01/13/2025	Kareem Khairalla	None	None	Sarabjit Jaswal 12/09/2024

FROM 0.50000ml of MP83506 + 99.50000ml of MP83500 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
2054	ICV-ICPAES	MP83508	12/09/2024	01/13/2025	Kareem Khairalla	None	None	Sarabjit Jaswal 12/09/2024

FROM 0.50000ml of M5218 + 0.50000ml of M5816 + 0.50000ml of M5820 + 0.50000ml of M5970 + 0.50000ml of M5982 + 10.00000ml of M5295 + 87.50000ml of MP83500 = Final Quantity: 100.000 ml

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

Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
904	ICP AES ICSA SOLN	MP83509	12/09/2024	01/13/2025	Kareem Khairalla	None	METALS_PIPETTE_3 (A)	Sarabjit Jaswal 12/09/2024

FROM 10.00000ml of M5130 + 90.00000ml of MP83500 = Final Quantity: 250.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
905	ICP AES ICSAB SOLN	MP83510	12/09/2024	01/13/2025	Kareem Khairalla	None	None	Sarabjit Jaswal 12/09/2024

FROM 10.00000ml of M5130 + 10.00000ml of M5223 + 80.00000ml of MP83500 = Final Quantity: 250.000 ml

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

Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1119	ICPAES ISM01.2(CCV)	MP83511	12/09/2024	01/13/2025	Kareem Khairalla	None	None	Sarabjit Jaswal 12/09/2024

FROM 0.75000ml of M5497 + 0.75000ml of M5769 + 1.22500ml of M5496 + 1.25000ml of M5515 + 1.25000ml of M5806 + 19.77500ml of MP83500 + 25.00000ml of MP83502 = Final Quantity: 50.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
921	ICPAES SPIKE SOL#6	MP83512	12/09/2024	01/13/2025	Kareem Khairalla	None	None	Sarabjit Jaswal 12/09/2024

FROM 2.50000ml of M5962 + 50.00000ml of M5990 + 50.00000ml of M5999 + 147.50000ml of MP83500 = Final Quantity: 250.000 ml

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

Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
919	ICP AES INTERNAL STD	MP83513	12/09/2024	01/13/2025	Kareem Khairalla	None	None	Sarabjit Jaswal 12/09/2024

FROM 1.00000ml of M5959 + 10.00000ml of M5985 + 1969.00000ml of W3112 + 20.00000ml of M6126 = Final Quantity: 2000.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
513	RINSE SOLN	MP83514	12/09/2024	01/13/2025	Kareem Khairalla	None	None	Sarabjit Jaswal 12/09/2024

FROM 200.00000ml of M6126 + 9800.00000ml of W3112 = Final Quantity: 10000.000 ml

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

Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1122	ICPMS CALIB BLANK(S0/ICB/CCB)	MP83619	12/13/2024	01/10/2025	Sarabjit Jaswal	None	METALS_PIPETTE_3 (A)	Mohan Bera 12/17/2024

FROM 25.00000ml of M6121 + 4925.00000ml of W3112 + 50.00000ml of M6126 = Final Quantity: 5000.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1905	TL 10PPM	MP83745	12/15/2024	01/07/2025	Sarabjit Jaswal	None	None	Mohan Bera 12/23/2024

FROM 0.10000ml of M6023 + 9.90000ml of MP83619 = Final Quantity: 10.000 ml

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 #
EPA	PART A / ICSA (ICP) STOCK SOLN	ICSA-1211	01/31/2025	05/20/2024 / jaswal	04/20/2021 / bin	M5130

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	S2-MEB711674	11/02/2026	07/01/2022 / bin	09/10/2021 / bin	M5218

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	01/31/2025	05/20/2024 / jaswal	04/20/2021 / bin	M5223

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58113 / Aluminum (Al) 10,000PPM	070622	07/06/2025	09/02/2022 / jaswal	07/12/2022 / jaswal	M5289

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
EPA	ICV-1 / ICV (ICP/ICPMS) STOCK SOLN	ICV-1014	02/05/2025	08/07/2024 / jaswal	04/20/2021 / bin	M5295

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	Z9651Q / CHEM-CLP-4/.25L	S2-MEB711673	11/02/2026	09/19/2022 / jaswal	08/20/2022 / jaswal	M5296

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.	57056 / Ba, 1000 PPM, 125 ml	072122	07/21/2025	08/07/2024 / jaswal	09/18/2022 / bin	M5390

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-MEB714159	01/13/2027	10/12/2022 / bin	09/19/2022 / bin	M5393

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57103 / Li, 10000 PPM, 125 ml	070622	07/06/2025	01/30/2023 / bin	01/26/2023 / bin	M5429

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57138 / Sr, 10000 PPM, 125 ml	082922	08/29/2025	03/16/2023 / jaswal	03/16/2023 / jaswal	M5473

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	011623	01/16/2026	08/15/2023 / jaswal	03/17/2023 / bin	M5496

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58120 / Ca, 10000 PPM, 500 ml	031523	03/15/2026	03/18/2023 / bin	03/17/2023 / bin	M5497

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.	58120 / Ca, 10000 PPM, 500 ml	031523	03/15/2026	08/15/2023 / jaswal	03/17/2023 / bin	M5498

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	061522	06/15/2025	03/19/2023 / bin	03/17/2023 / bin	M5513

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	092122	09/21/2025	08/01/2024 / Jaswal	03/17/2023 / bin	M5515

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57119 / Potassium (K) 10,000PPM	120822	12/08/2025	01/08/2024 / bin	03/17/2023 / bin	M5519

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58024 / Chromium, Cr, 500 ml, 1000 PPM	060523	06/05/2026	08/28/2023 / jaswal	08/25/2023 / jaswal	M5658

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58029 / Cu, 1000 PPM, 500 ml	102523	10/25/2026	04/03/2024 / jaswal	10/27/2023 / jaswal	M5697

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.	58025 / Mn, 1000 PPM, 500 ml	102623	10/26/2026	04/18/2024 / jaswal	10/27/2023 / jaswal	M5698

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	091823	09/18/2026	01/08/2024 / bin	01/03/2024 / bin	M5768

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	091823	09/18/2026	05/24/2024 / Jaswal	01/03/2024 / bin	M5769

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

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.	57033 / As, 1000 PPM, 125 ml	111323	11/13/2026	02/09/2024 / bin	02/09/2024 / bin	M5801

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57051 / Sb, 1000 PPM, 125 ml	120523	12/05/2026	08/07/2024 / jaswal	01/03/2024 / jaswal	M5802

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	122223	12/22/2026	08/01/2024 / Jaswal	01/03/2024 / jaswal	M5806

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57115 / P, 10000 PPM, 125 ml	041723	04/17/2026	05/21/2024 / Jaswal	02/09/2024 / jaswal	M5815

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57016 / S, 1000 PPM, 125 ml	122923	12/29/2026	05/20/2024 / Jaswal	02/09/2024 / jaswal	M5816

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57116 / S, 10000 PPM, 125 ml	071123	07/11/2026	03/01/2024 / jaswal	02/09/2024 / jaswal	M5817

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.	57014 / Si, 1000 PPM, 125 ml	122023	12/20/2026	03/06/2024 / jaswal	02/09/2024 / jaswal	M5818

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	111623	11/16/2026	03/20/2024 / jaswal	02/09/2024 / jaswal	M5819

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57015 / P, 1000 PPM, 125 ml	091123	09/11/2026	05/01/2024 / jaswal	02/09/2024 / jaswal	M5820

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	CLPP-CAL-1 / CLP CAL SOLUTION #1, 125mL	T2-MEB714417	01/27/2027	04/19/2024 / jaswal	02/22/2024 / jaswal	M5875

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	CGY10-1 / YTTRIUM 125mL 10,000ug/mL	V2-Y740548	02/20/2029	07/01/2024 / Jaswal	06/14/2024 / Jaswal	M5959

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	041124	04/11/2027	07/03/2024 / kareem	06/11/2024 / kareem	M5960

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.	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.	57003 / Li, 1000 PPM, 125 ml	061224	06/21/2027	07/01/2024 / Jaswal	07/01/2024 / Jaswal	M5970

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	CGMO1-1 / MOLYBDENUM 125mL 1000ug/mL	T2-MO720876	07/17/2027	08/07/2024 / jaswal	02/22/2024 / Jaswal	M5976

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	CGTI1-1 / TITANIUM 125mL 1000ug/mL	T2-TI719972	06/17/2027	08/07/2024 / jaswal	02/22/2024 / Jaswal	M5978

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	031524	03/15/2027	07/01/2024 / Jaswal	06/11/2024 / Jaswal	M5982

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

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 #
Inorganic Ventures	CLPP-SPK-5 / CLP Spike Standard 5	V2-MEB742037	03/12/2029	10/04/2024 / Jaswal	02/22/2024 / Jaswal	M5990

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	CLPP-SPK-1 / SOIL/WATER SPIKE SOLN 1, 125mL	T2-MEB721963	07/27/2027	09/04/2024 / Jaswal	02/22/2024 / kareem	M5999

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.	57082 / Pb, 1000 PPM, 125 ml	061224	11/09/2026	08/05/2024 / Jaswal	08/05/2024 / Jaswal	M6025

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

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.	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 #
Seidler Chemical	BA-9530-33 / Hydrochloric Acid, Instra-Analyzed (cs/6x2.5L)	0000275677	05/13/2025	11/13/2024 / Eman	10/13/2024 / Eman	M6121

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	1403 / Hydrogen Peroxide, 30% 1 gal	820803	05/25/2025	11/26/2024 / Eman	11/22/2024 / Eman	M6125

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	06/03/2025	12/03/2024 / Janvi	11/12/2024 / Janvi	M6126

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

INORGANIC VENTURES™
Refine your results. Redefine your industry.

Certificate of Analysis

R: 02/22/24 M5986 M5987, M5988, M5989-M5990

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:	CLPP-SPK-5
Lot Number:	V2-MEB742037
Matrix:	5% (v/v) HNO3
Value / Analyte(s):	100 µg/mL ea: Antimony, 50 µg/mL ea: Selenium, Cadmium, Thallium, 40 µg/mL ea: Arsenic, 20 µg/mL ea: Lead

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
Antimony, Sb	100.0 ± 0.7 µg/mL	Arsenic, As	40.00 ± 0.26 µg/mL
Cadmium, Cd	49.99 ± 0.22 µg/mL	Lead, Pb	19.99 ± 0.09 µg/mL
Selenium, Se	50.00 ± 0.23 µg/mL	Thallium, Tl	50.00 ± 0.22 µg/mL

Density: 1.025 g/mL (measured at 20 ± 4 °C)

Assay Information:

619

ANALYTE	METHOD	NIST SRM#	SRM LOT#
As	ICP Assay	3103a	100818
Cd	ICP Assay	3108	130116
Cd	EDTA	928	928
Cd	Calculated		See Sec. 4.2
Pb	ICP Assay	3128	101026
Pb	EDTA	928	928
Pb	Calculated		See Sec. 4.2
Sb	ICP Assay	3102a	140911
Se	ICP Assay	3149	100901
Se	Calculated		See Sec. 4.2
Tl	ICP Assay	3158	151215
Tl	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)

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

March 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

- March 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

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

R 8/15/24

M6028

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

623

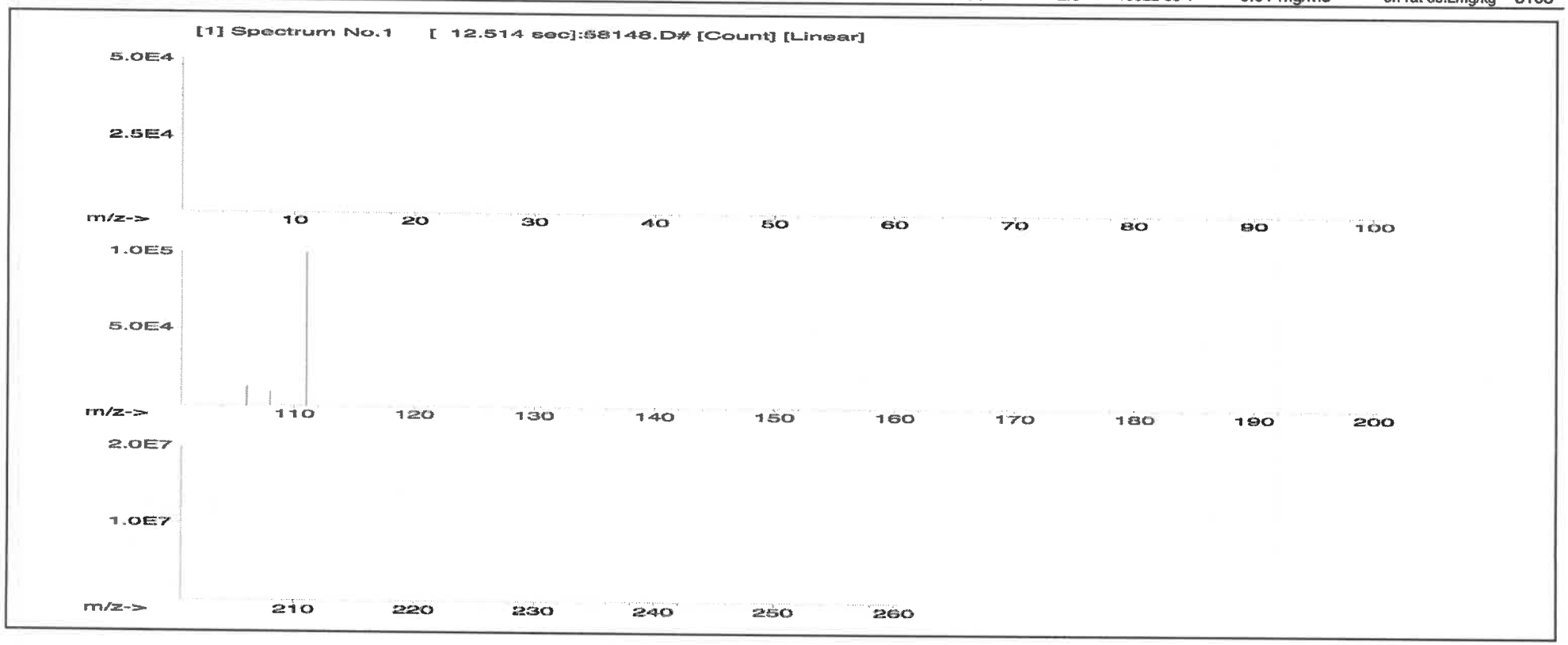
CERTIFIED WEIGHT REPORT:

Part Number:	**57048**		**Lot #**		
Lot Number:	**070124**	**Solvent:**	24002546	Nitric Acid	
Description:	**Cadmium (Cd)**	2%	40.0 (mL)	Nitric Acid	
Expiration Date:	070127				
Recommended Storage:	Ambient (20 °C)				
Nominal Concentration (µg/mL):	**1000**				
NIST Test Number:	6UTB	5E-05	Balance Uncertainty		
Weight shown below was diluted to (mL):	2000.07	0.100	Flask Uncertainty		

Aleah O'Brady

Formulated By:	Aleah O'Brady	070124
Reviewed By:	Pedro L. Rentas	070124

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Cadmium nitrate tetrahydrate (Cd)	IN024	CDM092021A1	1000	99.999	0.10	36.5	5.4797	5.4804	**1000.1**	**2.0**	10022-68-1	0.01 mg/m3	orl-rat 60.2mg/kg	3108



624

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).

M5296 OP: 09/19/2022 BH

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:	CHEM-CLP-4
Lot Number:	S2-MEB711673
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 ± 6 µg/mL**	**Molybdenum, Mo**	**1 000 ± 6 µg/mL**
Silicon, Si	**1 000 ± 7 µg/mL**	**Tin, Sn**	**1 000 ± 6 µg/mL**
Titanium, Ti	**1 000 ± 7 µg/mL**		

Density: 1.030 g/mL (measured at 20 ± 4 ºC)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
B	ICP Assay	3107	110830
Mo	ICP Assay	3134	130418
Si	ICP Assay	3150	130912
Sn	ICP Assay	3161a	140917
Ti	ICP Assay	3162a	130925

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.

625

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:

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

$CRM/RM\ Expanded\ Uncertainty\ (\pm) = U_{CRM/RM} = k\ (u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

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

$CRM/RM\ Expanded\ Uncertainty\ (\pm) = U_{CRM/RM} = k\ (u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

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

u_{bb} = bottle to bottle homogeneity standard uncertainty

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

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

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

4.1 Thermometer Calibration

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

4.2 Balance Calibration

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

4.3 Glassware Calibration

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

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

N/A

6.0 INTENDED USE

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

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

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

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

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

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

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

November 02, 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

- **November 02, 2026**

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

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

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

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

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Michael Booth
Director, 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

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-1
Lot Number:	T2-MEB714417
Matrix:	5% (v/v) HNO3
Value / Analyte(s):	5 000 µg/mL ea: Calcium, Potassium, Magnesium, Sodium, 2 000 µg/mL ea: Aluminum, Barium, 1 000 µg/mL ea: Iron, 500 µg/mL ea: Nickel, Vanadium, Zinc, Cobalt, Manganese, 250 µg/mL ea: Silver, Copper, 200 µg/mL ea: Chromium, 50 µg/mL ea: Beryllium

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
Aluminum, Al	**2 000 ± 7 µg/mL**	**Barium, Ba**	**2 000 ± 9 µg/mL**
Beryllium, Be	**50.00 ± 0.26 µg/mL**	**Calcium, Ca**	**5 000 ± 22 µg/mL**
Chromium, Cr	**200.0 ± 1.0 µg/mL**	**Cobalt, Co**	**500.0 ± 2.4 µg/mL**
Copper, Cu	**250.0 ± 1.0 µg/mL**	**Iron, Fe**	**1 000 ± 4 µg/mL**
Magnesium, Mg	**5 000 ± 20 µg/mL**	**Manganese, Mn**	**500.0 ± 2.0 µg/mL**
Nickel, Ni	**500.0 ± 2.2 µg/mL**	**Potassium, K**	**5 000 ± 19 µg/mL**
Silver, Ag	**250.0 ± 1.1 µg/mL**	**Sodium, Na**	**5 000 ± 18 µg/mL**
Vanadium, V	**499.7 ± 2.2 µg/mL**	**Zinc, Zn**	**500.0 ± 2.2 µg/mL**

Density: 1.118 g/mL (measured at 20 ± 4 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
Cr	Calculated		See Sec. 4.2
Cu	ICP Assay	3114	121207
Cu	EDTA	928	928
Fe	ICP Assay	3126a	140812
Fe	EDTA	928	928
K	ICP Assay	3141a	140813
K	Gravimetric		See Sec. 4.2
Mg	ICP Assay	3131a	140110
Mg	EDTA	928	928
Mn	ICP Assay	3132	050429
Mn	EDTA	928	928
Na	ICP Assay	3152a	120715
Na	Gravimetric		See Sec. 4.2
Ni	ICP Assay	3136	120619
Ni	EDTA	928	928
V	IC Assay	3165	160906
V	EDTA	928	928
Zn	ICP Assay	3168a	120629
Zn	EDTA	928	928

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

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

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

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

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

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

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

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

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

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

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

X_a = mean of Assay Method A with

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

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

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

u_{bb} = bottle to bottle homogeneity standard uncertainty

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

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

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

4.1 Thermometer Calibration

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

4.2 Balance Calibration

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

4.3 Glassware Calibration

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

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

N/A

6.0 INTENDED USE

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

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

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

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

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

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

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

January 27, 2022

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

11.2 Lot Expiration Date

- **January 27, 2027**

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

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

11.3 Period of Validity

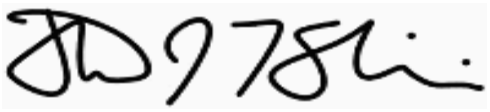
- Sealed TCT Bag Open Date: _____

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

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Thomas Kozikowski
Manager, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

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:	CLPP-CAL-3
Lot Number:	T2-MEB714159
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 ± 8 µg/mL**	**Cadmium, Cd**	**500.0 ± 2.1 µg/mL**
Lead, Pb	**1 000 ± 5 µg/mL**	**Selenium, Se**	**1 000 ± 8 µg/mL**
Thallium, Tl	**1 000 ± 7 µg/mL**		

Density: 1.043 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:

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

$CRM/RM\ Expanded\ Uncertainty\ (\pm) = U_{CRM/RM} = k\ (u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

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

$CRM/RM\ Expanded\ Uncertainty\ (\pm) = U_{CRM/RM} = k\ (u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

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

u_{bb} = bottle to bottle homogeneity standard uncertainty

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

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

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

4.1 Thermometer Calibration

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

4.2 Balance Calibration

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

4.3 Glassware Calibration

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

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

N/A

6.0 INTENDED USE

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

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

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

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

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

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

8.0 HAZARDOUS INFORMATION

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

9.0 HOMOGENEITY

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

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

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

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

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

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

January 13, 2022

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

11.2 Lot Expiration Date

- **January 13, 2027**

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

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

11.3 Period of Validity

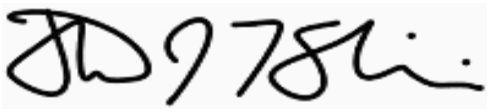
- Sealed TCT Bag Open Date: _____

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

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Thomas Kozikowski
Manager, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

R: 8/5/24 M6025

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

635

CERTIFIED WEIGHT REPORT:

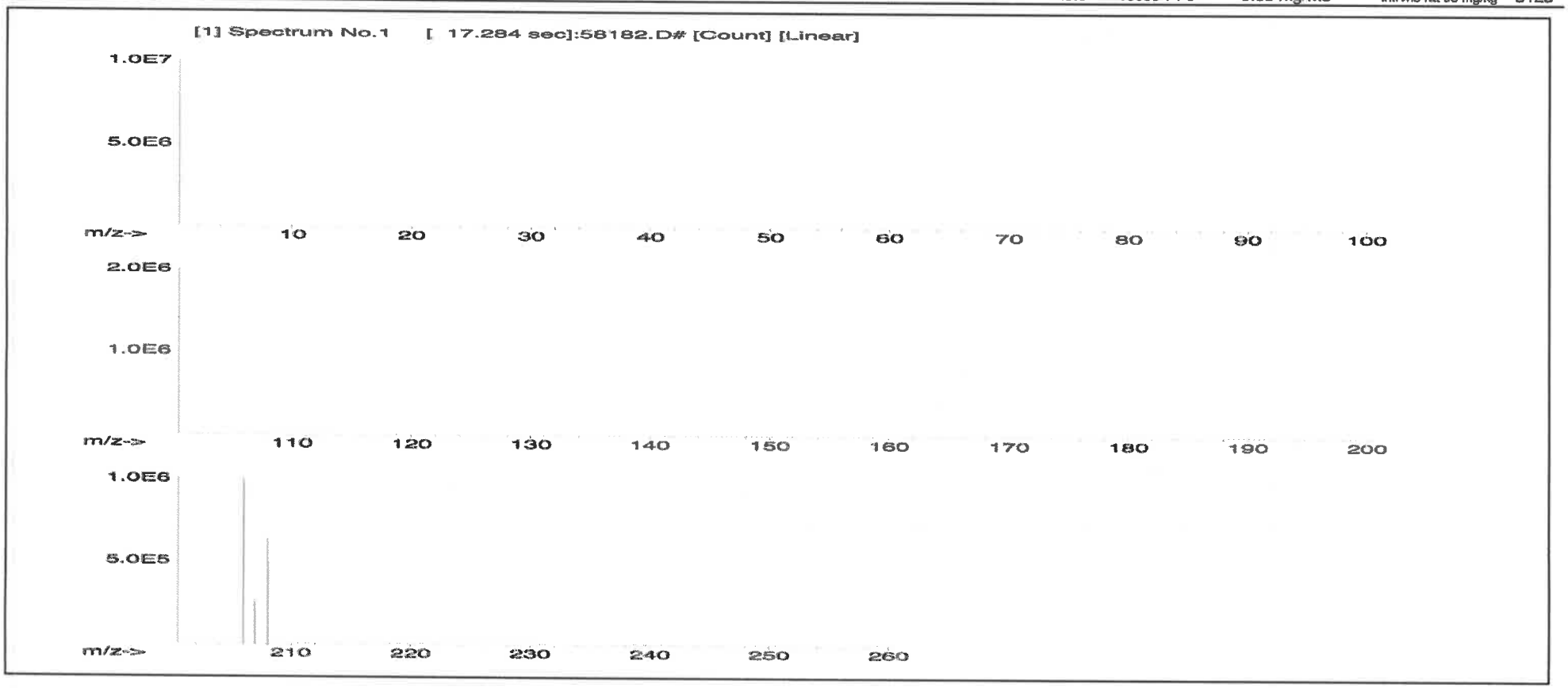
Part Number: 57182
Lot Number: 110923
Description: Lead (Pb)

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

	Lot #		
Solvent:	24002546	Nitric Acid	
2%	40.0 (mL)	Nitric Acid	
	5E-05	Balance Uncertainty	
	0.058	Flask 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



636

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

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

(T)= Target analyte

Physical Characterization:

Certified by:

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

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

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

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

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

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

Contains Heavy Metals
HAZARDOUS MATERIAL

Safety Data Sheets
Available Upon Request

(A) *SAMPLE DESCRIPTION*

Enclosed is a set of one (1) or more bottles of Aqueous Reference Material, each composed of metals at various concentrations and prepared with nitrate salts and oxy-acids of the respective elements in a 5% nitric acid matrix. **For the reference material source in reporting ICSA and ICSAB mixture use "USEPA". For the reference material lot number for the ICSA use "ICSA-1211" and for the ICSAB mixture use "ICSA-1211+ICSB-0710".**

CAUTION: The bottle(s) should be protected from light during storage to ensure the stability of silver which is contained in the ICSB solution. The bottle(s) should be stored at room temperature. **Do not allow the solution(s) to freeze.**

(B) *BREAKAGE OR MISSING ITEMS*

Check the contents of the shipment carefully for any broken, leaking, or missing items. Check that the seal is intact on each bottle. Refer to the enclosed chain of custody record. Report any problems to Mr. Keith Strout, APTIM Federal Services, LLC, at (702) 895-8722. If requested, return the chain-of-custody record with appropriate annotations and signatures to the address provided below.

QUALITY ASSURANCE TECHNICAL SUPPORT LABORATORY
APTIM Federal Services, LLC
2700 Chandler Avenue - Building C
Las Vegas, NV 89120

(C) *ANALYSIS OF SAMPLES*

The interference check sample set is to be used to verify inter-element and background correction factors of inductively-coupled plasma (ICP) spectrometers. This reference material set consists of two (2) concentrated solutions. The ICSA solution contains the four (4) interferent elements: Al, Ca, Fe, and Mg. The ICSB solution contains the analytes: Ag, As, Sb, Ba, Be,

Cd, Co, Cr, Cu, Mn, Ni, Pb, Tl, Se, V, and Zn. This instruction sheet provides the nominal values for ICP-AES Part A and Part B target analytes when diluted as directed.

Using Class "A" glassware, preparation and analysis must be performed according to the following instructions:

ICSA-1211, Interferents: Pipet 10 mL of the ICSA solution into a 100 mL volumetric flask and dilute to volume with 2% v/v HNO_3. Analyze this ICSA solution by ICP-AES.

ICSB-0710, Analytes, mixed with ICSA-1211, Interferents: Pipet 10 mL of the ICSA solution and 10 mL of the ICSB solution into a 100 mL volumetric flask and dilute to volume with 2% v/v HNO_3. Analyze this ICSAB solution by ICP-AES.

(D) *"CERTIFIED VALUE" CONCENTRATIONS OF QATS ICP-AES ICS SOLUTION(S)*

The "Certified Value" concentrations of the elements, listed in Table 1 below, were derived from statistically pooled analysis results from the following sources, if available: QATS Laboratory, CLP laboratories, Quarterly Blind (QB)/Proficiency Testing (PT) events, CLP pre-award events, and external referee laboratories.

Table 1. "CERTIFIED VALUES" FOR INTERFERENCE CHECK SAMPLE ICP-AES ICSA-1211, AND ICSA-1211 MIXED WITH ICSB-0710

Element	CRQL	Part A (µg/L)	Low Limit (µg/L)	High Limit (µg/L)	Part A +Part B (µg/L)	Low Limit (µg/L)	High Limit (µg/L)
Al	200	255000	216000	294000	247000	209000	285000
Sb	60	(0.0)	-60.0	60.0	618	525	711
As	10	(0.0)	-10.0	10.0	104	88.4	120
Ba	200	(6.0)	-194	206	(537)	337	737
Be	5.0	(0.0)	-5.0	5.0	495	420	570
Cd	5.0	(1.0)	-4.0	6.0	972	826	1120
Ca	5000	245000	208000	282000	235000	199000	271000
Cr	10	(52.0)	42.0	62.0	542	460	624
Co	50	(0.0)	-50.0	50.0	476	404	548
Cu	25	(2.0)	-23.0	27.0	511	434	588
Fe	100	101000	85600	116500	99300	84400	114500
Pb	10	(0.0)	-10.0	10.0	(49.0)	39.0	59.0
Mg	5000	255000	216000	294000	248000	210000	286000
Mn	15	(7.0)	-8.0	22.0	507	430	584
Ni	40	(2.0)	-38.0	42.0	954	810	1100
Se	35	(0.0)	-35.0	35.0	(46.0)	11.0	81.0
Ag	10	(0.0)	-10.0	10.0	201	170	232
Tl	25	(0.0)	-25.0	25.0	(108)	83.0	133
V	50	(0.0)	-50.0	50.0	491	417	565
Zn	60	(0.0)	-60.0	60.0	952	809	1095

ICSA M5126 M5127 M5128 M5129 M5130

ICSB M5219 M5220 M5221 M5222 M5223

The acceptance ranges for all analytes in parentheses in the above table were determined using the listed certified value ± 1 times the associated CLP SOW CRQL. The acceptance ranges for all other analytes were determined using the certified value ± 15 percent of the listed certified value.

INORGANIC VENTURES™
Refine your results. Redefine your industry.

Certificate of Analysis

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:	CHEM-QC-4
Lot Number:	S2-MEB711674
Matrix:	3% (v/v) HNO3 3% (v/v) HF
Value / Analyte(s):	1 000 µg/mL ea: Boron, Molybdenum, Silicon, Tin, Titanium

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
Boron, B	**1 000 ± 7 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	**1 001 ± 6 µg/mL**		

Density: 1.032 g/mL (measured at 20 ± 4 ºC)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
B	ICP Assay	3107	110830
Mo	ICP Assay	3134	130418
Si	ICP Assay	3150	130912
Sn	ICP Assay	3161a	140917
Ti	ICP Assay	3162a	130925

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.

639

Characterization of CRM/RM by Two or More Methods

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

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

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

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

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

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

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

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

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

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

X_a = mean of Assay Method A with

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

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

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

u_{bb} = bottle to bottle homogeneity standard uncertainty

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

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

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

4.1 Thermometer Calibration

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

4.2 Balance Calibration

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

4.3 Glassware Calibration

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

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

N/A

6.0 INTENDED USE

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

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

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

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

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

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

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

November 02, 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

- **November 02, 2026**

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

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

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

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

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Michael Booth
Director, Quality Control

Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

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

(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

ICSA M5126 M5127 M5128 M5129 M5130

ICSB M5219 M5220 M5221 M5222 M5223

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.

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

M5289 R: 07/12/22 (84)

Certified Reference Material CRM

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

CERTIFIED WEIGHT REPORT:

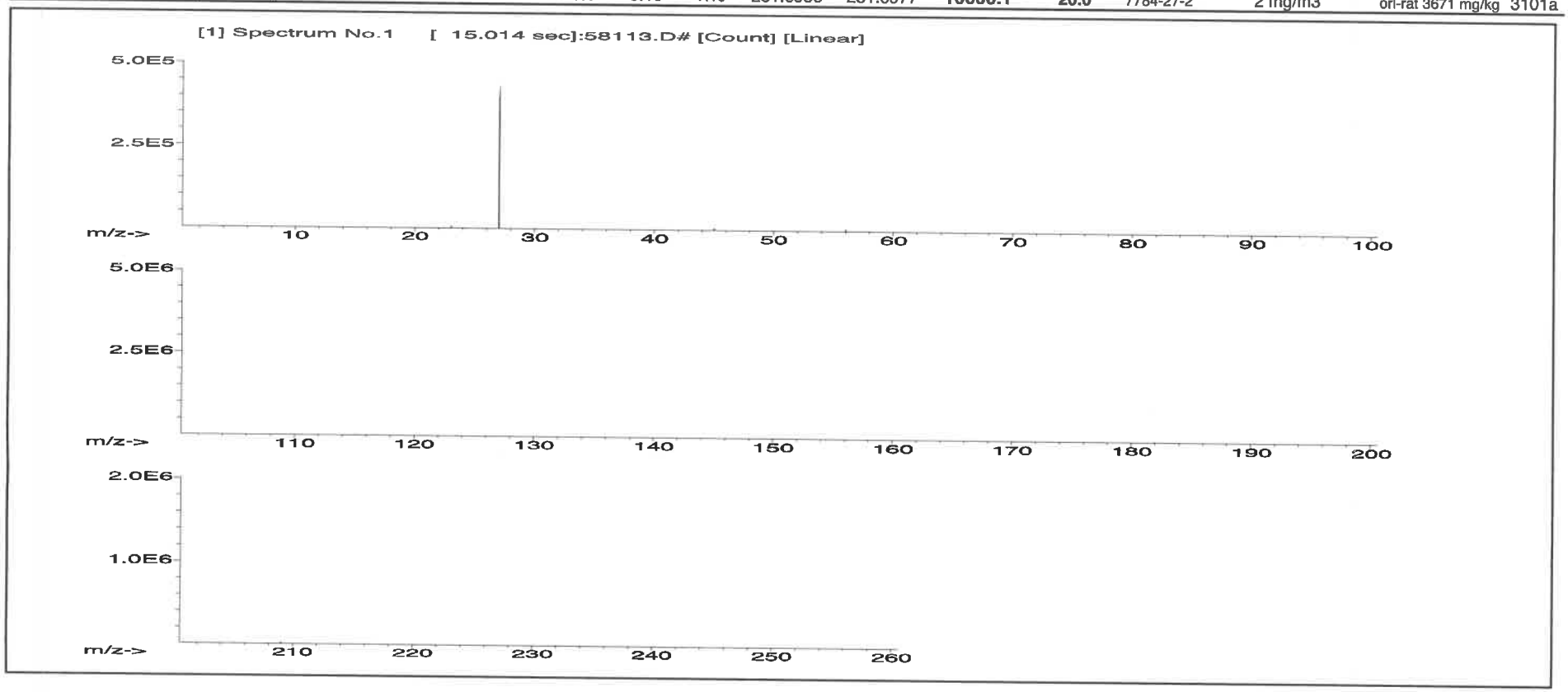
Part Number: 58113
Lot Number: 070622
Description: Aluminum (Al)

Expiration Date: 070625
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 2000.02

	Lot #		
Solvent:	20370011	Nitric Acid	
2%	40.0 (mL)	Nitric Acid	
	5E-05	Balance Uncertainty	
	0.058	Flask Uncertainty	

Formulated By:	Lawrence Barry	070622
Reviewed By:	Pedro L. Rentas	070622

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. Aluminum nitrate nonahydrate (Al)	IN022	ALD012021A1	10000	99.999	0.10	7.10	281.6956	281.6977	**10000.1**	**20.0**	7784-27-2	2 mg/m3	orl-rat 3671 mg/kg	3101a



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

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	T	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	<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).

QATS LABORATORY INORGANIC REFERENCE MATERIAL INITIAL CALIBRATION VERIFICATION SOLUTIONS (ICV1, ICV5, AND ICV6)

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 Metals in Dilute Acidic or Cyanide in Basic Aqueous Solutions
HAZARDOUS MATERIAL

Safety Data Sheets Available Upon Request

M5291
M5292
M5293
M5294
M5295

(A) *SAMPLE DESCRIPTION*

Enclosed is a set of one (1) or more Aqueous Inorganic Reference Materials containing various analyte concentrations. ICV1 and ICV5 are in a matrix of dilute nitric acid. ICV6 is in a matrix of dilute basic solution. **For the reference material source in reporting ICVs use "USEPA". For the reference material lot number for the ICV1, ICV5, and ICV6 solutions use "ICV1-1014", "ICV5-0415", and "ICV6-0400", respectively.**

(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 Initial Calibration Verification Solutions (ICVs) are to be used to evaluate the accuracy of the initial calibrations of ICP, AA, and Cyanide colorimetric instruments, and are to be used with the CLP SOWs and revisions. The values for each element in the ICVs are listed below in µg/L (ppb) for the resulting solution(s) after the dilution of the concentrate(s) according to the following instructions. Use Class 'A' glassware to prepare the solution(s).

ICV1-1014 For ICP-AES analysis, use a 10-fold dilution by pipetting 10 mL of the ICV1 concentrate into a 100 mL volumetric flask and dilute to volume with 2% (v/v) nitric acid.

ICV1-1014 For ICP-MS analysis, use a 50-fold dilution by pipetting 2 mL of the ICV1 concentrate into a 100 mL volumetric flask and dilute to volume with 1% (v/v) nitric acid.

ICV5-0415 For the cold vapor analysis of mercury by AA, use a 100-fold dilution by pipetting 1 mL of the ICV5 concentrate into a 100 mL volumetric flask and dilute to volume with 2% (v/v) nitric acid. The ICV5 concentrate is prepared in 0.05% (w/v) $K_2Cr_2O_7$ and 5% (v/v) nitric acid.

ICV6-0400 For the analysis of cyanide, use a 100-fold dilution by pipetting 1 mL of the ICV6 concentrate into a 100 mL volumetric flask and dilute to volume with Type II water. Distill this solution along with the samples before analysis. The cyanide concentrate is prepared from $K_3Fe(CN)_6$, Type II water, and 0.1 % sodium hydroxide, and will decompose rapidly if exposed to light.

NOTE: USE TYPE II WATER AND HIGH-PURITY ACIDS FOR ALL DILUTIONS.

(D) *CERTIFIED CONCENTRATIONS OF QATS ICV1, ICV5, AND ICV6 SOLUTIONS*

ICV1-1014		
Element	**Concentration (µg/L) (after 10-fold dilution)**	**Concentration (µg/L) (after 50-fold dilution)**
Al	2500	500
Sb	1000	200
As	1000	200
Ba	520	100
Be	510	100
Cd	510	100
Ca	10000	2000
Cr	520	100
Co	520	100
Cu	510	100
Fe	10000	2000
Pb	1000	200
Mg	6000	1200
Mn	520	100
Ni	530	110
K	9900	2000
Se	1000	200
Ag	250	50
Na	10000	2000
Tl	1000	210
V	500	100
Zn	1000	200

ICV5-0415		ICV6-0400	
Element	**Concentration (µg/L) (after 100-fold dilution)**	**Analyte**	**Concentration (µg/L) (after 100-fold dilution)**
Hg	4.0	**CN^-**	99

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

R: 09/08/22 (BH)

Certified Reference Material CRM

M5387 . M5389 . M5390 . M5391 . M5392

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

CERTIFIED WEIGHT REPORT:

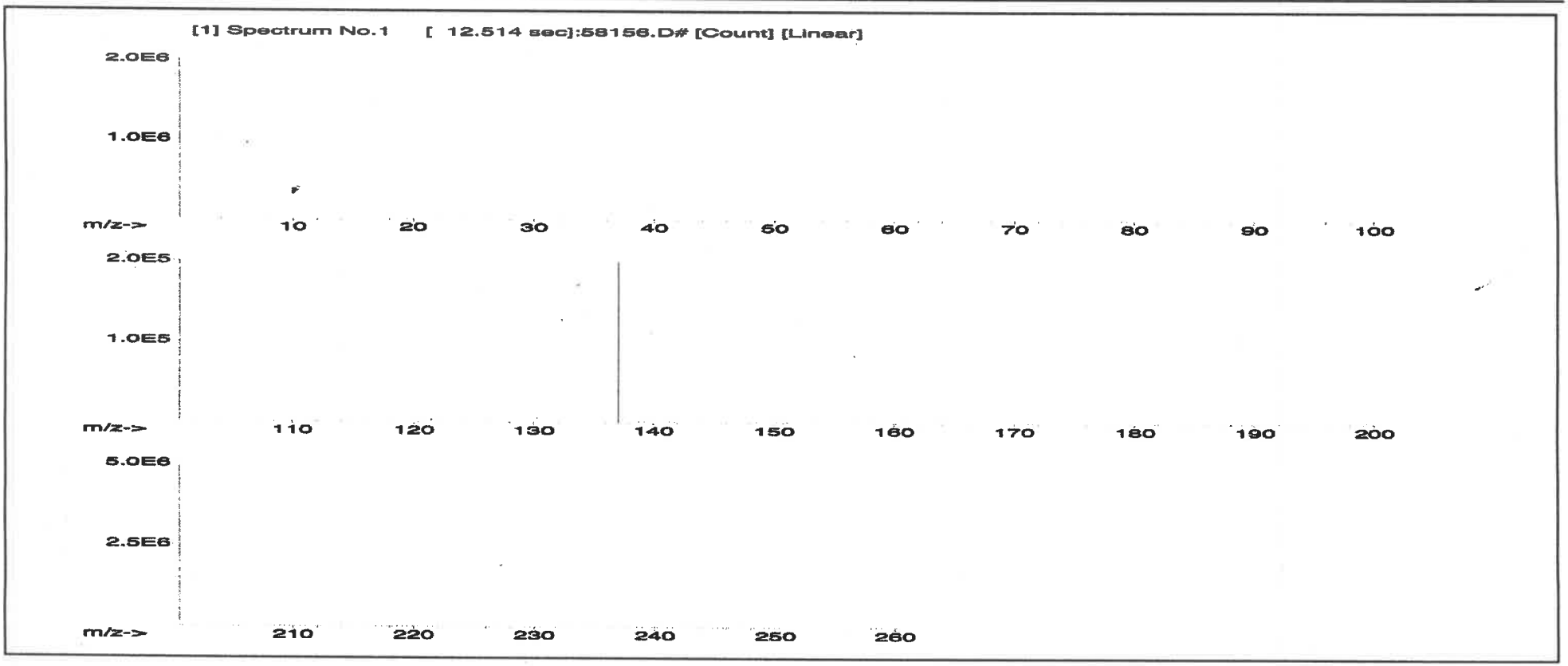
		Lot #		
Part Number:	**57056**	**Solvent:**	20510011	Nitric Acid
Lot Number:	**072122**			
Description:	**Barium (Ba)**	2%	40.0 (mL)	Nitric Acid
Expiration Date:	072125			
Recommended Storage:	Ambient (20 °C)			
Nominal Concentration (µg/mL):	**1000**			
NIST Test Number:	6UTB	5E-05	Balance Uncertainty	
Weight shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty	

Giovanni Esposito

Formulated By:	Giovanni Esposito	072122
Reviewed By:	Pedro L. Rentas	072122

648

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	3.82426	**1000.0**	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:

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).

649

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

M5429 R1 01/26/23 BH

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

CERTIFIED WEIGHT REPORT:

Part Number: 57103
Lot Number: 070622
Description: Lithium (Li)

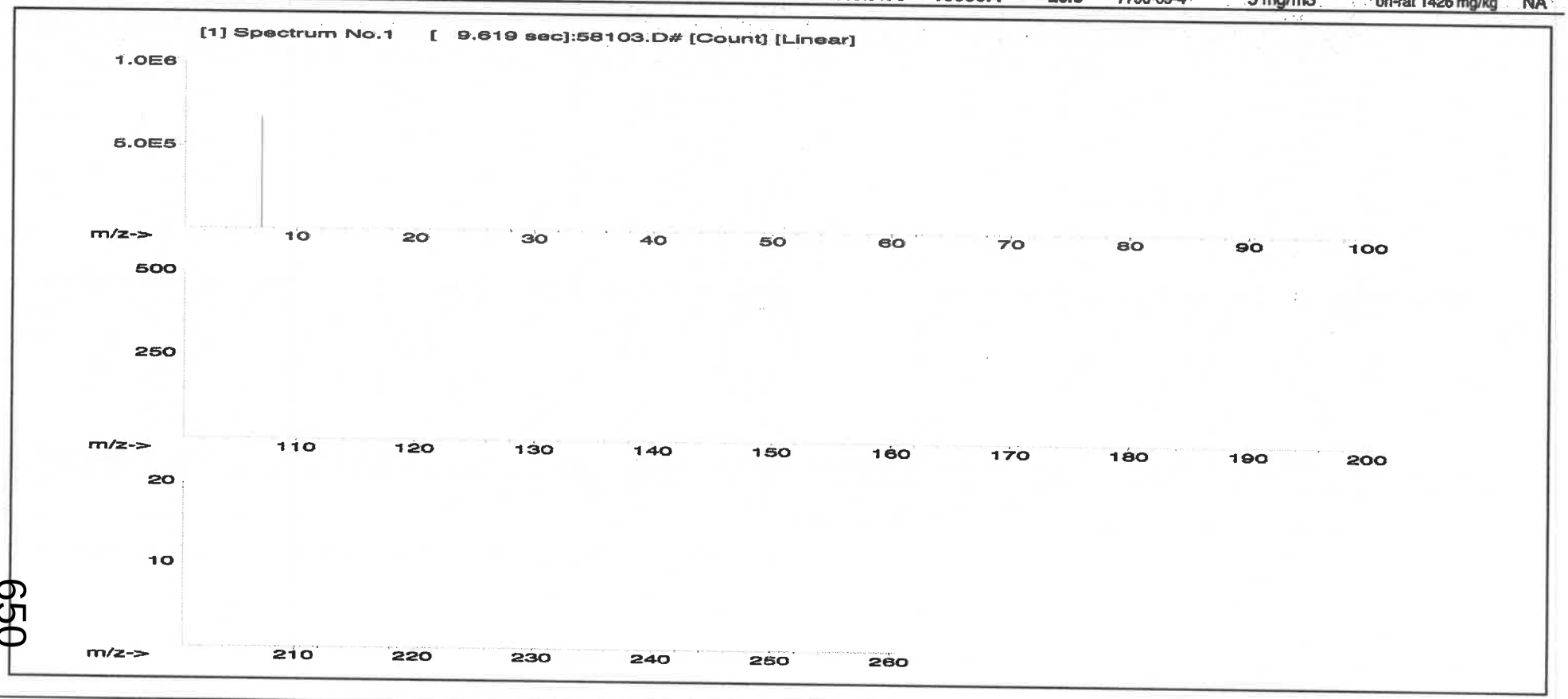
Expiration Date: 070625
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 1000.12

	Lot #			
Solvent:	20510011	Nitric Acid		
2%	20.0 (mL)	Nitric Acid		

5E-05 Balance Uncertainty
0.058 Flask Uncertainty

Formulated By:	Lawrence Barry	070622
Reviewed By:	Pedro L. Rentas	070622

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	10000	99.999	0.10	10.0	100.0134	100.0173	**10000.4**	**20.0**	7790-69-4	5 mg/m3	orl-rat 1426 mg/kg	NA



650

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

(T)= Target analyte

Physical Characterization:

Certified by:

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

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* 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).

651

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

M5497 - M5498 R: 03/17/23 BH

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

CERTIFIED WEIGHT REPORT:

Part Number: 58120
Lot Number: 031523
Description: Calcium (Ca)

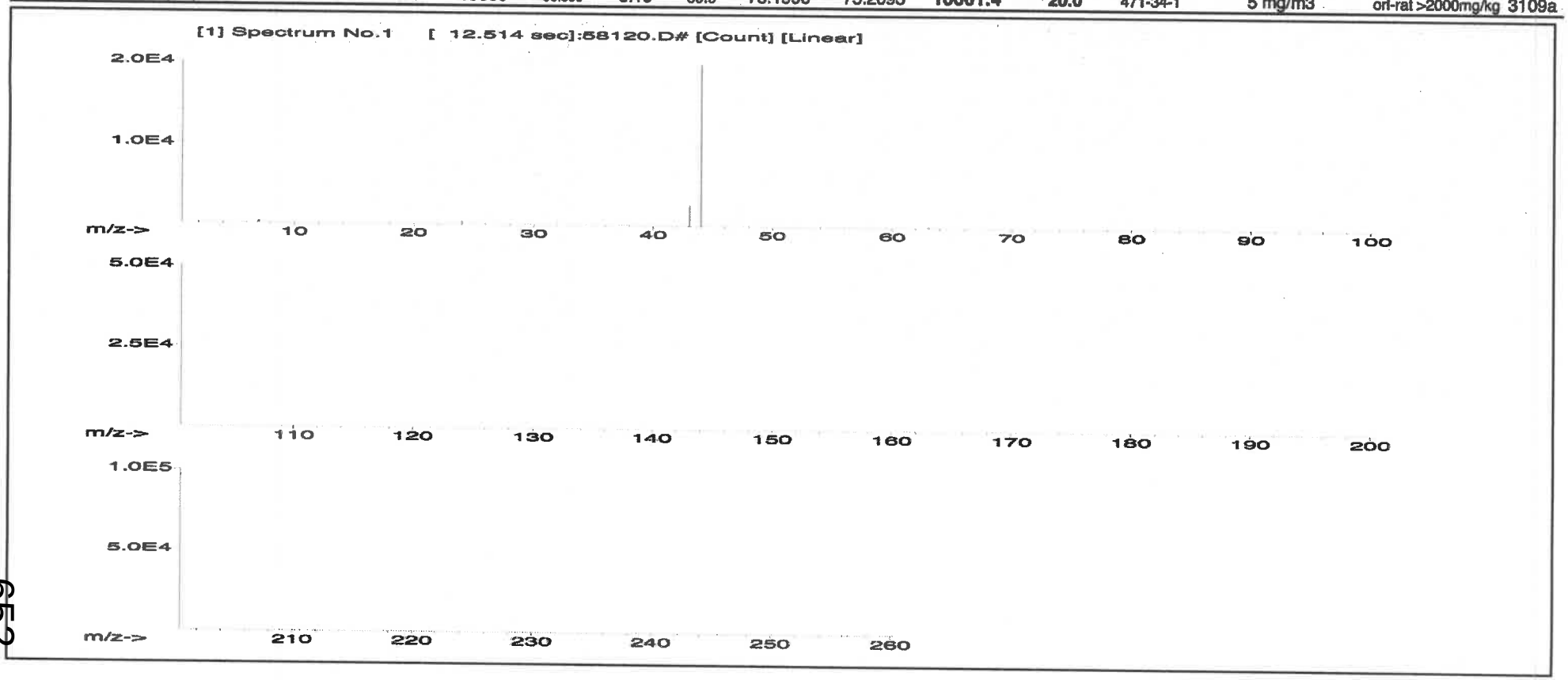
Expiration Date: 031526
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 3000.41 ± 0.058 Flask Uncertainty

	Lot #		
Solvent:	21110221	Nitric Acid	
2%	60.0 (mL)	Nitric Acid	
	5E-05	Balance Uncertainty	

Giovanni Esposito
Formulated By: Giovanni Esposito 031523

Pedro Rentas
Reviewed By: Pedro L. Rentas 031523

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	CAD072022A1	10000	99.999	0.10	39.9	75.1990	75.2093	**10001.4**	**20.0**	471-34-1	5 mg/m3	orl-rat >2000mg/kg	3109a



652

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

(T) = Target analyte

Physical Characterization:

Certified by:

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

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

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

M5497 - M5498 R: 03/17/23 BH

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

CERTIFIED WEIGHT REPORT:

Part Number: 58120
Lot Number: 031523
Description: Calcium (Ca)

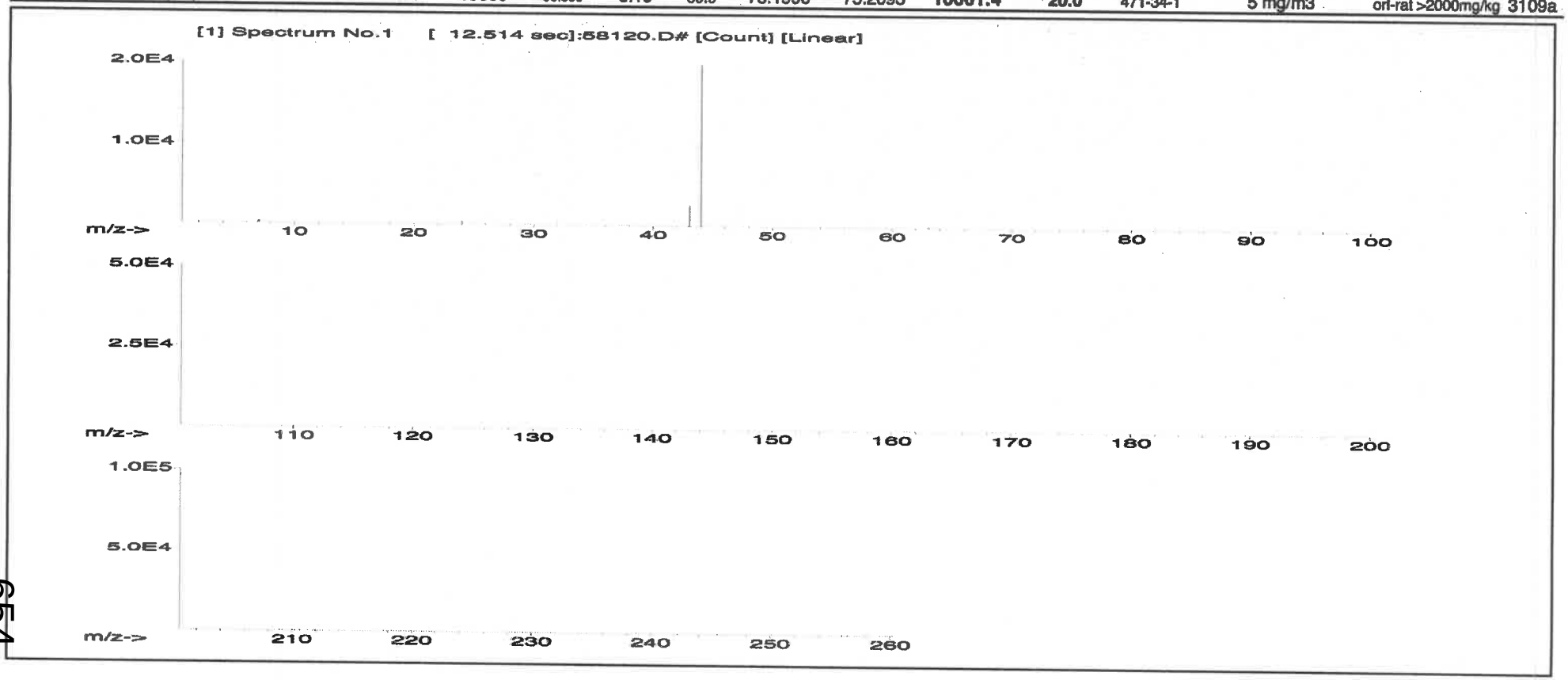
Expiration Date: 031526
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 3000.41 0.058 Flask Uncertainty

	Lot #		
Solvent:	21110221	Nitric Acid	
2%	60.0 (mL)	Nitric Acid	
	5E-05	Balance Uncertainty	

Giovanni Esposito
Formulated By: Giovanni Esposito 031523

Pedro Rentas
Reviewed By: Pedro L. Rentas 031523

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	CAD072022A1	10000	99.999	0.10	39.9	75.1990	75.2093	**10001.4**	**20.0**	471-34-1	5 mg/m3	orl-rat >2000mg/kg	3109a



654

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

(T) = Target analyte

Physical Characterization:

Certified by:

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

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

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

MS513 R:03/17/23

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

CERTIFIED WEIGHT REPORT:

Part Number: 57182
Lot Number: 061522
Description: Lead (Pb)

Expiration Date: 061525
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 2000.02

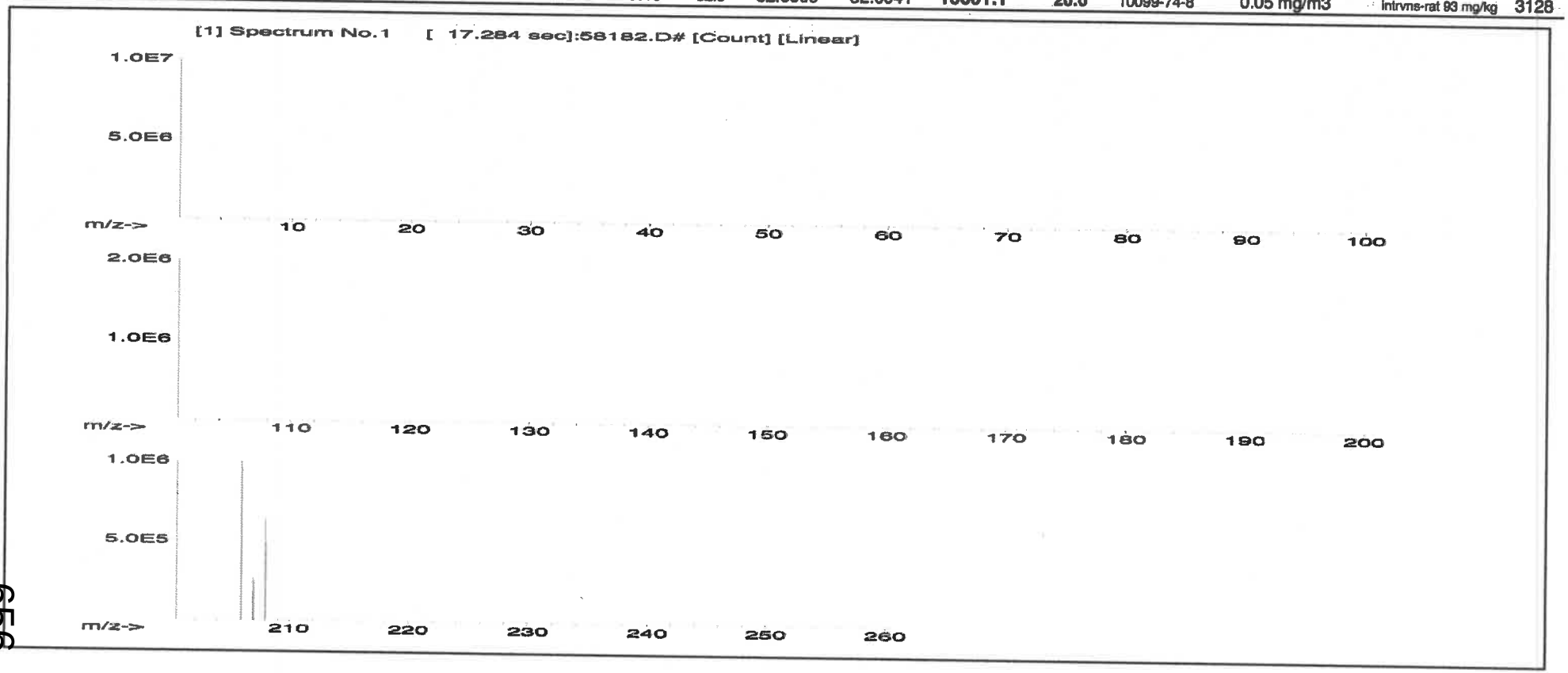
	Lot #		
Solvent:	20510011	Nitric Acid	
2%	40.0 (mL)	Nitric Acid	

5E-05 Balance Uncertainty
0.058 Flask Uncertainty

Giovanni Esposito

Formulated By:	Giovanni Esposito	061522
Reviewed By:	Pedro L. Rentas	061522

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	32.0041	**10001.1**	**20.0**	10099-74-8	0.05 mg/m3	Intrvns-rat 93 mg/kg	3128



656

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

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

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

(T)= Target analyte

Physical Characterization:

Certified by:

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

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* 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

M5514 , M5515 R: 03/17/23

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

658

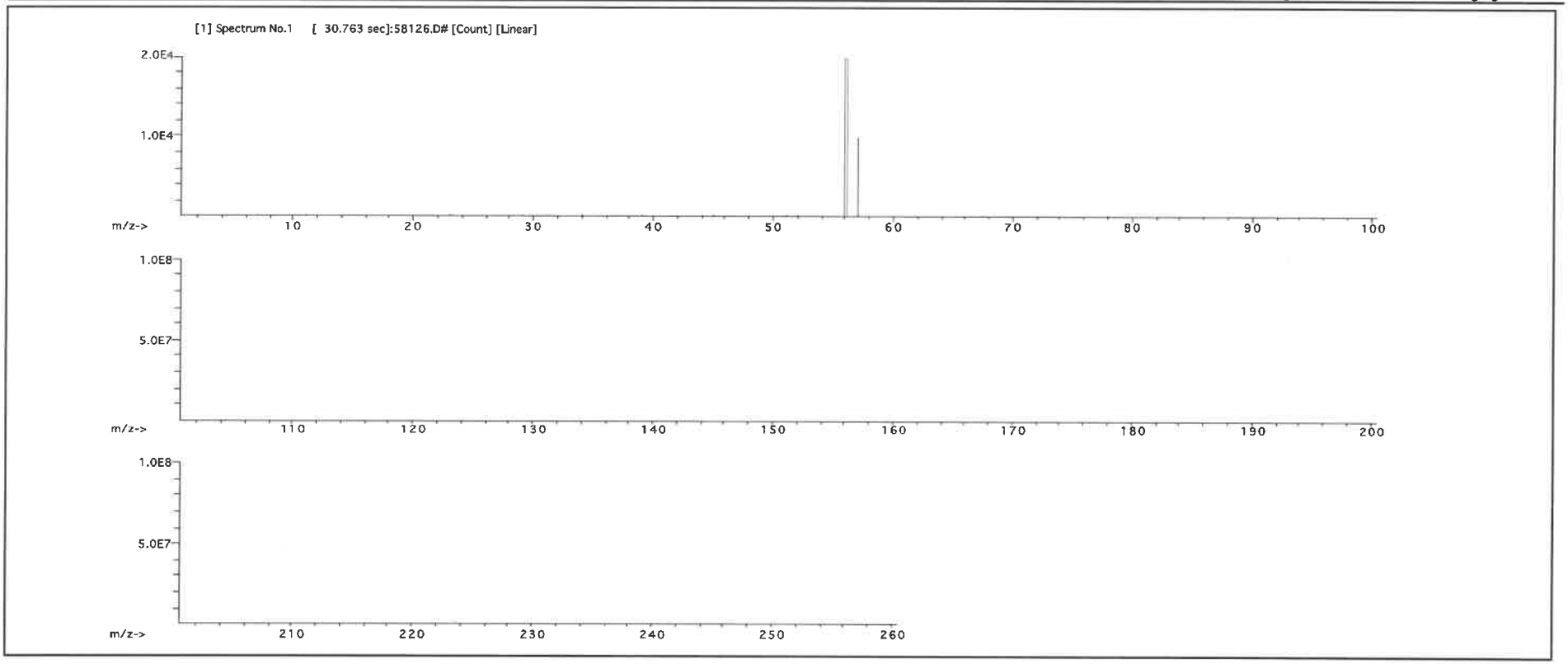
CERTIFIED WEIGHT REPORT:

Part Number:	**58126**		**Lot #**		
Lot Number:	**092122**	**Solvent:**	20510011	Nitric Acid	
Description:	**Iron (Fe)**	7.0%	350.0 (mL)	Nitric Acid	
Expiration Date:	092125				
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):	5000.1	0.12	Flask Uncertainty		

Giovanni Esposito

Formulated By:	Giovanni Esposito	092122
Reviewed By:	Pedro L. Rentas	092122

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	**Actual Conc. (µg/mL)**	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Iron (Fe)	IN346	2224912-500	10000	99.995	0.10	100.0	50.0034	50.0111	**10001.5**	**20.0**	7439-89-6	5 mg/m3	orl-rat 7500mg/kg	3126a



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

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.10	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.10	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.05	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.10	Ge	<0.10	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.05
B	<0.02	Cu	<0.10	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

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).

659

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

M5519. M5520 (BH) R:03/17/23

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

CERTIFIED WEIGHT REPORT:

Part Number: 58119
Lot Number: 120822
Description: Potassium (K)

Expiration Date: 120825
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB

Weight shown below was diluted to (mL): 3000.4 ± 0.06 Flask Uncertainty

		Lot #		
Solvent:	20510011	Nitric Acid		
2%	60.0 (mL)	Nitric Acid		

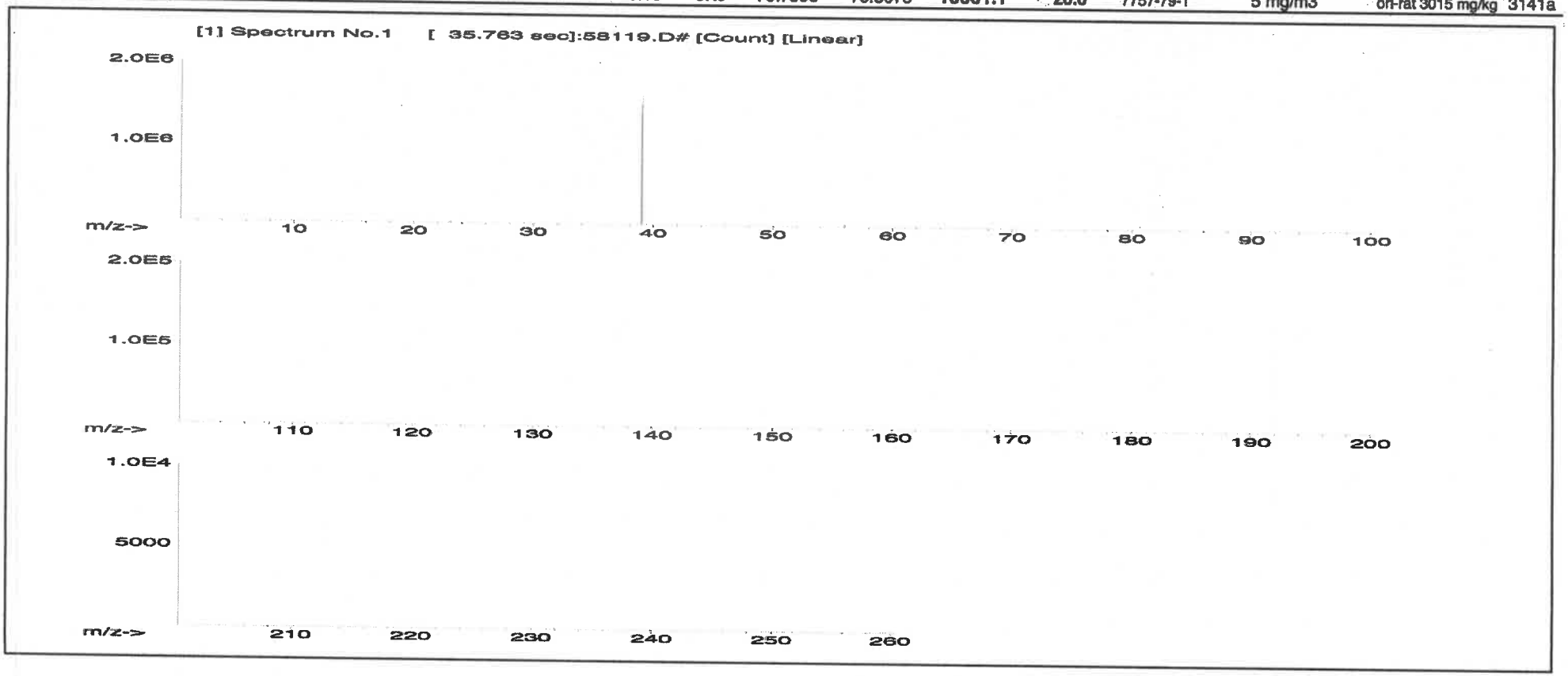
5E-05 Balance Uncertainty

Giovanni Esposito

Formulated By:	Giovanni Esposito	120822
Reviewed By:	Pedro L. Rentas	120822

099

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	KD022021A1	10000	99.999	0.10	37.6	79.7990	79.8075	**10001.1**	**20.0**	7757-79-1	5 mg/m3	orl-rat 3015 mg/kg	3141a



661

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:

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

M5658 R ! 8/25/23

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

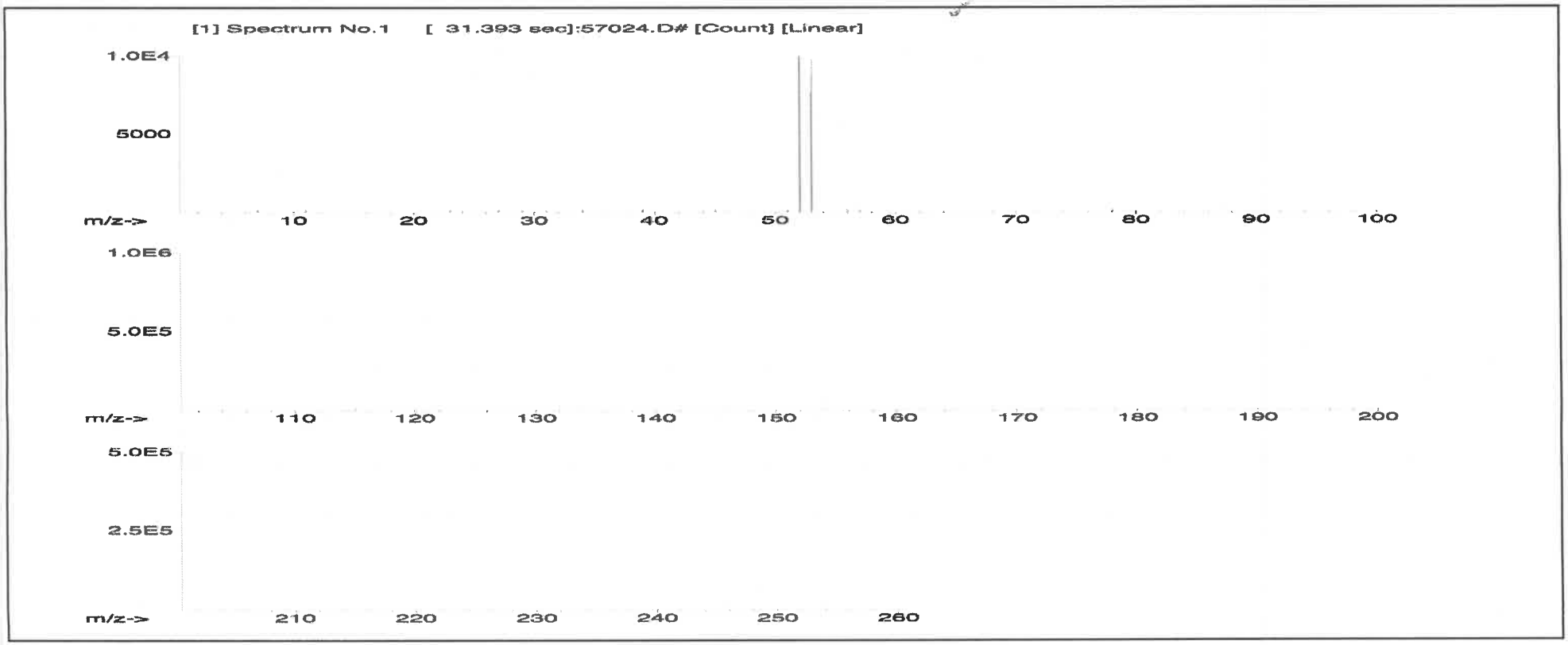
662

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



663

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).

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

M5697 R: 10/27/23

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

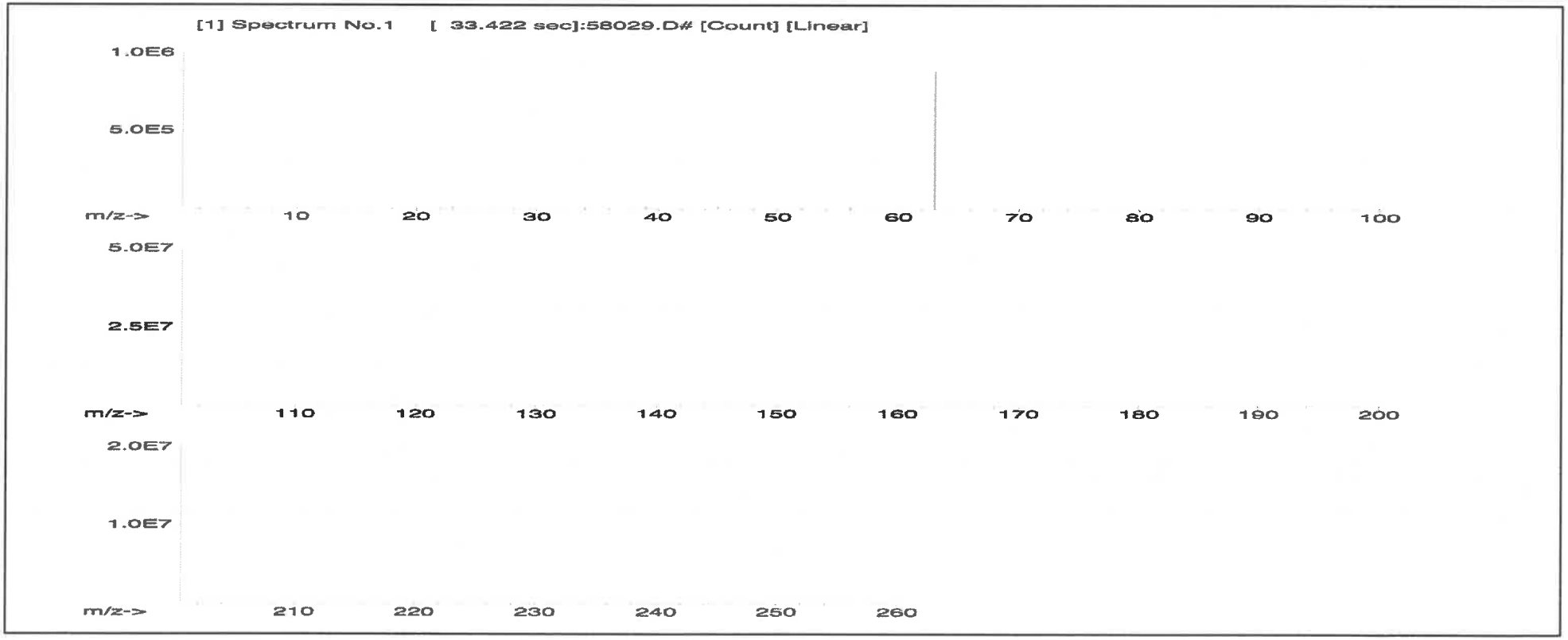
664

CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:	
Part Number:	**58029**	24002546	Nitric Acid	
Lot Number:	**102523**			
Description:	**Copper (Cu)**			
		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. Copper(II) nitrate trihydrate (Cu)	58129	100223	0.1000	200.0	0.084	1000	10000.1	**1000.0**	**2.2**	10031-43-3	1 mg/m3	orl-rat 794 mg/kg	3114



595

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

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

(T) = Target analyte

Physical Characterization:

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

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* 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

M5648 R: 10/27/23

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

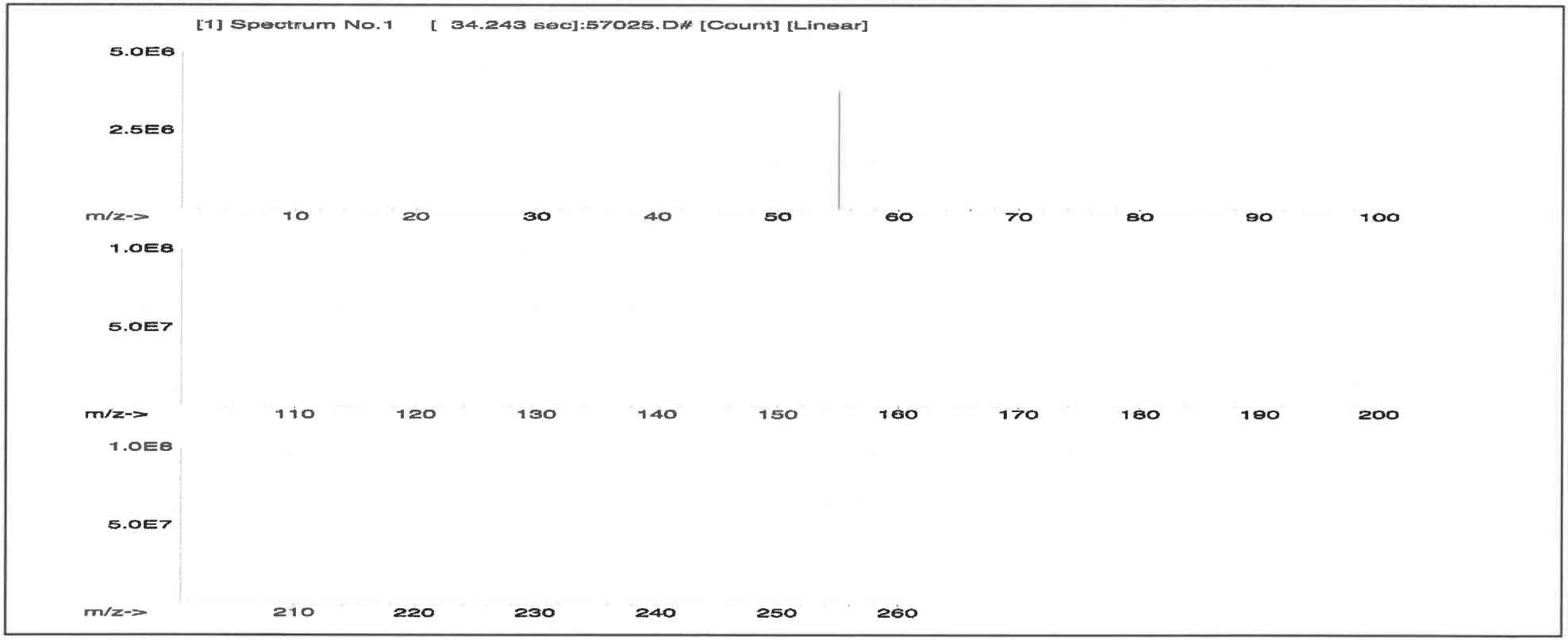
999

CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:	
Part Number:	**58025**	24002546	Nitric Acid	
Lot Number:	**102623**			
Description:	**Manganese (Mn)**			
		2.0%	60.0 (mL)	Nitric Acid
Expiration Date:	102626			
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):	3000.41	0.058	Flask Uncertainty	

Formulated By:	Benson Chan	102623
Reviewed By:	Pedro L. Rentas	102623

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. Manganese(II) nitrate tetrahydrate (Mn)	58125	071123	0.1000	300.0	0.084	1000	10000.1	**1000.0**	**2.1**	20694-39-7	5 mg/m3	orl-rat >300mg/kg	3132



799

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 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

M5768 M5769 (BP) R:1/3/24

Certified Reference Material CRM

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

898

CERTIFIED WEIGHT REPORT:

Part Number: 58112
Lot Number: 091823
Description: Magnesium (Mg)

Expiration Date: 091826
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

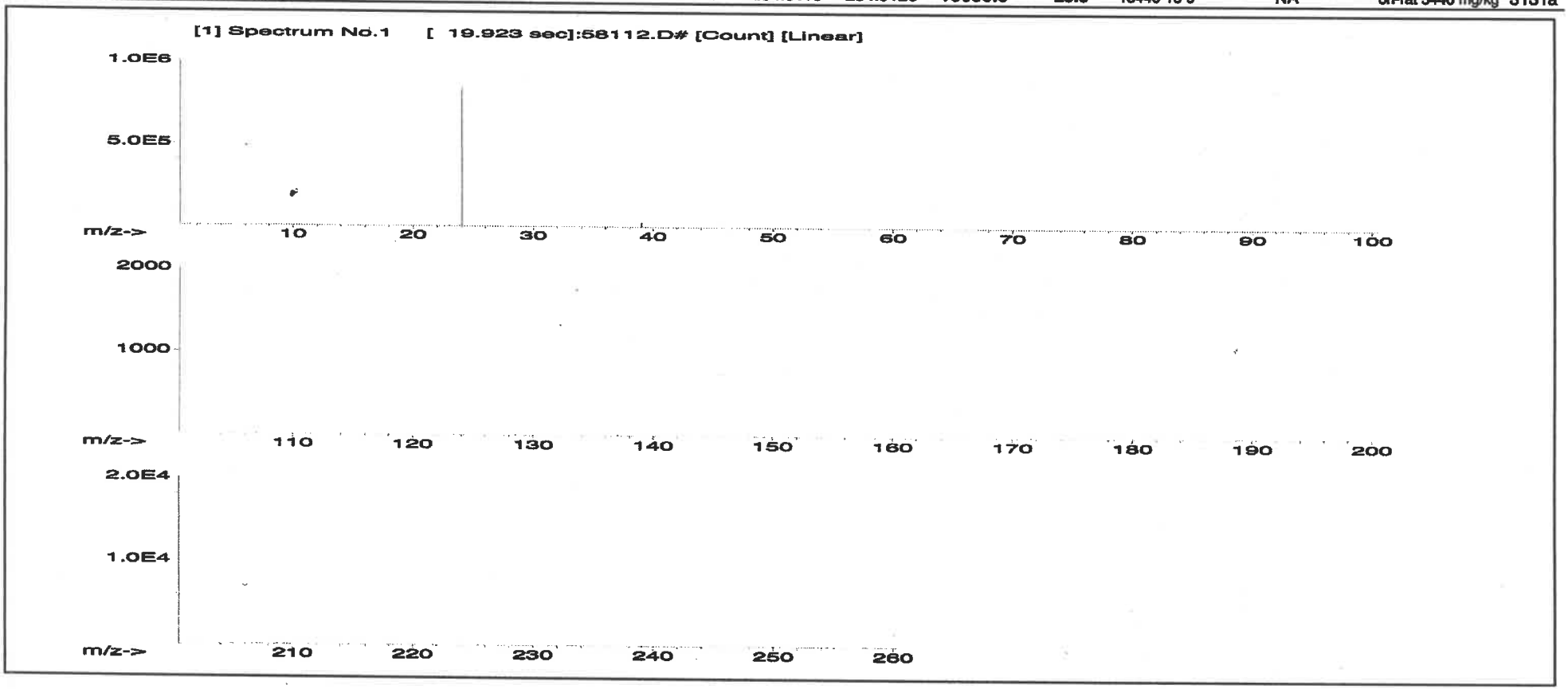
5E-05 Balance Uncertainty

M5768, M5769 (BP) R: 1/3/24

Formulated By: Lawrence Barry 091823

Reviewed By: Pedro L. Rentas 091823

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	234.9118	234.9126	**10000.0**	**20.0**	13446-18-9	NA	orl-rat 5440 mg/kg	3131a



699

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

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

(T) = Target analyte

Physical Characterization:

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

Certified by:

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

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

M5768 M5769 (BP) R:1/3/24

Certified Reference Material CRM

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

670

CERTIFIED WEIGHT REPORT:

Part Number: 58112
Lot Number: 091823
Description: Magnesium (Mg)

Expiration Date: 091826
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	

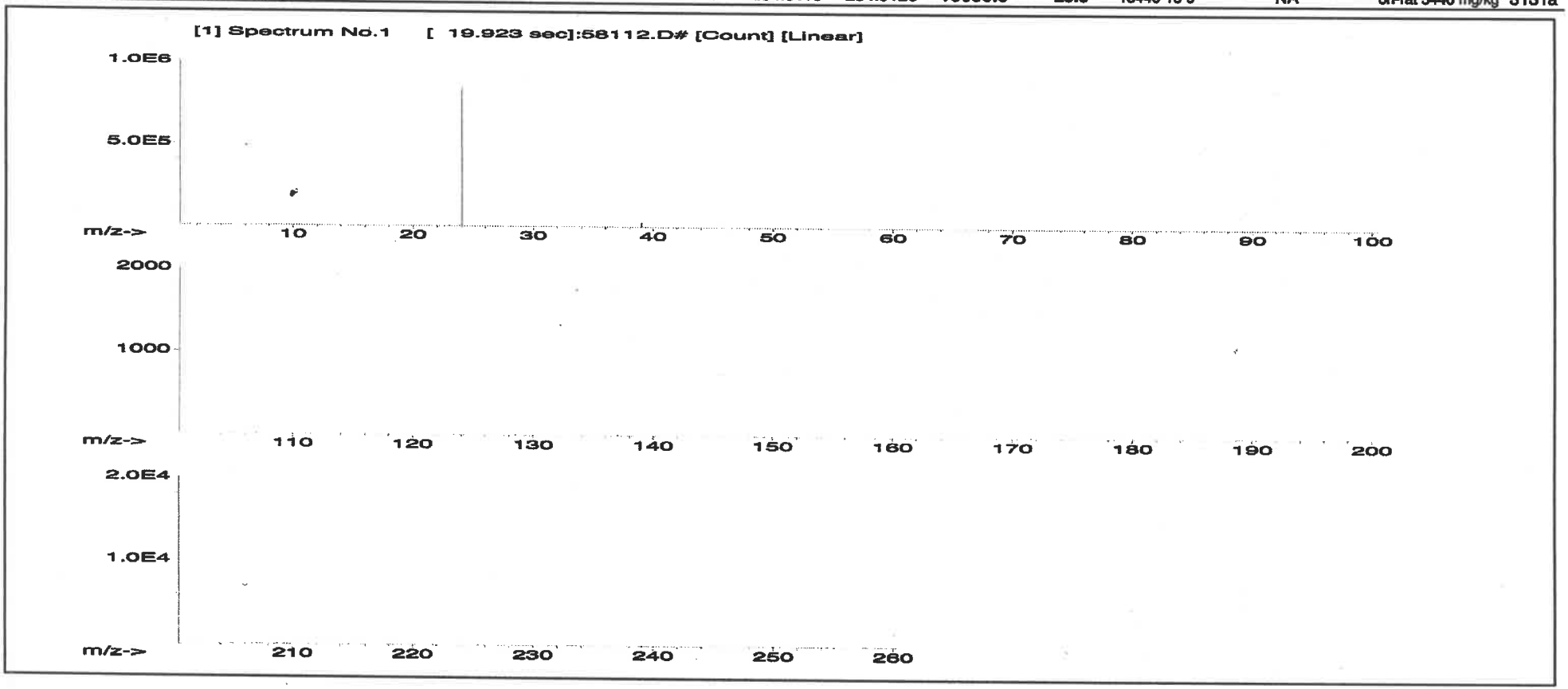
5E-05 Balance Uncertainty

M5768, M5769 (BP) R: 1/3/24

Formulated By: Lawrence Barry 091823

Reviewed By: Pedro L. Rentas 091823

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	234.9118	234.9126	**10000.0**	**20.0**	13446-18-9	NA	ori-rat 5440 mg/kg	3131a



671

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

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

(T) = Target analyte

Physical Characterization:

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

Certified by:

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

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

R: 02/09/24 M5798

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

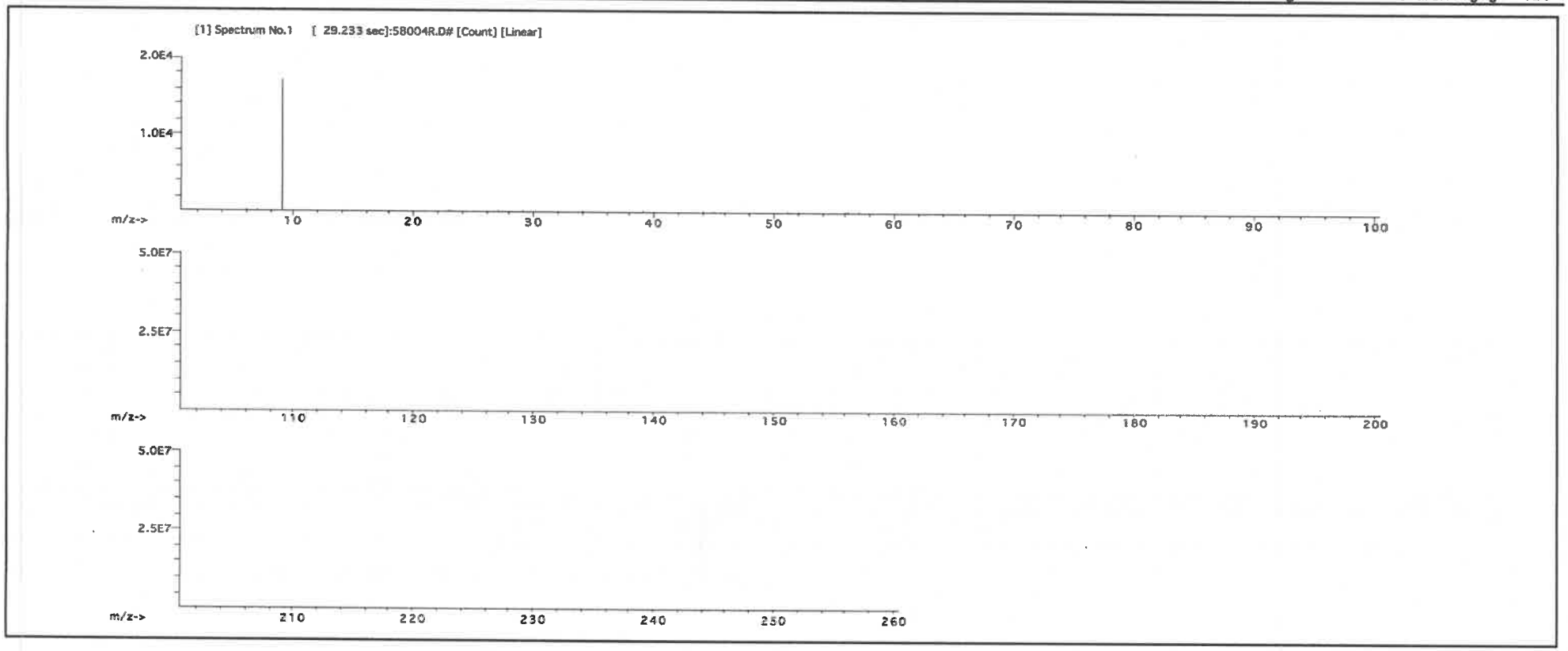
672

CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:	
Part Number:	**57004**	24002546	Nitric Acid	
Lot Number:	**102523**			
Description:	**Beryllium (Be)**	2.0%	40.0 (mL)	Nitric Acid
Expiration Date:	102526			
Recommended Storage:	Ambient (20 °C)			
Nominal Concentration (µg/mL):	**1000**			
NIST Test Number:	6UTB	5E-05	Balance Uncertainty	
Volume shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty	

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

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Beryllium nitrate (Be)	58104	091423	0.1000	200.0	0.084	1000	10001.5	**1000.0**	**2.2**	13597-99-4	0.2ug/m3	intrvns-rat 3.16mg/kg	NA



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

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

(T) = Target analyte

Physical Characterization:

Certified by:

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

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* 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).

673

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

R? 02/09/24 IM5799 BA

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

674

CERTIFIED WEIGHT REPORT:

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

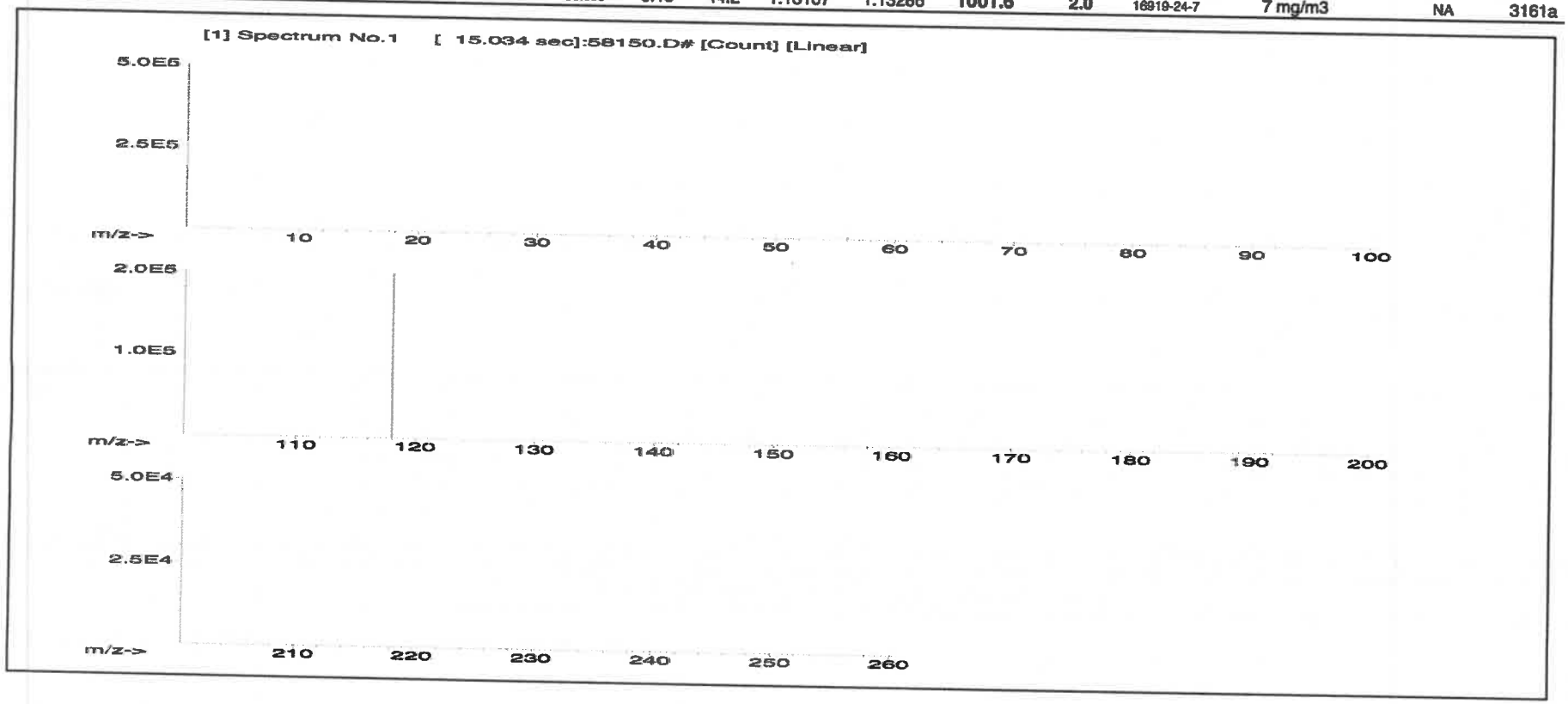
Expiration Date: 071126
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 1000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 499.93

	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



675

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

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<500	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	T	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

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

Certified by:

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

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

R: 02/09/24 IM5800 BH

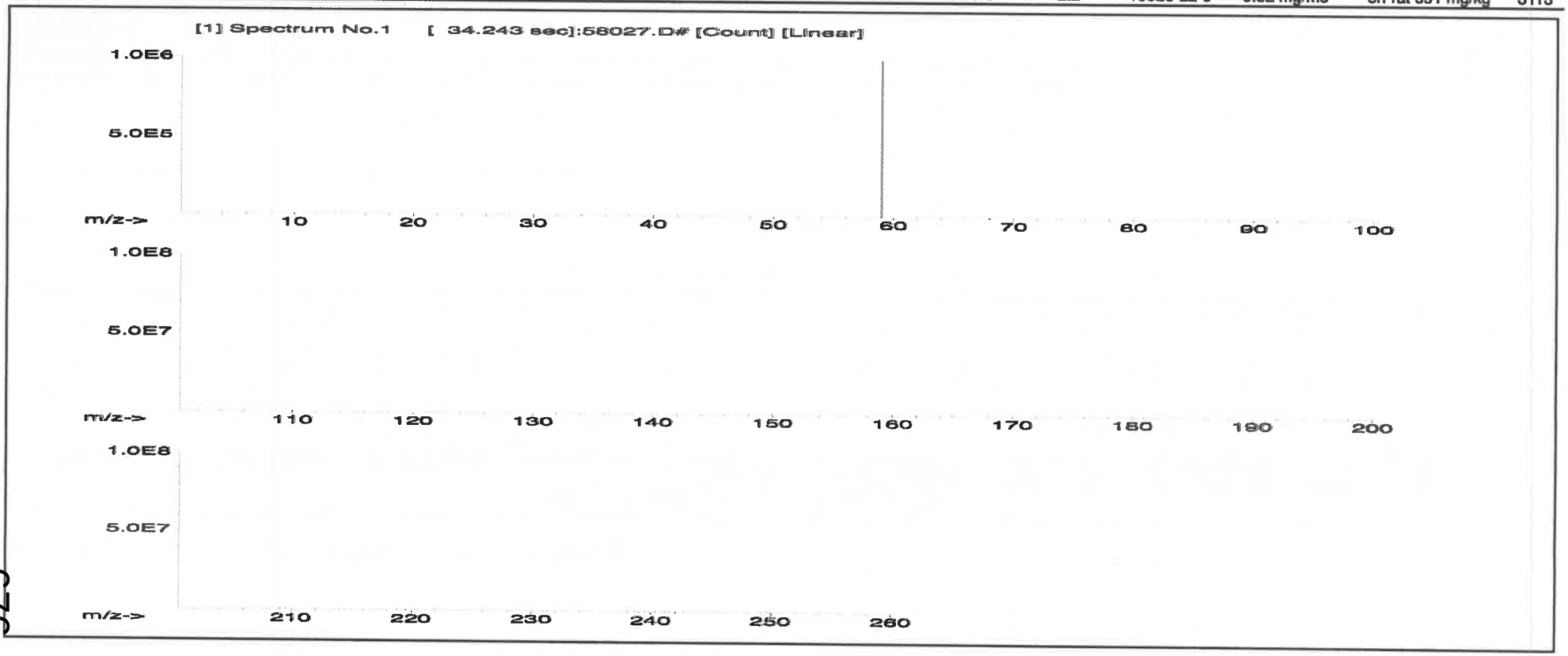
ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

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



676

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

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

(T)= Target analyte

Physical Characterization:

Certified by:

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

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

677

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

R: 02/09/24 IM5801 BH

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

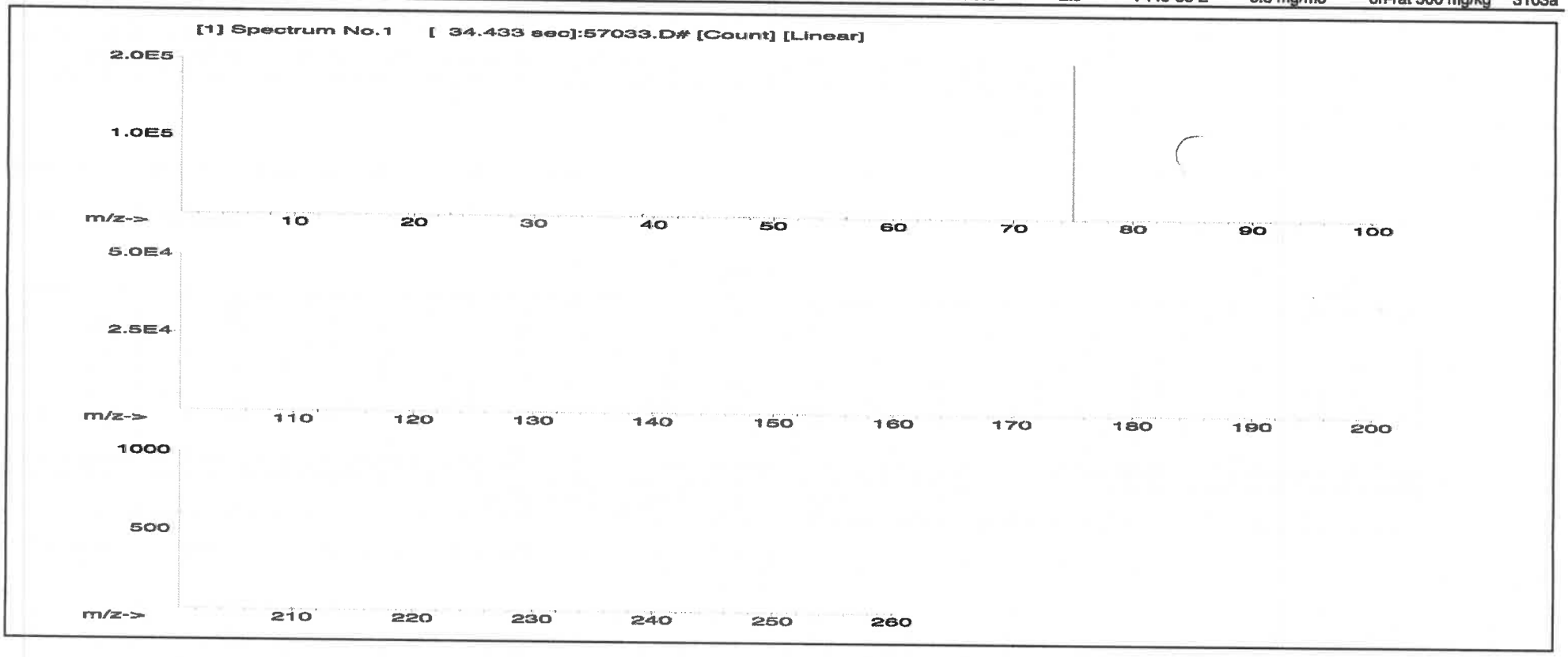
678

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



679

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.

* 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

R1 02/09/24. M5815

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

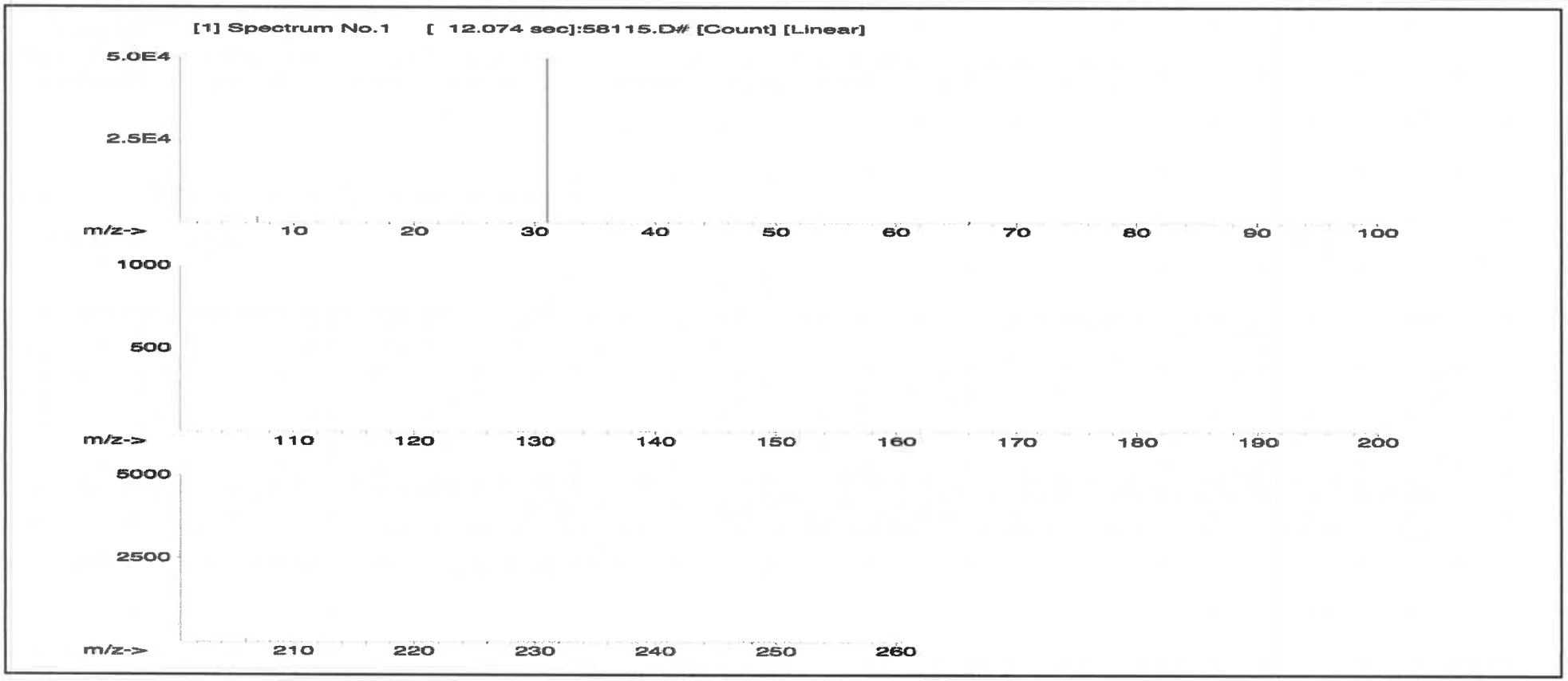
680

CERTIFIED WEIGHT REPORT:

			Lot #	
Part Number:	**57115**	**Solvent:**	21110221	Nitric Acid
Lot Number:	**041723**			
Description:	**Phosphorous (P)**	2%	40.0 (mL)	Nitric Acid
Expiration Date:	041726			
Recommended Storage:	Ambient (20 °C)			
Nominal Concentration (µg/mL):	**10000**			
NIST Test Number:	6UTB	5E-05	Balance Uncertainty	
Weight shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty	

Formulated By:	Lawrence Barry	041723
Reviewed By:	Pedro L. Rentas	041723

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	10000	99.999	0.10	27.5	72.7287	72.7289	**10000.0**	**20.0**	7722-76-1	5 mg/m3	orl-rat >2000mg/kg	3186



681

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

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

R: 02/09/24 M5816

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

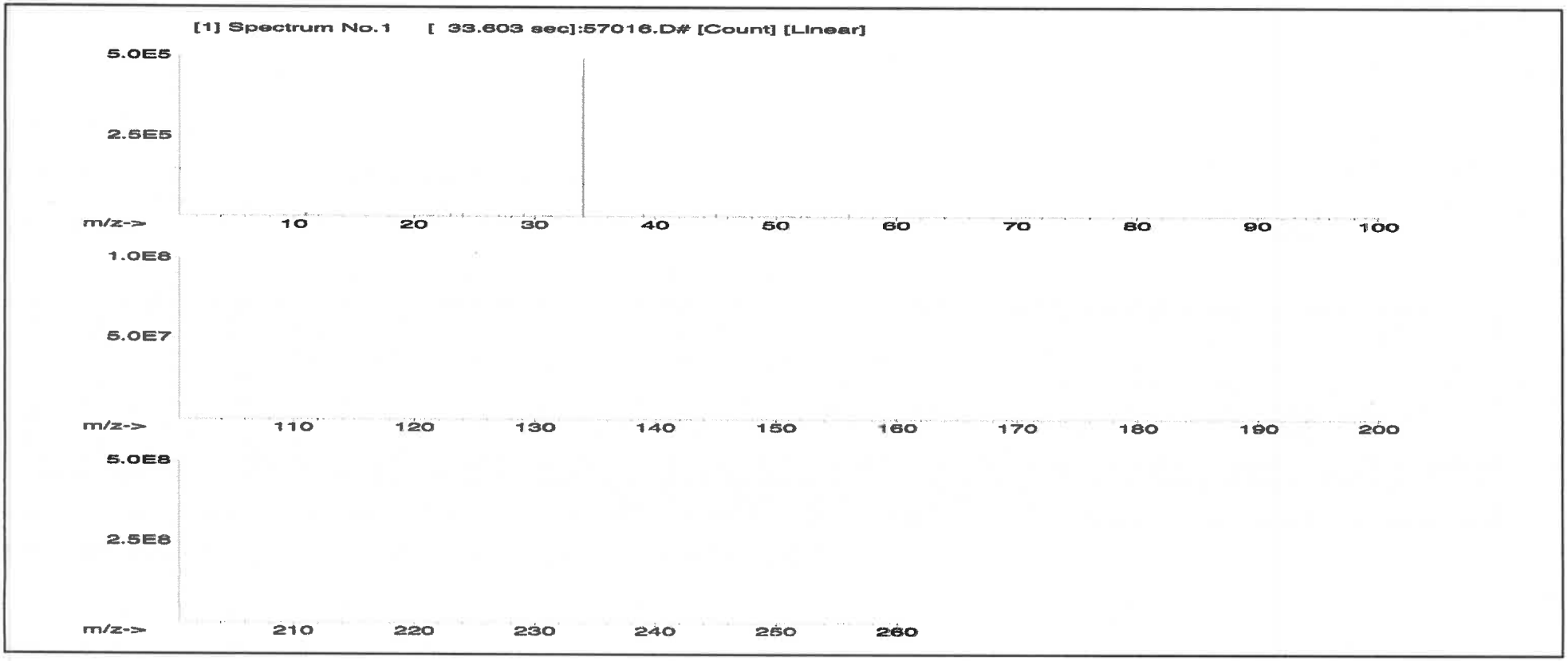
682

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



683

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.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

R: 02/09/24 M5817

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

684

CERTIFIED WEIGHT REPORT:

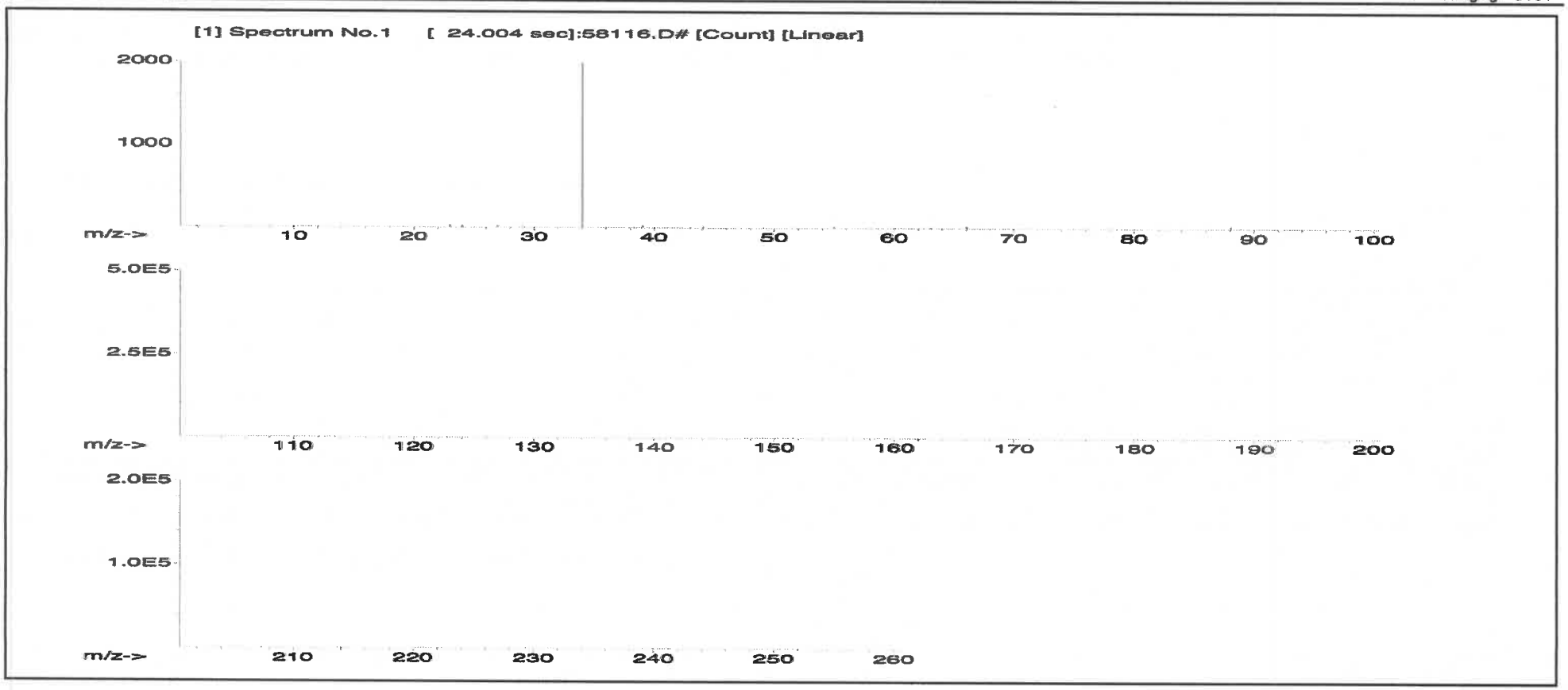
Part Number: 57116
Lot Number: 071123
Description: Sulfur (S)

Lot #
Solvent: 071123 ASTM Type 1 Water

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

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



685

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.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

R: 02/09/24 M.5818

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

989

CERTIFIED WEIGHT REPORT:

Part Number: 57014
Lot Number: 122023
Description: Silicon (Si)

Expiration Date: 122026
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 1000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 1999.48 0.058 Flask Uncertainty

Lot #

Solvent: 24002546 Nitric Acid

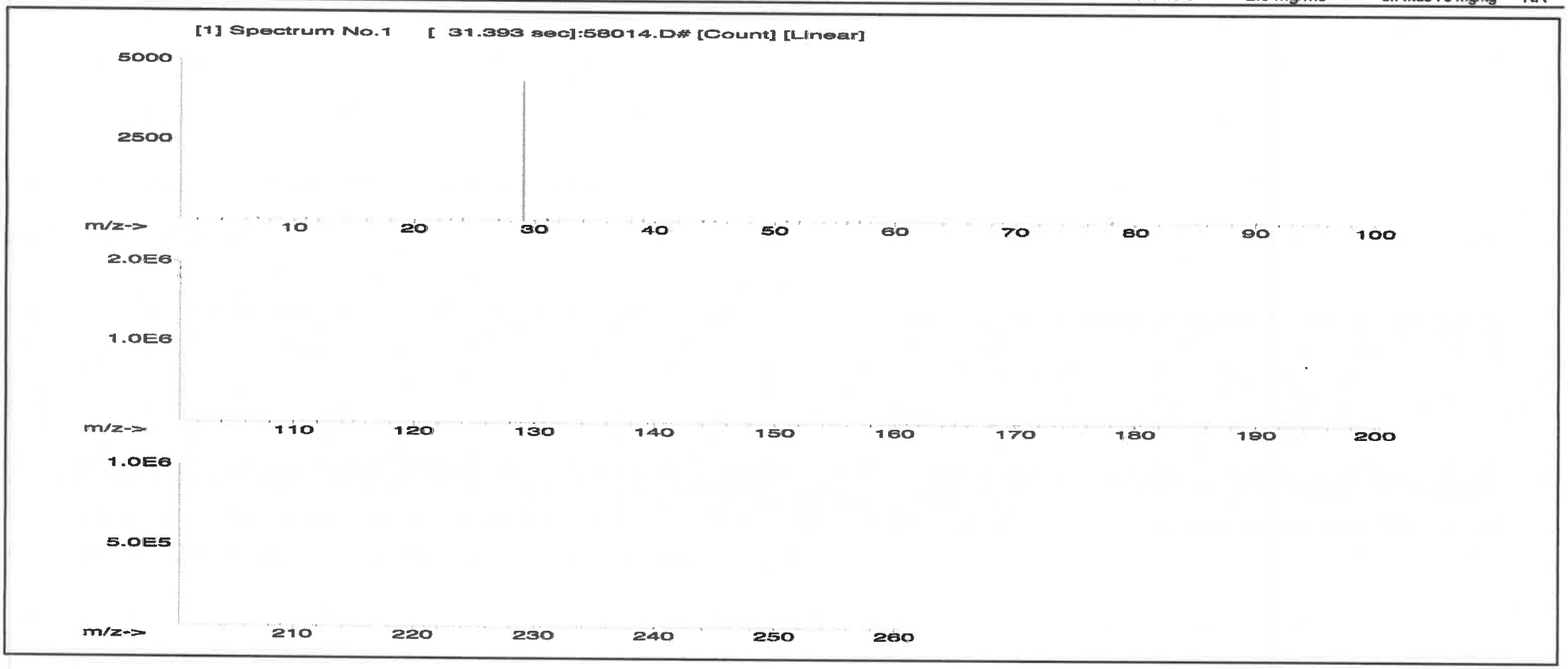
2% 40.0 (mL) Nitric Acid

5E-05 Balance Uncertainty

Aleah O'Brady
Formulated By: Aleah O'Brady 122023

Pedro Rentas
Reviewed By: Pedro L. Rentas 122023

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 hexafluorosilicate (Si)	IN009	SID082022A1	1000	99.999	0.10	14.4	13.8854	13.8855	**1000.0**	**2.0**	16919-19-0	2.5 mg/m3	orl-mus 70 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	<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	T	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

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

Certified by:

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

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

R: 02/09/24 M5819

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

CERTIFIED WEIGHT REPORT:

Part Number: 58030
Lot Number: 111623
Description: Zinc (Zn)

Expiration Date: 111626
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 1000
NIST Test Number: 6UTB

Weight shown below was diluted to (mL): 3000.4 0.06 Flask Uncertainty

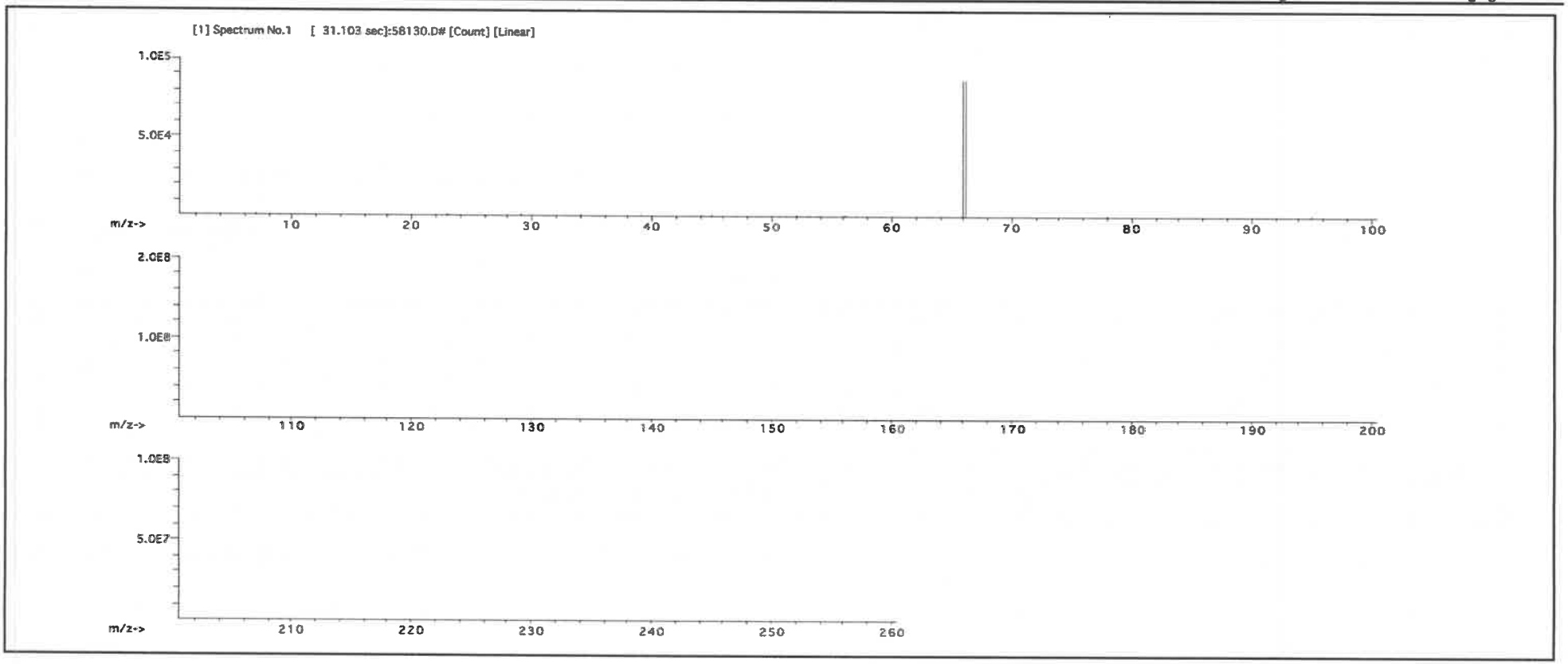
	Lot #		
Solvent:	24002546	Nitric Acid	
2%	60.0 (mL)	Nitric Acid	

5E-05 Balance Uncertainty

Formulated By:	Benson Chan	111623
Reviewed By:	Pedro L. Rentas	111623

689

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	12.3475	12.3502	**1000.2**	**2.0**	10196-18-6	1 mg/m3	orl-rat 1190mg/kg	3168



689

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:

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

Certified by:

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

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

R: 02/09/24 M5820

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

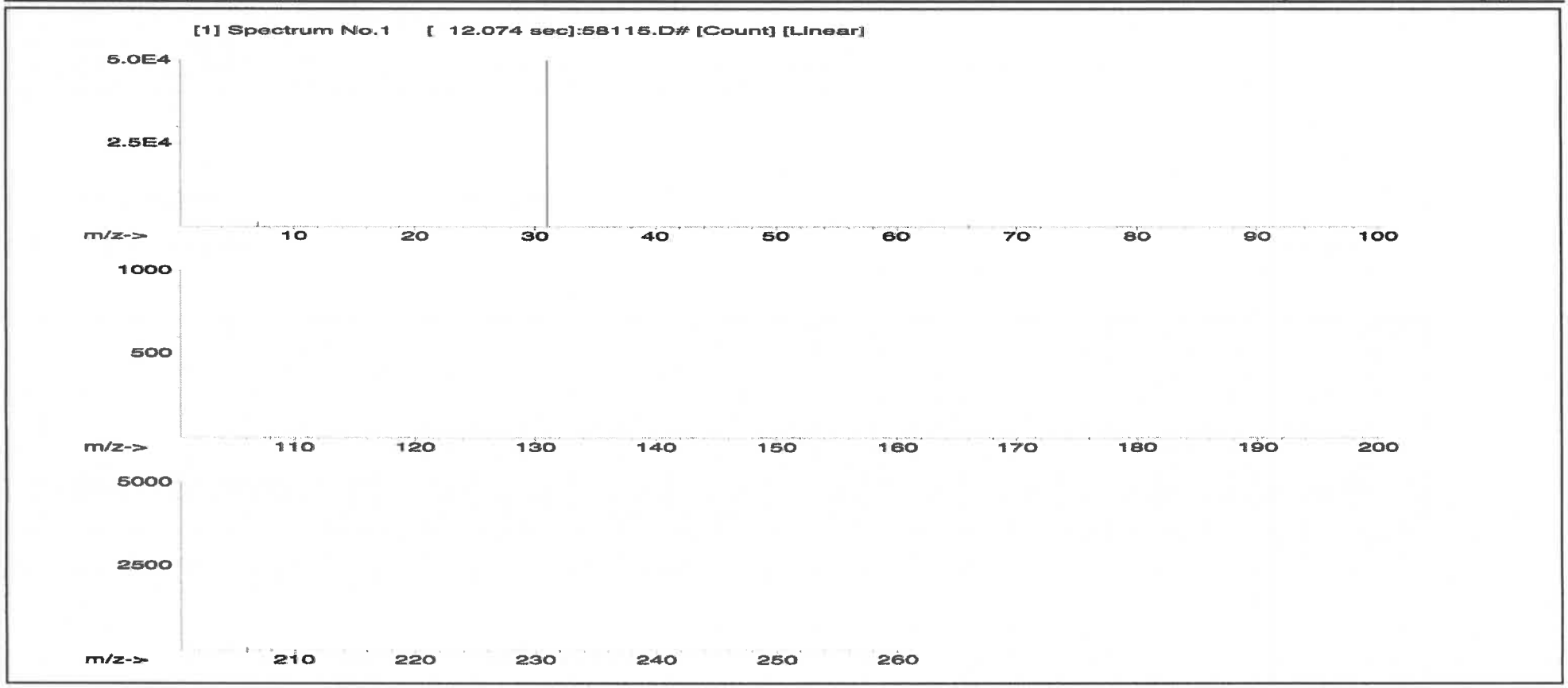
690

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



691

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).
* 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

M5959 R: 6/14/24.

300 Technology Drive
Christiansburg, VA 24073 USA
inorganicventures.com

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

1.0 ACCREDITATION / REGISTRATION

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

ACCREDITED Testing Laboratory Certificate 863.01
ACCREDITED Reference Material Producer Certificate 863.02

2.0 PRODUCT DESCRIPTION

Product Code:	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.

692

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	<	0.004600	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

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

M5960 KK R. 6/11/24

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

CERTIFIED WEIGHT REPORT:

Part Number: 57028
Lot Number: 041124
Description: Nickel (Ni)

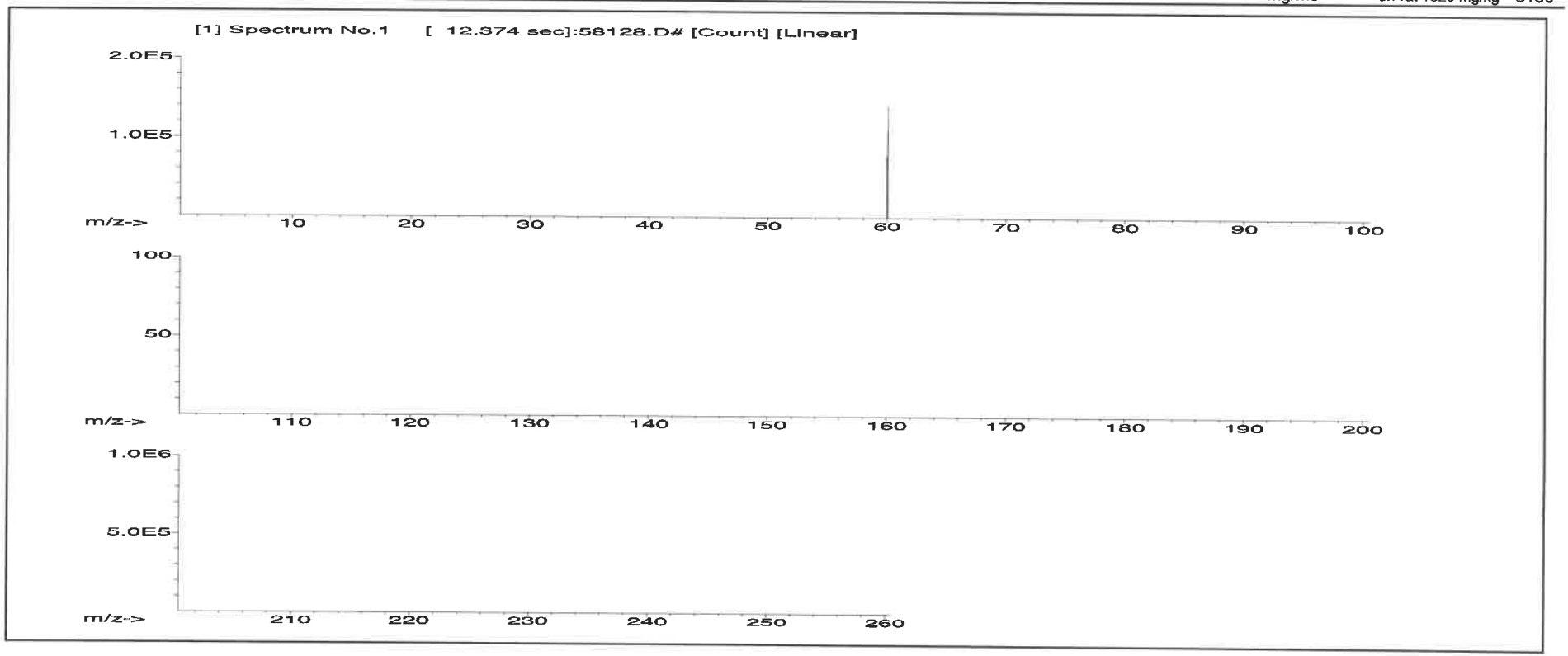
Expiration Date: 041127
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 1000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 249.85

	Lot #		
Solvent:	24002546	Nitric Acid	
2%	5.0 (mL)	Nitric Acid	

5E-05 Balance Uncertainty
0.002 Flask Uncertainty

Formulated By:	Brian Geddes	041124
Reviewed By:	Pedro L. Rentas	041124

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. Nickel(II) nitrate hexahydrate (Ni)	IN033	NIM052023A1	1000	99.999	0.10	20.2	1.2369	1.2369	**1000.0**	**2.0**	13478-00-7	1 mg/m3	orl-rat 1620 mg/kg	3136



969

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	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).

697

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

M5962 R! 06/14/24

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

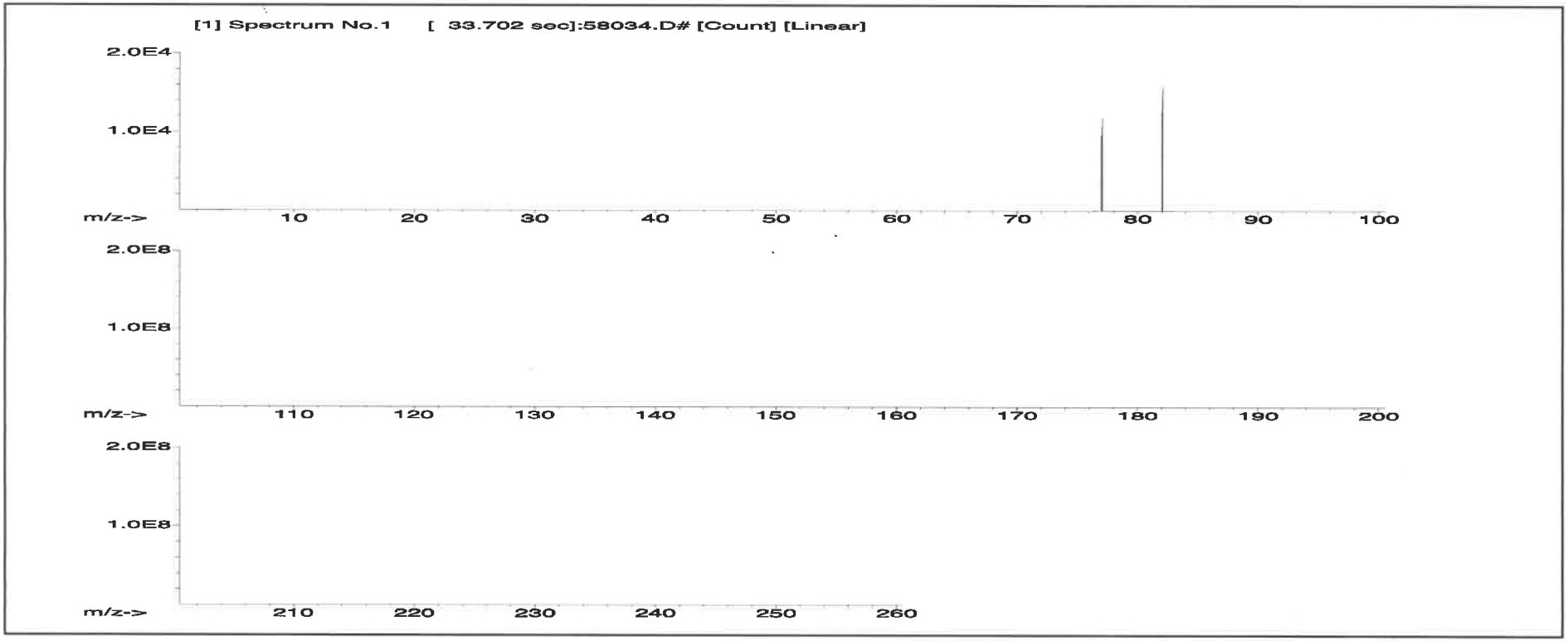
869

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



669

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

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

(T) = Target analyte

Physical Characterization:

Certified by:

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

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

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

M5970, M5971 R: 7/01/24

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

CERTIFIED WEIGHT REPORT:

Part Number: 57003
Lot Number: 062124
Description: Lithium (Li)
Expiration Date: 062127
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 1000
NIST Test Number: 6UTB
Volume shown below was diluted to (mL): 250.11

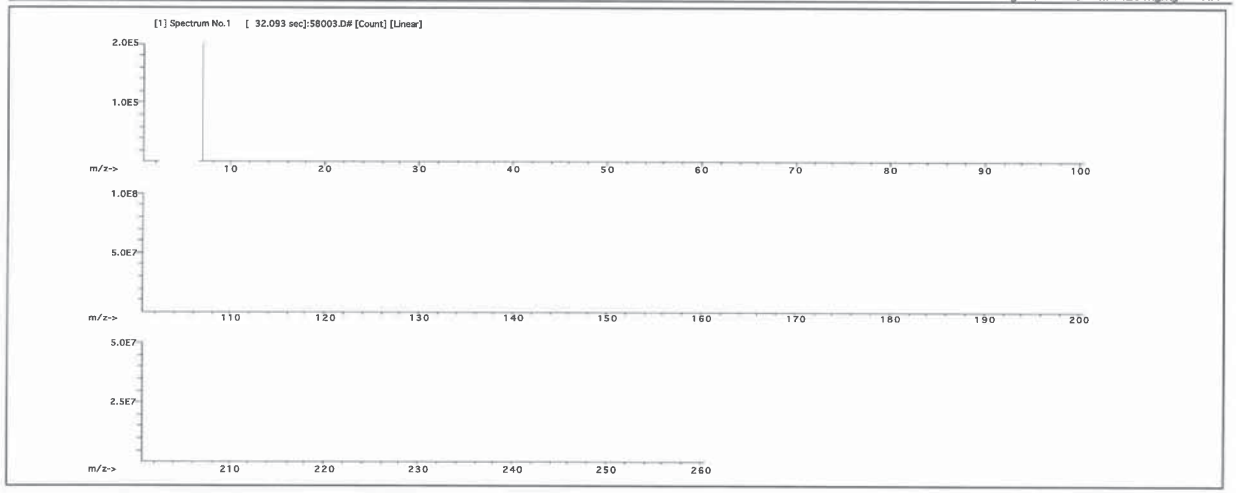
Lot #	Solvent:		
24002546	Nitric Acid		
2.0%	5.0 (mL)	Nitric Acid	

5E-05 Balance Uncertainty
0.016 Flask Uncertainty

Giovanni Esposito
Formulated By: Giovanni Esposito 062124

Pedro Rentas
Reviewed By: Pedro L. Rentas 062124

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Lithium nitrate (Li)	58103	070622	0.1000	25.0	0.004	1000	10000.4	**1000.0**	**2.0**	7790-69-4	5 mg/m3	orl-rat 1426 mg/kg	NA



Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

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

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

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

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

(T) = Target analyte

Physical Characterization:

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

Certified by:

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

INORGANIC VENTURES
Refine your results. Redefine your industry.

Certificate of Analysis

M5976, M5977
R: 02/22/24

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:	Single Analyte Custom Grade Solution
Catalog Number:	CGMO1
Lot Number:	T2-MO720876
Matrix:	H2O tr. NH4OH
Value / Analyte(s):	1 000 µg/mL ea: Molybdenum
Starting Material:	Ammonium Molybdate
Starting Material Lot#:	2361
Starting Material Purity:	99.9893%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 998 ± 7 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 3134 Lot Number: 130418

- 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	<	0.000590	M	Eu	<	0.000300	M	Na		0.000879	M	Se	<	0.008000	M	Zn		0.000598
M	Al		0.000563	M	Fe	<	0.006500	M	Nb	<	0.029000	i	Si	<		M	Zr	<	0.001800
M	As	<	0.002100	M	Ga	<	0.000300	i	Nd	<		M	Sm	<	0.000300				
M	Au	<	0.000300	M	Gd	<	0.000300	M	Ni	<	0.008000	M	Sn	<	0.008900				
M	B	<	0.003300	M	Ge	<	0.000300	M	Os	<	0.000590	M	Sr		0.000175				
M	Ba		0.001689	M	Hf	<	0.001800	i	P	<		M	Ta	<	0.004200				
M	Be	<	0.000890	M	Hg	<	0.003300	M	Pb	<	0.000300	M	Tb	<	0.000300				
M	Bi	<	0.000890	M	Ho	<	0.000300	M	Pd	<	0.001800	M	Te	<	0.021000				
O	Ca		0.006334	M	In	<	0.032000	M	Pr	<	0.013000	M	Th	<	0.000300				
O	Cd	<	0.026000	M	Ir	<	0.000300	M	Pt	<	0.000300	O	Tl	<	0.032000				
M	Ce	<	0.008300	M	K		0.130213	M	Rb		0.004575	M	Tl		0.001266				
M	Co		0.000598	M	La	<	0.000300	M	Re	<	0.000300	M	Tm	<	0.000300				
M	Cr		0.000527	O	Li		0.000059	M	Rh	<	0.000300	M	U	<	0.005300				
M	Cs		0.000527	M	Lu	<	0.000300	M	Ru	<	0.079000	M	V	<	0.000890				
M	Cu		0.002252	M	Mg		0.000563	i	S	<		M	W		0.087982				
M	Dy	<	0.000300	M	Mn	<	0.005900	M	Sb		0.001513	M	Y	<	0.000300				
M	Er	<	0.000300	s	Mo	<		M	Sc	<	0.001200	M	Yb	<	0.000300				

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 - 95.94 +6 6,7,8,9 [MoO4]-2(chemical form as received)

Chemical Compatibility -Mo is received in a NH4OH matrix giving the operator the option of using HCl or HF to stabilize acidic solutions. The [MoO4]-2 is soluble in concentrated HCl [MoOCl5]-2, dilute HF / HNO3 [MoOF5]-2 and basic media [MoO4]-2. Stable at ppm levels with some metals provided it is fluorinated. Do not mix with Alkaline or Rare Earths when HF is present. Stable with most inorganic anions provided it is in the [MoO4]-2 chemical form.

Stability - 2-100 ppb levels stable (alone or mixed with all other metals that are at comparable levels) as the [MoOF5]-2 for months in 1% HNO3 / LDPE container. 1-10,000 ppm single element solutions as the [MoO4]-2 chemically stable for years in 1% NH4OH in a LDPE container.

Mo Containing Samples (Preparation and Solution) -Metal (Soluble in HF / HNO3 or hot dilute HCl); Oxide (soluble in HF or NH4OH) ; Organic Matrices (Dry ash at 450EC in Pt0 and dissolve oxide with HF or 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 95 amu	3 ppt	n/a	40Ar39K16O,79Br1 6O,190Os2+,190Pt 2+
ICP-OES 202.030 nm	0.008 / 0.0002 µg/mL	1	Os, Hf
ICP-OES 203.844 nm	0.012 / 0.002 µg/mL	1	
ICP-OES 204.598 nm	0.012 / 0.001 µg/mL	1	Ir, Ta

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

July 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

- July 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 Prepared By:

Uyen Truong
Supervisor, Product Documentation

Certificate Approved By:

Michael Booth
Director, Technical

Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

M5978, M5979

INORGANIC VENTURES™
Refine your results. Redefine your industry.

Certificate of Analysis

300 Technology Drive
Christiansburg, VA 24073 USA
inorganicventures.com

R: 2/22/24

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:

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

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$
w_i = the weighting factors for each method calculated using the inverse square of the variance

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

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\ (u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma(w_i)^2\ (u_{char\ i})^2]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

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

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

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

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

X_a = mean of Assay Method A with
$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\ (u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

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

u_{bb} = bottle to bottle homogeneity standard uncertainty

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

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

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

4.1 Thermometer Calibration

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

4.2 Balance Calibration

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

4.3 Glassware Calibration

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

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

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

M	Ag	<	0.000536	M	Eu	<	0.000268	O	Na	<	0.032670	M	Se		0.001204	O	Zn	<	0.003267
O	Al		0.000872	O	Fe		0.003225	O	Nb	<	0.043560	O	Si		0.004735	O	Zr	<	0.043560
M	As	<	0.008586	M	Ga	<	0.000268	M	Nd	<	0.000268	M	Sm	<	0.000268				
M	Au	<	0.004577	M	Gd	<	0.000268	O	Ni	<	0.010890	M	Sn		0.000096				
O	B	<	0.008929	M	Ge	<	0.002146	M	Os	<	0.000269	O	Sr		0.000096				
M	Ba	<	0.002683	M	Hf		0.002161	O	P	<	0.054450	M	Ta		0.010560				
M	Be	<	0.005366	M	Hg	<	0.003231	M	Pb	<	0.001073	M	Tb	<	0.000268				
M	Bi	<	0.001609	M	Ho	<	0.000268	M	Pd	<	0.000268	M	Te	<	0.001341				
O	Ca		0.000676	M	In	<	0.002683	M	Pr	<	0.000268	M	Th	<	0.053663				
M	Cd	<	0.000268	M	Ir	<	0.000269	M	Pt	<	0.000536	s	Ti	<					
M	Ce	<	0.000268	M	K		0.001172	M	Rb	<	0.000268	M	Tl	<	0.000268				
M	Co	<	0.004293	M	La	<	0.000268	M	Re	<	0.000268	M	Tm	<	0.000268				
M	Cr		0.000752	O	Li	<	0.027225	M	Rh	<	0.000268	M	U	<	0.000268				
M	Cs	<	0.000268	M	Lu	<	0.000268	M	Ru	<	0.000269	M	V	<	0.019855				
O	Cu	<	0.010890	O	Mg	<	0.005445	i	S	<		M	W		0.000473				
M	Dy	<	0.000268	O	Mn	<	0.003267	M	Sb	<	0.006976	M	Y	<	0.002146				
M	Er	<	0.000268	M	Mo		0.000774	O	Sc	<	0.004900	M	Yb	<	0.000536				

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

6.0 INTENDED USE

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

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

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

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

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

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

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 47.87 +4 6 Ti(F)6-2

Chemical Compatibility - Soluble in concentrated HCl, HF, H3PO4 H2SO4 and HNO3. Avoid neutral to basic media. Unstable at ppm levels with metals that would pull F- away (i.e. Do not mix with Alkaline or Rare Earths or high levels of transition elements unless they are fluorinated). Stable with most inorganic anions with a tendency to hydrolyze forming the hydrated oxide in all dilute acids except HF.

Stability - 2-100 ppb levels stable (Alone or mixed with all other metals) as the Ti(F)6-2 for months in 1% HNO3 / LDPE container. 1-10,000 ppm single element solutions as the Ti(F)6-2 chemically stable for years in 2-5% HNO3 / trace HF in an LDPE container.

Ti Containing Samples (Preparation and Solution) - Metal (Soluble in H2O / HF caution -powder reacts violently); Oxide - low temperature history anatase or rutile (Dissolved by heating in 1:1:1 H2O / HF / H2SO4); Oxide - high temperature history (~800EC) brookite (fuse in Pt0 with K2S2O7); Ores (fuse in Pt0 with KF + K2S2O7 - no KF if silica not present); Organic Matrices (Dry ash at 450EC in Pt0 and dissolve by heating with 1:1:1 H2O / HF / H2SO4 or fuse ash with pyrosulfate if oxide is as plastic pigment and likely in brookite crystalline form).

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

Technique/Line	Estimated D.L.	Order	Interferences (underlined indicates severe)
ICP-MS 48 amu	14 ppt	N/A	32S16O, 32S14N, 14N16O18O, 14N17N2, 36Ar12C, 48Ca, [96X=2 (where X = Zr, Mo, Ru)]
ICP-OES 323.452 nm	0.0054 / 0.00092 µg/mL	1	Ce, Ar, Ni
ICP-OES 334.941 nm	0.0038 / 0.000028 µg/mL	1	Nb, Ta, Cr, U
ICP-OES 336.121 nm	0.0053 / 0.000034 µg/mL	1	W, Mo, Co

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

8.0 HAZARDOUS INFORMATION

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

9.0 HOMOGENEITY

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

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

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

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

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

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

June 17, 2022

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

11.2 Lot Expiration Date

- June 17, 2027

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

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

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

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

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Thomas Kozikowski
Manager, Quality Control

Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

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

45982 R: 6/11/24

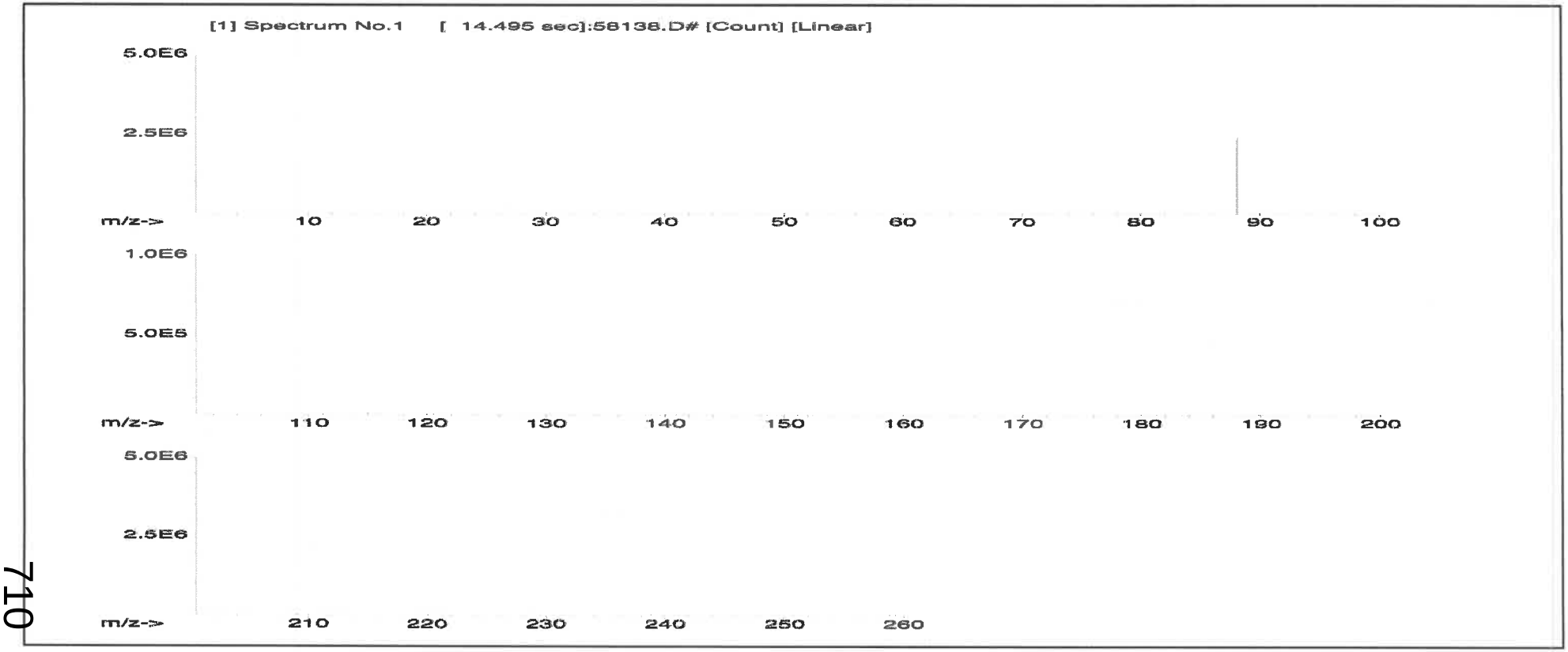
CERTIFIED WEIGHT REPORT:

Part Number: 57038
Lot Number: 031524
Description: Strontium (Sr)
Expiration Date: 031527
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 1000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 2000.07

	Lot #		
Solvent:	24002546	Nitric Acid	
2%	40.0 (mL)	Nitric Acid	
	5E-05	Balance Uncertainty	
	0.100	Flask Uncertainty	

Formulated By:	Benson Chan	031524
Reviewed By:	Pedro L. Rentas	031524

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	4.85502	**1000.1**	**2.0**	10042-76-9	NA	orl-rat >2000mg/kg	3153a



710

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).

711

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

MS985
R: 6/14/24

1.0 ACCREDITATION / REGISTRATION

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

ACCREDITED Testing Laboratory Certificate 863.01
ACCREDITED Reference Material Producer Certificate 863.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGIN10
Lot Number:	U2-IN729349
Matrix:	5% (v/v) HNO3
Value / Analyte(s):	10 000 µg/mL ea: Indium
Starting Material:	Indium Metal
Starting Material Lot#:	2511
Starting Material Purity:	99.9995%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10022 ± 30 µg/mL

Density: 1.044 g/mL (measured at 20 ± 4 °C)

Assay Information:

Assay Method #1	**10021 ± 56 µg/mL** ICP Assay NIST SRM 3124a Lot Number: 110516
Assay Method #2	**10035 ± 25 µg/mL** EDTA NIST SRM 928 Lot Number: 928
Assay Method #3	**10001 ± 33 µg/mL** Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

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

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

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

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

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

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\ (u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\ (u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

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

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

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

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

X_a = mean of Assay Method A with

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

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\ (u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

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

u_{bb} = bottle to bottle homogeneity standard uncertainty

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

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

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

4.1 Thermometer Calibration

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

4.2 Balance Calibration

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

4.3 Glassware Calibration

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

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

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

M	Ag	<	0.000760	M	Eu	<	0.000760	O	Na		0.012771	M	Se	<	0.023000	M	Zn	<	0.006100
M	Al		0.003385	O	Fe		0.004462	M	Nb	<	0.000760	O	Si		0.024619	M	Zr	<	0.000760
M	As	<	0.004600	M	Ga	<	0.000760	M	Nd	<	0.000760	M	Sm	<	0.000760				
M	Au	<	0.002300	M	Gd	<	0.000760	O	Ni	<	0.005100	M	Sn	<	0.000760				
O	B		0.003692	M	Ge	<	0.001600	M	Os	<	0.000760	O	Sr	<	0.000610				
M	Ba	<	0.001600	M	Hf	<	0.000760	n	P	<		M	Ta	<	0.000760				
O	Be	<	0.000130	M	Hg	<	0.003100	M	Pb		0.001400	M	Tb	<	0.000760				
M	Bi	<	0.000760	M	Ho	<	0.000760	M	Pd	<	0.001600	M	Te	<	0.000760				
O	Ca		0.004616	s	In	<		M	Pr	<	0.000760	M	Th	<	0.000760				
M	Cd	<	0.000760	M	Ir	<	0.000760	M	Pt	<	0.000760	O	Ti	<	0.001100				
M	Ce	<	0.000760	O	K		0.007078	M	Rb	<	0.000760	M	Tl	<	0.000760				
M	Co	<	0.000760	M	La	<	0.000760	M	Re	<	0.000760	M	Tm	<	0.000760				
O	Cr	<	0.001300	O	Li	<	0.000130	M	Rh	<	0.000760	M	U	<	0.000760				
M	Cs	<	0.000760	M	Lu	<	0.000760	M	Ru	<	0.000760	M	V	<	0.001600				
M	Cu	<	0.003800	O	Mg		0.000707	n	S	<		M	W	<	0.001600				
M	Dy	<	0.000760	O	Mn		0.000149	M	Sb	<	0.000760	M	Y	<	0.000760				
M	Er	<	0.000760	M	Mo	<	0.002300	M	Sc	<	0.000760	M	Yb	<	0.000760				

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

6.0 INTENDED USE

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

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

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

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

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

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

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

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 114.82 +3 6 In(H2O)6+3

Chemical Compatibility -Soluble in HCl, HNO3, and H2SO4. Avoid neutral and basic media. Stable with most metals and inorganic anions. The oxalate, sulfide, carbonate, hydroxide and phosphate are insoluble in water.

Stability - 2-100 ppb levels stable for months in 1% HNO3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 2-5% HNO3 / LDPE container.

In Containing Samples (Preparation and Solution) -Metal (Best dissolved in HCl / HNO3); Oxide (Soluble in mineral acids); Ores (Carbonate fusion in Pt0 followed by HCl dissolution); Organic Matrices (Sulfuric/peroxide digestion or dry ash and dissolution in dilute HCl).

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

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 115 amu	1 ppt	n/a	115Sn, 99Ru16O
ICP-OES 158.583 nm	0.05 / 0.002 µg/mL	1	
ICP-OES 230.606 nm	0.1 / 0.03 µg/mL	1	Ni, Os
ICP-OES 325.609 nm	0.2 / 0.05 µg/mL	1	Mn, Mo, Th

8.0 HAZARDOUS INFORMATION

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

9.0 HOMOGENEITY

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

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

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

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

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

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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: 2/22/2024
M5999

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-SPK-1
Lot Number:	T2-MEB721963
Matrix:	7% (v/v) HNO3
Value / Analyte(s):	2 000 µg/mL ea: Aluminum, Barium, 1 000 µg/mL ea: Iron, 500 µg/mL ea: Manganese, Nickel, Vanadium, Zinc, Cobalt, 250 µg/mL ea: Copper, 200 µg/mL ea: Chromium, 50 µg/mL ea: Beryllium, Silver

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
Aluminum, Al	2 000 ± 7 µg/mL	Barium, Ba	2 000 ± 9 µg/mL
Beryllium, Be	50.00 ± 0.26 µg/mL	Chromium, Cr	200.0 ± 1.1 µg/mL
Cobalt, Co	500.0 ± 2.4 µg/mL	Copper, Cu	250.0 ± 1.0 µg/mL
Iron, Fe	1 000 ± 4 µg/mL	Manganese, Mn	500.0 ± 2.0 µg/mL
Nickel, Ni	500.0 ± 2.2 µg/mL	Silver, Ag	50.00 ± 0.22 µg/mL
Vanadium, V	500.0 ± 2.2 µg/mL	Zinc, Zn	500.0 ± 2.2 µg/mL

Density: 1.070 g/mL (measured at 20 ± 4 °C)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
Ag	ICP Assay	3151	160729
Ag	Volhard	999c	999c
Ag	Calculated		See Sec. 4.2
Al	ICP Assay	3101a	140903
Al	EDTA	928	928
Ba	ICP Assay	3104a	140909
Ba	Gravimetric		See Sec. 4.2
Be	ICP Assay	3105a	090514
Be	Calculated		See Sec. 4.2
Co	ICP Assay	3113	190630
Co	EDTA	928	928
Cr	ICP Assay	3112a	170630
Cu	ICP Assay	3114	121207
Cu	EDTA	928	928
Fe	ICP Assay	3126a	140812
Fe	EDTA	928	928
Mn	ICP Assay	3132	050429
Mn	EDTA	928	928
Ni	ICP Assay	3136	120619
Ni	EDTA	928	928
V	IC Assay	3165	160906
V	EDTA	928	928
Zn	ICP Assay	3168a	120629
Zn	EDTA	928	928

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

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

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

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

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

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

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

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

u_{bb} = bottle to bottle homogeneity standard uncertainty

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

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

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

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

X_a = mean of Assay Method A with

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

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

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

u_{bb} = bottle to bottle homogeneity standard uncertainty

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

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

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

4.1 Thermometer Calibration

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

4.2 Balance Calibration

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

4.3 Glassware Calibration

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

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

N/A

6.0 INTENDED USE

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

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

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

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

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

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

Note: This solution contains Silver (Ag), please refer to our Sample Preparation Guide for more information.

https://www.inorganicventures.com/sample-preparation-guide/samples-containing-silver

8.0 HAZARDOUS INFORMATION

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

9.0 HOMOGENEITY

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

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

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

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

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

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

July 27, 2022

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

11.2 Lot Expiration Date

- July 27, 2027

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

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

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

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

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Thomas Kozikowski
Manager, Quality Control

Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

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

avantor™ | J.T.Baker®

R → 10/13/24
Met dig

M 6121

Material No.: 9530-33
Batch No.: 0000275677
Manufactured Date: 2020/12/16
Retest Date: 2025/12/15
Revision No: 1

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
ACS - Specific Gravity at 60°/60°F	1.185 - 1.192	1.190
ACS - Bromide (Br)	<= 0.005 %	< 0.005
ACS - Extractable Organic Substances	<= 5 ppm	1
ACS - Free Chlorine (as Cl_2)	<= 0.5 ppm	< 0.5
Phosphate (PO_4)	<= 0.05 ppm	< 0.03
Sulfate (SO_4)	<= 0.5 ppm	< 0.3
Sulfite (SO_3)	<= 0.8 ppm	0.3
Ammonium (NH_4)	<= 3 ppm	< 1
Trace Impurities - Arsenic (As)	<= 0.010 ppm	< 0.003
Trace Impurities - Aluminum (Al)	<= 10.0 ppb	< 0.2
Arsenic and Antimony (as As)	<= 5 ppb	< 3
Trace Impurities - Barium (Ba)	<= 1.0 ppb	< 0.2
Trace Impurities - Beryllium (Be)	<= 1.0 ppb	< 0.2
Trace Impurities - Bismuth (Bi)	<= 10.0 ppb	< 1.0
Trace Impurities - Boron (B)	<= 20.0 ppb	< 5.0
Trace Impurities - Cadmium (Cd)	<= 1.0 ppb	< 0.3
Trace Impurities - Calcium (Ca)	<= 50.0 ppb	29.7
Trace Impurities - Chromium (Cr)	<= 1.0 ppb	< 0.4
Trace Impurities - Cobalt (Co)	<= 1.0 ppb	< 0.3
Trace Impurities - Copper (Cu)	<= 1.0 ppb	< 0.1
Trace Impurities - Gallium (Ga)	<= 1.0 ppb	< 0.2

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone: 610.386.1700

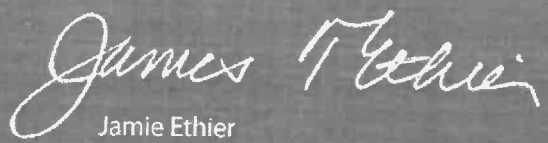
720

Material No.: 9530-33
Batch No.: 0000275677

Test	Specification	Result
Trace Impurities - Germanium (Ge)	<= 3.0 ppb	< 2.0
Trace Impurities - Gold (Au)	<= 4.0 ppb	< 0.2
Heavy Metals (as Pb)	<= 100 ppb	< 50
Trace Impurities - Iron (Fe)	<= 15.0 ppb	<1
Trace Impurities - Lead (Pb)	<= 1.0 ppb	< 0.5
Trace Impurities - Lithium (Li)	<= 1.0 ppb	0.2
Trace Impurities - Magnesium (Mg)	<= 10.0 ppb	0.4
Trace Impurities - Manganese (Mn)	<= 1.0 ppb	< 0.4
Trace Impurities - Mercury (Hg)	<= 0.5 ppb	0.1
Trace Impurities - Molybdenum (Mo)	<= 10.0 ppb	< 5.0
Trace Impurities - Nickel (Ni)	<= 4.0 ppb	< 0.3
Trace Impurities - Niobium (Nb)	<= 1.0 ppb	< 0.2
Trace Impurities - Potassium (K)	<= 9.0 ppb	< 2.0
Trace Impurities - Selenium (Se), For Information Only	ppb	1.0
Trace Impurities - Silicon (Si)	<= 100.0 ppb	< 10.0
Trace Impurities - Silver (Ag)	<= 1.0 ppb	< 0.3
Trace Impurities - Sodium (Na)	<= 100.0 ppb	< 5.0
Trace Impurities - Strontium (Sr)	<= 1.0 ppb	< 0.2
Trace Impurities - Tantalum (Ta)	<= 1.0 ppb	< 0.9
Trace Impurities - Thallium (Tl)	<= 5.0 ppb	< 2.0
Trace Impurities - Tin (Sn)	<= 5.0 ppb	< 0.8
Trace Impurities - Titanium (Ti)	<= 1.0 ppb	0.2
Trace Impurities - Vanadium (V)	<= 1.0 ppb	< 0.2
Trace Impurities - Zinc (Zn)	<= 5.0 ppb	0.3
Trace Impurities - Zirconium (Zr)	<= 1.0 ppb	< 0.1

For Laboratory, Research or Manufacturing Use
Product Information (not specifications):
Appearance (clear, fuming liquid)
Meets ACS Specifications

Country of Origin: US
Packaging Site: Phillipsburg Mfg Ctr & DC



Jamie Ethier
Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone: 610.386.1700

M6125 Receive -> 11/22/24

CORCO CHEMICAL CORPORATION

Manufacturers of ACS Reagents and Semiconductor Grade Chemicals

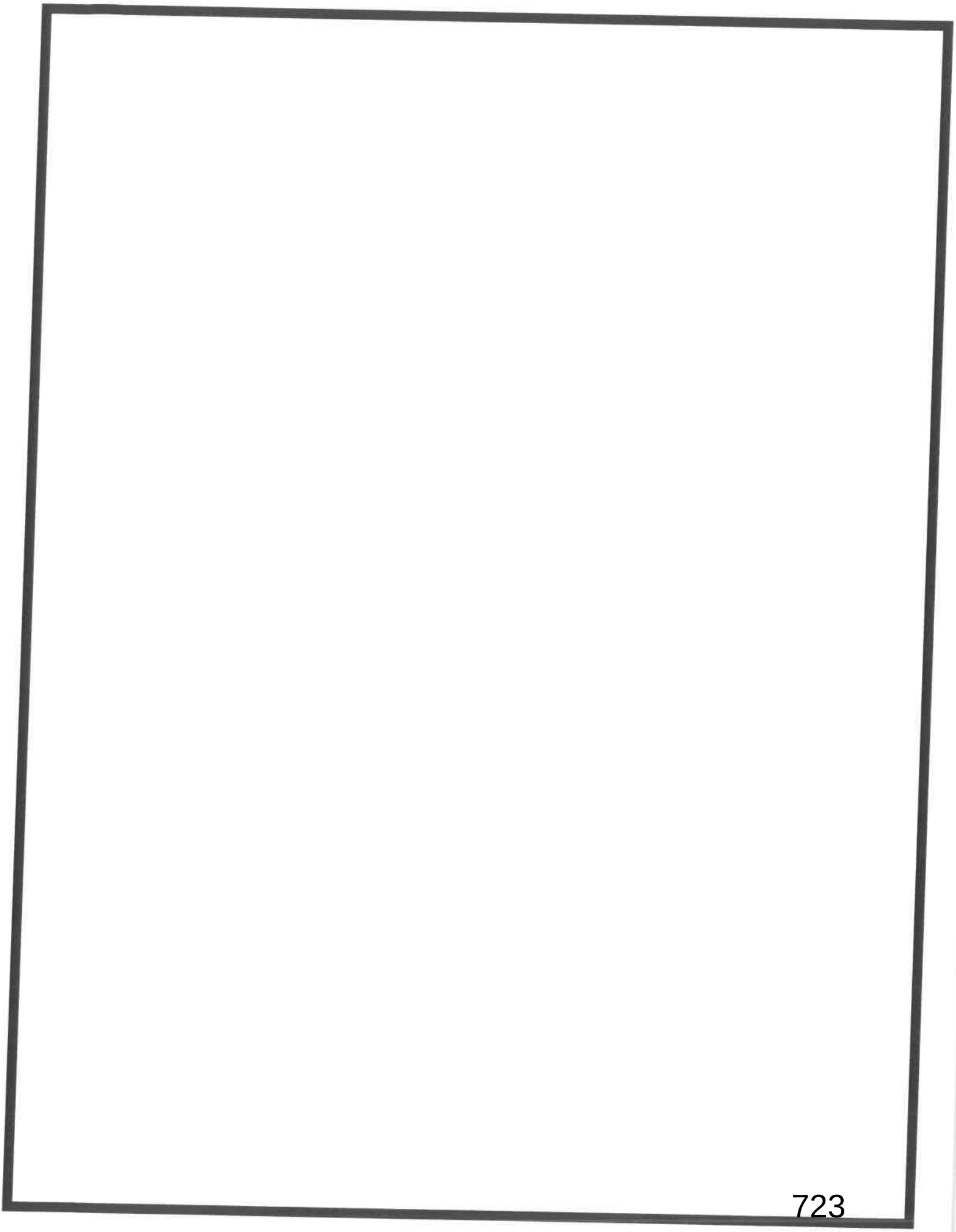
Office and Plant
299 Cedar Lane
Fairless Hills, PA 19030

Phone: 215-295-5006
Fax: 215-295-0781

Hydrogen Peroxide 30%, ACS

Reagent Grade

SPECIFICATION	MAXIMUM LIMITS
Appearance	Colorless and free from suspended matter or sediment
Assay	29-32%
Color (APHA)	10
Residue after Evaporation	0.002%
Titratable Acid	0.0006 meq/g
Chloride (Cl)	3 ppm
Nitrate (NO_3)	2 ppm
Phosphate	2 ppm
Sulfate (SO_4)	5 ppm
Ammonium (NH_4)	5 ppm
Heavy Metals (as Pb)	1 ppm
Iron (Fe)	0.5 ppm



Nitric Acid 69%
CMOS

avantor™ | J.T.Baker®

R -> 11/12/24

M6126

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

For Microelectronic Use

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

Jamie Croak
Director Quality Operations, Bioscience Production

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

R: 01/03/24 M5806, M5807

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

726

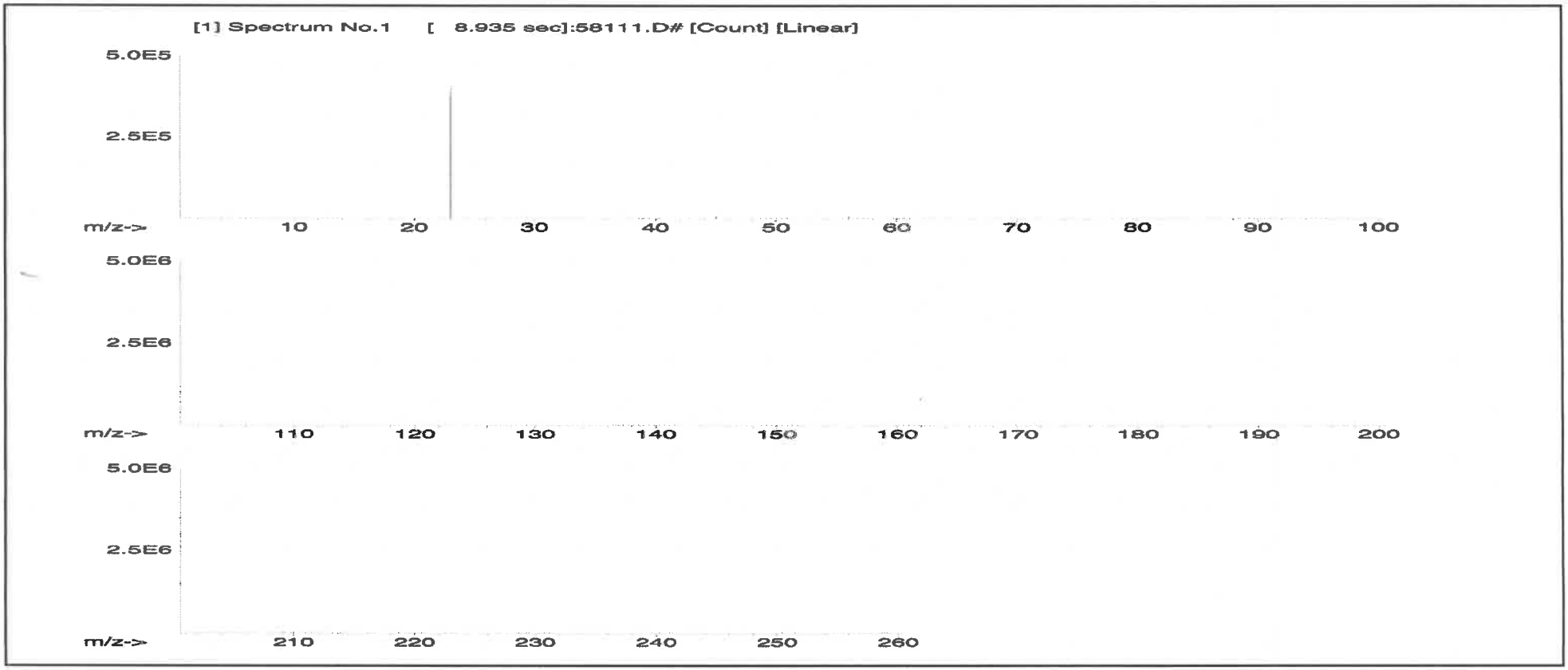
CERTIFIED WEIGHT REPORT:

Part Number:	**58111**		**Lot #**		
Lot Number:	**122223**	**Solvent:**	24002546	Nitric Acid	
Description:	**Sodium (Na)**	2%	60.0 (mL)	Nitric Acid	
Expiration Date:	122226				
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):	3000.4	0.06	Flask Uncertainty		

Aleah O'Brady

Formulated By:	Aleah O'Brady	122223
Reviewed By:	Pedro L. Rentas	122223

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	111.5406	111.5479	**10000.7**	**20.0**	7631-99-4	5 mg/m3	orl-rat 3430 mg/kg	3152a



727

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	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:

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

Certified by:

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

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

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

R: 01/03/24 M5802, M5803

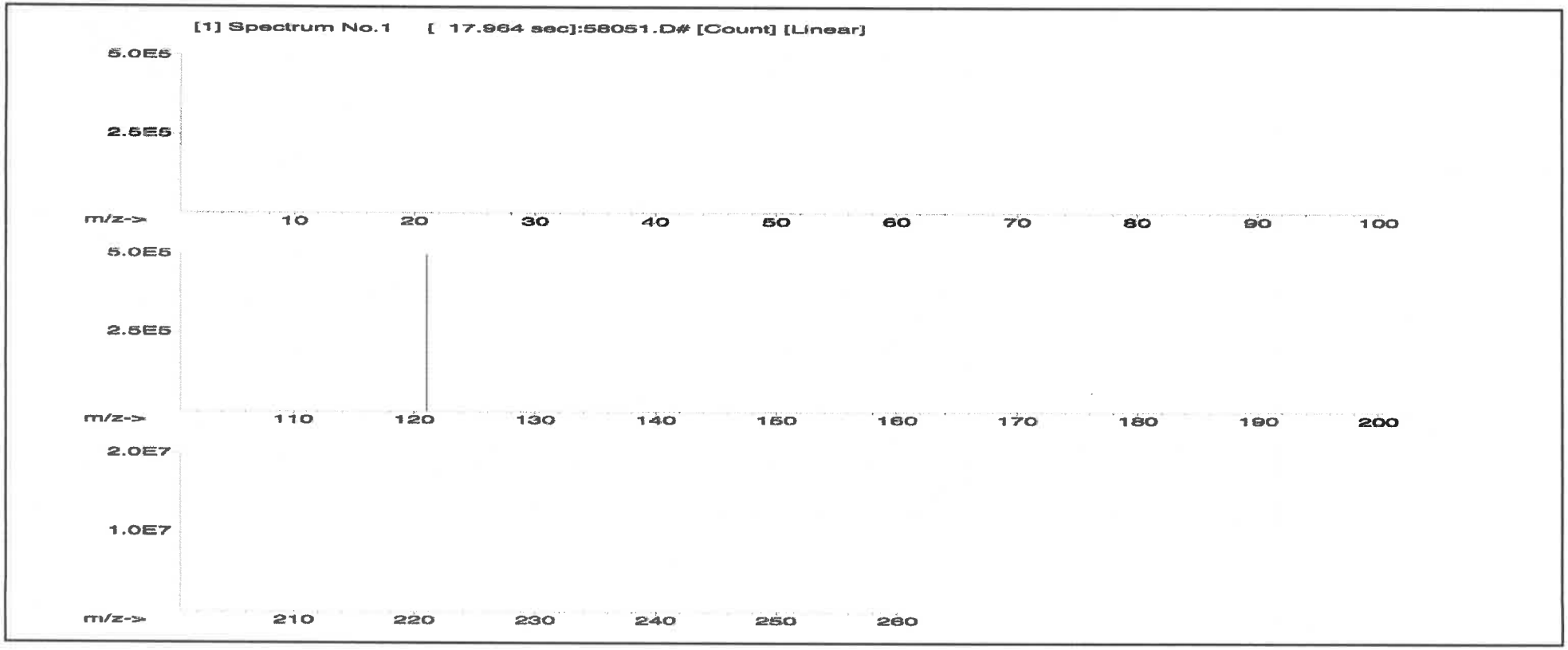
728

CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:	
Part Number:	**57051**	24002546	Nitric Acid	
Lot Number:	**120523**			
Description:	**Antimony (Sb)**			
		2.0%	60.0 (mL)	Nitric Acid
Expiration Date:	120526			
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):	3000.41	0.058	Flask Uncertainty	

Formulated By:	Lawrence Barry	120523
Reviewed By:	Pedro L. Rentas	120523

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	100923	0.1000	300.0	0.084	1000	10001.4	**1000.0**	2.1	7440-36-0	0.5 mg/m3	orl-rat 7000 mg/kg	3102a



729

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).

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

M6030

R: 8/5/24

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

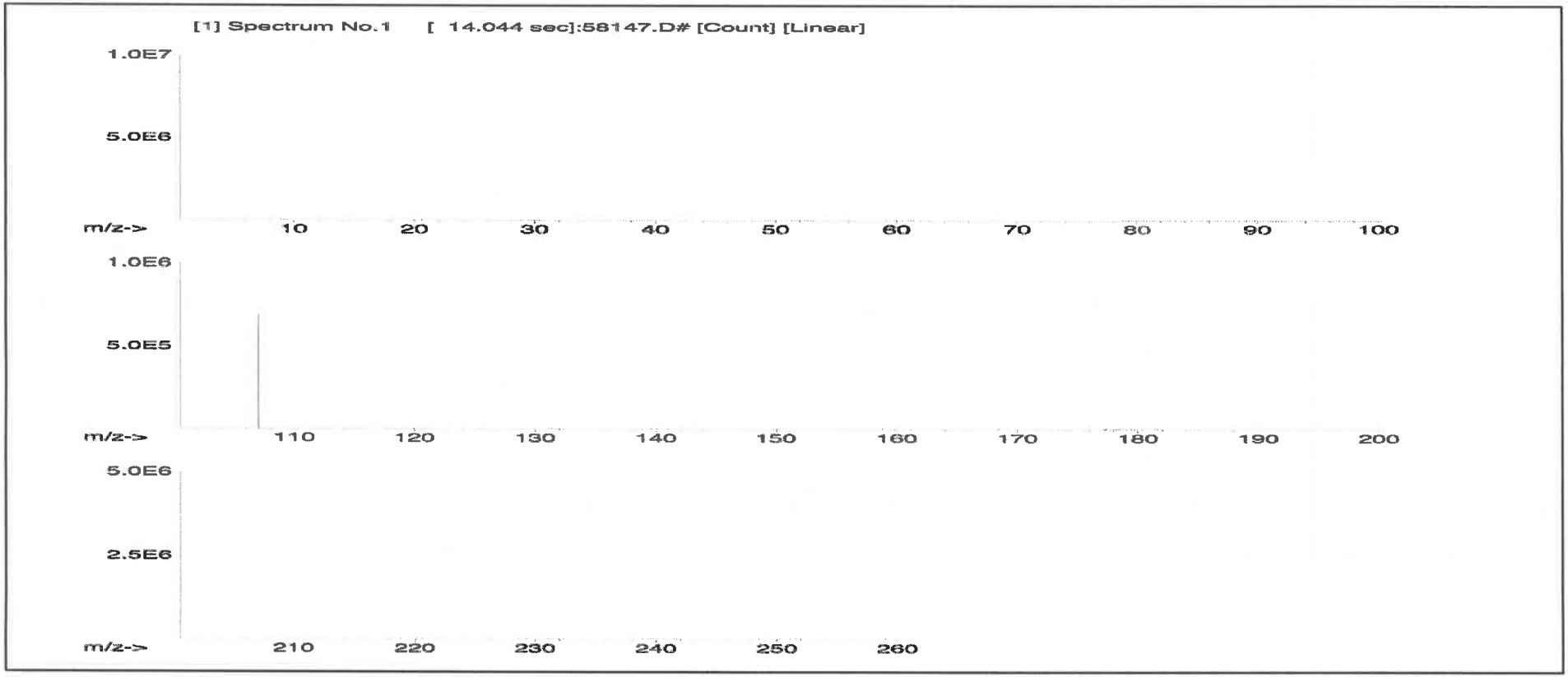
730

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



731

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

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

(T)= Target analyte

Physical Characterization:

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

Certified by:

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

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

R: 03/16/23 M5473, M5474, M5475, M5476

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

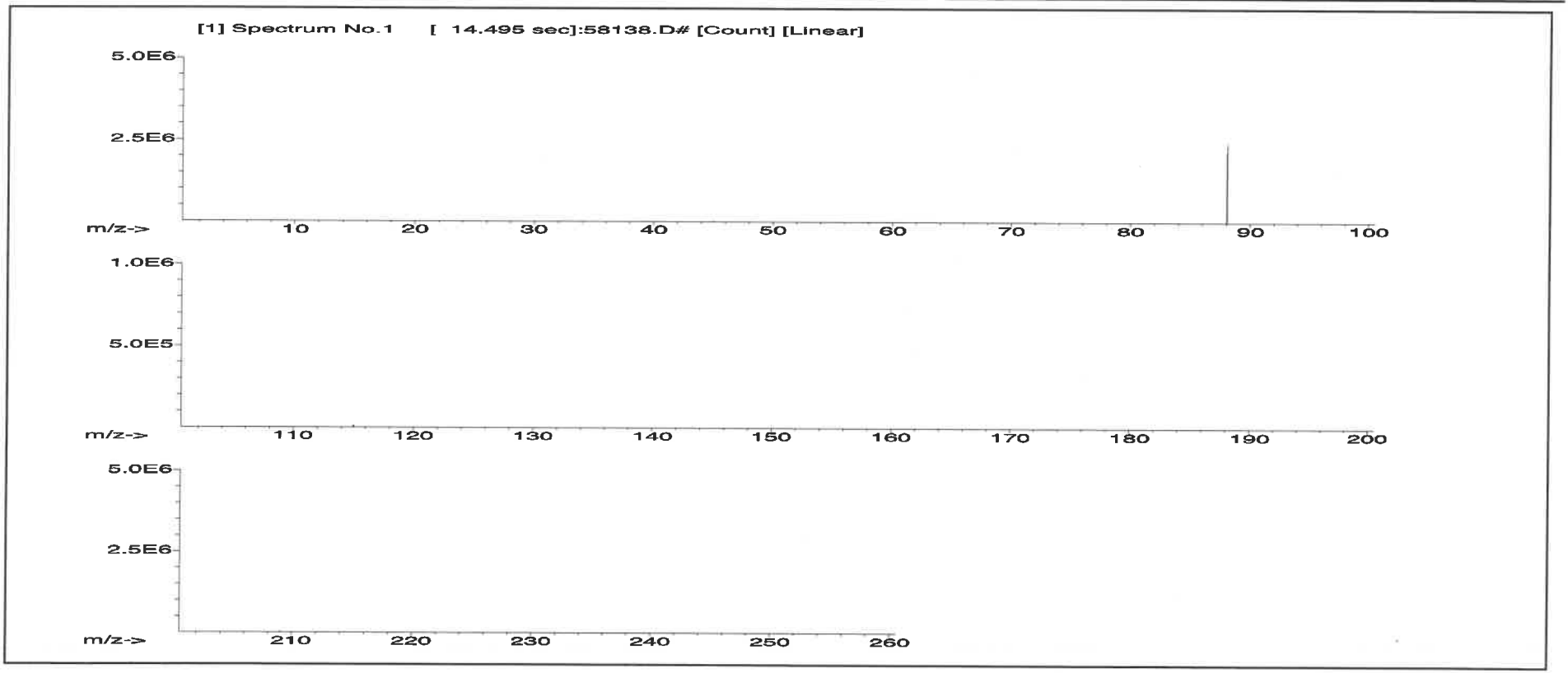
732

CERTIFIED WEIGHT REPORT:

Part Number:	**56138**		**Lot #**		
Lot Number:	**082922**	**Solvent:**	20510011	Nitric Acid	
Description:	**Strontium (Sr)**	2%	20.0 (mL)	Nitric Acid	
Expiration Date:	082925				
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):	1000.12	0.058	Flask Uncertainty		

Formulated By:	Lawrence Barry	082922
Reviewed By:	Pedro L. Rentas	082922

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	10000	99.997	0.10	41.2	24.2756	24.2758	**10000.1**	**20.0**	10042-76-9	NA	orl-rat >2000mg/kg	3153a



733

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	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).

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

R ! 8/5/24

M6023

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

734

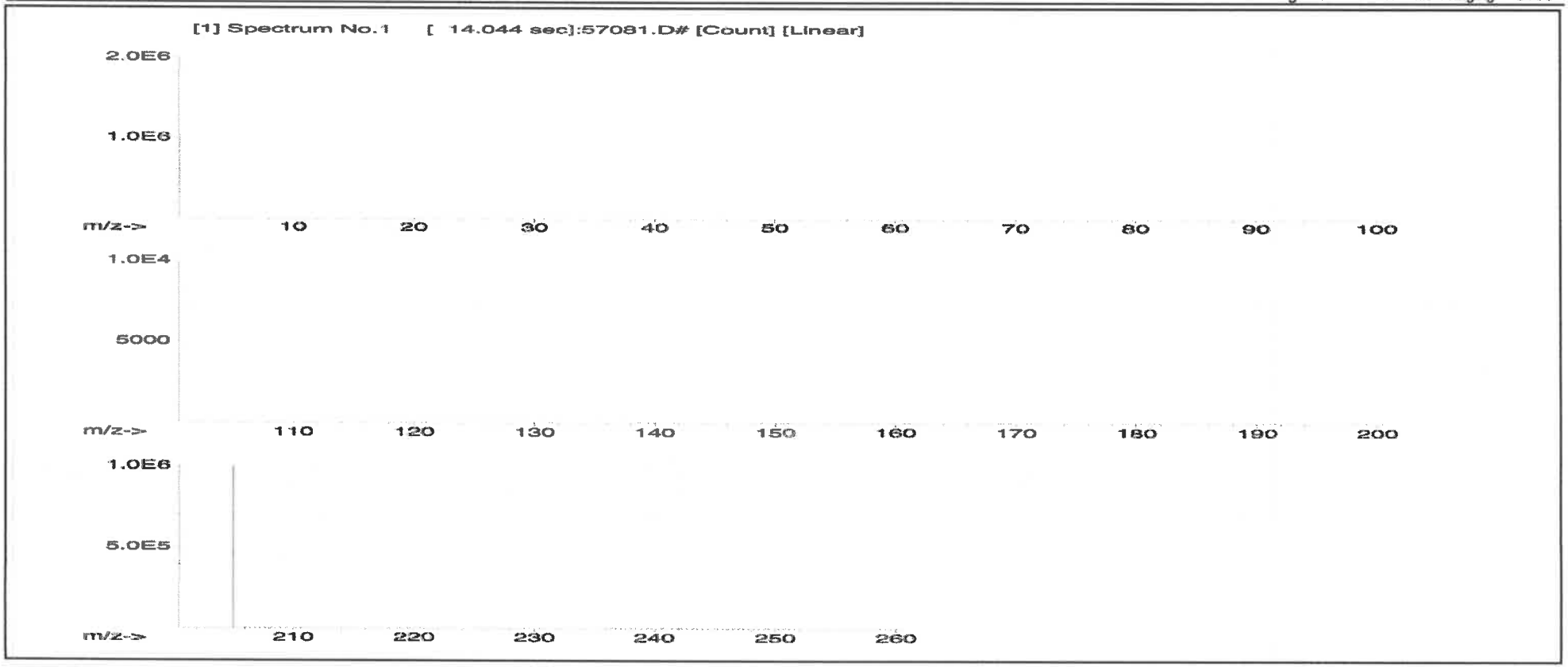
CERTIFIED WEIGHT REPORT:

Part Number:	**57081**		**Lot #**		
Lot Number:	**062724**	**Solvent:**	24002546	Nitric Acid	
Description:	**Thallium (Tl)**	2%	40.0 (mL)	Nitric Acid	
Expiration Date:	062727				
Recommended Storage:	Ambient (20 °C)				
Nominal Concentration (µg/mL):	**1000**				
NIST Test Number:	6UTB	5E-05	Balance Uncertainty		
Weight shown below was diluted to (mL):	2000.1	0.10	Flask Uncertainty		

Aleah O'Brady

Formulated By:	Aleah O'Brady	062724
Reviewed By:	Pedro L. Rentas	062724

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Thallium nitrate (Tl)	IN037	BCCF4399	1000	99.999	0.10	77.0	2.5975	2.5977	**1000.1**	**2.0**	10102-45-1	0.1 mg/m3	orl-mus 15mg/kg	3158



735

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

736

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	

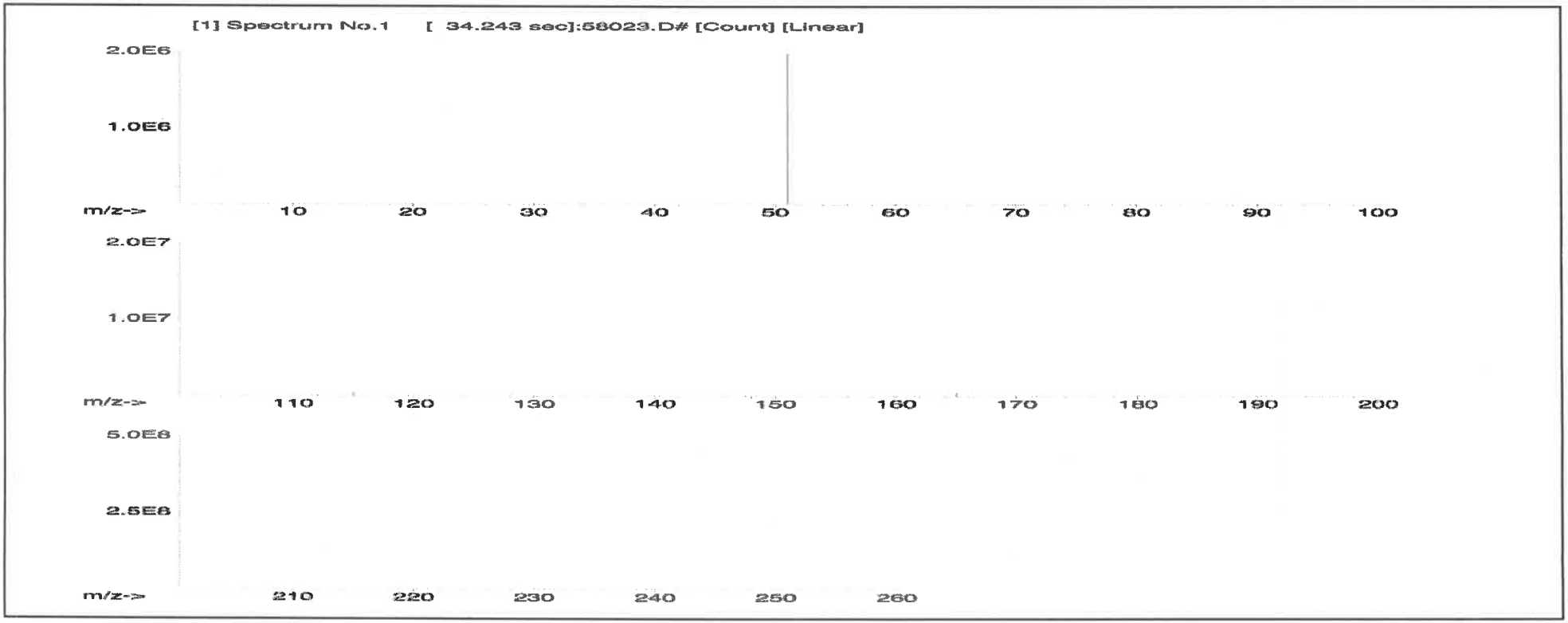
Aleah O'Brady

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



737

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

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

(T) = Target analyte

Physical Characterization:

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

Certified by:

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

Alliance TECHNICAL GROUP

Soil/Sludge Metals Preparation Sheet

PB165841

SOP ID : M3050B-Digestion-20, MSFAM01.1-Trace Metals-2

SDG No : MBHM62

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 #3 2. N/A

Start Digest Date: 12/26/2024 **Time :** 09:10 **Temp :** 96 °C

End Digest Date: 12/26/2024 **Time :** 11:15 **Temp :** 96 °C

Digestion tube ID: M6054

Block thermometer ID: MET-DIG. # 3

Dig Technician Signature: SKD.

Supervisor Signature:

Temp : 1. 96°C 2. N/A

Standared Name	MLS USED	STD REF. # FROM LOG
LCSS	1.00	MP83506
Spike Sol 6	1.00	MP83512
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
1:1 HNO3	10.00	MP83498
Conc. HNO3	5.00	M6126
30% H2O2	3.00	M6125
Conc. HCL	10.00	M6121
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

HOT BLOCK #3 CELL #35 : 96 C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
12/26/24 12:15	SKD. met digestion	[illegible] metals lab
	Preparation Group	Analysis Group

Alliance TECHNICAL GROUP

Soil/Sludge Metals Preparation Sheet

PB165841

Lab Sample ID	Client Sample ID	pH	Initial Weight (g)	Final Vol (ml)	Color Before	Color After	Texture	Artifact	Comment	Prep Pos
P5122-01	MBHM62	N/A	1.24	100	Brown	Yellow	Medium	N/A	N/A	1
P5122-02	MBHM63	N/A	1.20	100	Black	Yellow	Medium	N/A	N/A	2
P5122-03	MBHM64	N/A	1.32	100	Black	Yellow	Medium	N/A	N/A	3
P5122-04	MBHM65	N/A	1.36	100	Black	Yellow	Medium	N/A	N/A	4
P5122-05	MBHM66	N/A	1.32	100	Black	Yellow	Medium	N/A	N/A	5
P5122-06	MBHM67	N/A	1.45	100	Brown	Yellow	Medium	N/A	N/A	6
P5122-07	MBHM68	N/A	1.33	100	Brown	Yellow	Medium	N/A	N/A	7
P5122-08	MBHM69	N/A	1.35	100	Brown	Yellow	Medium	N/A	N/A	8
P5122-09	MBHMC6	N/A	1.34	100	Black	Yellow	Medium	N/A	N/A	9
P5122-10	MBHMC7	N/A	1.25	100	Black	Yellow	Medium	N/A	N/A	10
P5122-11	MBHMC8	N/A	1.33	100	Black	Yellow	Medium	N/A	N/A	11
P5122-12	MBHMC9	N/A	1.36	100	Black	Yellow	Medium	N/A	N/A	12
P5122-13	MBHMC9D	N/A	1.45	100	Black	Yellow	Medium	N/A	N/A	13
P5122-14	MBHMC9S	N/A	1.30	100	Black	Yellow	Medium	N/A	MP83512	14
P5122-15	MBHMD0	N/A	1.38	100	Black	Yellow	Medium	N/A	N/A	15
P5122-16	MBHMD1	N/A	1.48	100	Black	Yellow	Medium	N/A	N/A	16
P5122-17	MBHMD2	N/A	1.18	100	Black	Yellow	Medium	N/A	N/A	17
P5122-18	MBHMD3	N/A	1.38	100	Black	Yellow	Medium	N/A	N/A	18
P5122-19	MBHMD4	N/A	1.21	100	Black	Yellow	Medium	N/A	N/A	19
PB165841BL	PBS841	N/A	1.00	100	Colorless	Colorless	Fine	N/A	N/A	20
PB165841BS	LCS841	N/A	1.00	100	Colorless	Colorless	Fine	N/A	MP83506	21

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

Instrument ID: P5

Daily Analysis Runlog For Sequence/QCBatch ID # LB134162

Review By	Sarabjit Jaswal	Review On	1/6/2025 10:45:01 AM
Supervise By	Mohan Bera	Supervise On	1/6/2025 10:45:56 AM

STD. NAME	STD REF.#
ICAL Standard	MP83500,MP83507,MP83505,MP83504,MP83503,MP83502,MP83501
ICV Standard	MP83508
CCV Standard	MP83511
ICSA Standard	MP83509,MP83510
CRI Standard	MP83728,M5697,MP83726,MP83745
LCS Standard	
Chk Standard	MP83513,MP83514

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	S0	S0	CAL1	01/05/25 16:31		Kareem	OK
2	S1	S01	CAL2	01/05/25 16:35		Kareem	OK
3	S2	S02	CAL3	01/05/25 16:39		Kareem	OK
4	S3	S03	CAL4	01/05/25 16:43		Kareem	OK
5	S4	S04	CAL5	01/05/25 16:46		Kareem	OK
6	S5	S05	CAL6	01/05/25 16:50		Kareem	OK
7	S6	S06	CAL7	01/05/25 16:54		Kareem	OK
8	ICV052	ICV052	ICV	01/05/25 17:52	Inst. paused for calibration review	Kareem	OK
9	ICB052	ICB052	ICB	01/05/25 17:56		Kareem	OK
10	ICSA052	ICSA052	ICSA	01/05/25 18:00		Kareem	OK
11	ICSAB052	ICSAB052	ICSAB	01/05/25 18:04		Kareem	OK
12	CCV112	CCV112	CCV	01/05/25 18:08		Kareem	OK
13	CCB112	CCB112	CCB	01/05/25 18:12		Kareem	OK
14	P5058-03	MBHL82	SAM	01/05/25 18:16	NOT USE	Kareem	Not Ok
15	P5058-04	MBHL82D	DUP	01/05/25 18:20	NOT USE	Kareem	Not Ok
16	P5058-03L	MBHL82L	SD	01/05/25 18:23	NOT USE	Kareem	Not Ok
17	P5058-05	MBHL82S	MS	01/05/25 18:27	NOT USE	Kareem	Not Ok
18	P5121-10	MBHM51	SAM	01/05/25 18:31		Kareem	OK

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

Instrument ID: P5

Daily Analysis Runlog For Sequence/QCBatch ID # LB134162

Review By	Sarabjit Jaswal	Review On	1/6/2025 10:45:01 AM
Supervise By	Mohan Bera	Supervise On	1/6/2025 10:45:56 AM

STD. NAME	STD REF.#
ICAL Standard	MP83500,MP83507,MP83505,MP83504,MP83503,MP83502,MP83501
ICV Standard	MP83508
CCV Standard	MP83511
ICSA Standard	MP83509,MP83510
CRI Standard	MP83728,M5697,MP83726,MP83745
LCS Standard	
Chk Standard	MP83513,MP83514

19	P5121-11	MBHM51D	DUP	01/05/25 18:35		Kareem	OK
20	P5121-10L	MBHM51L	SD	01/05/25 18:39		Kareem	OK
21	P5121-12	MBHM51S	MS	01/05/25 18:43	MS fail for Se (ppb) & Sb,Ag,Tl (Below RL)	Kareem	OK
22	P5055-15DL	MBHKT6	SAM	01/05/25 18:46	4x for Ca	Kareem	Confirms
23	P5056-20DL	MBHL47	SAM	01/05/25 18:50	2x for Ca	Kareem	Confirms
24	P5056-21DL	MBHL47D	DUP	01/05/25 18:54	2x for Ca	Kareem	Confirms
25	P5056-20LDL	MBHL47L	SD	01/05/25 18:58	10x for Ca	Kareem	Confirms
26	P5056-22DL	MBHL47S	MS	01/05/25 19:02	Not Required	Kareem	Not Ok
27	P5062-01DL	MBHKZ7	SAM	01/05/25 19:06	4x for Ca	Kareem	Confirms
28	P5062-02DL	MBHKZ8	SAM	01/05/25 19:10	4x for Ca	Kareem	Confirms
29	P5079-06DL	MBHLF4	SAM	01/05/25 19:14	4x for Ca	Kareem	Confirms
30	P5080-09	MBHLE7	SAM	01/05/25 19:18		Kareem	OK
31	P5080-13	MBHLH6	SAM	01/05/25 19:21		Kareem	OK
32	P5080-14	MBHLH7	SAM	01/05/25 19:25		Kareem	OK
33	P5080-15	MBHLH8	SAM	01/05/25 19:29		Kareem	OK
34	CCV113	CCV113	CCV	01/05/25 19:33		Kareem	OK
35	CCB113	CCB113	CCB	01/05/25 19:37		Kareem	OK
36	P5080-16	MBHLH9	SAM	01/05/25 19:41		Kareem	OK
37	P5080-17	MBHLJ0	SAM	01/05/25 19:44		Kareem	OK

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

Instrument ID: P5

Daily Analysis Runlog For Sequence/QCBatch ID # LB134162

Review By	Sarabjit Jaswal	Review On	1/6/2025 10:45:01 AM
Supervise By	Mohan Bera	Supervise On	1/6/2025 10:45:56 AM

STD. NAME	STD REF.#
ICAL Standard	MP83500,MP83507,MP83505,MP83504,MP83503,MP83502,MP83501
ICV Standard	MP83508
CCV Standard	MP83511
ICSA Standard	MP83509,MP83510
CRI Standard	MP83728,M5697,MP83726,MP83745
LCS Standard	
Chk Standard	MP83513,MP83514

38	P5080-18	MBHM29	SAM	01/05/25 19:48		Kareem	OK
39	P5080-19	MBHM30	SAM	01/05/25 19:52		Kareem	OK
40	P5083-03A	MBHLK0A	PS	01/05/25 19:56	PS for Se,Tl,Zn(0.015ml mp83726,0.05ml mp83745,0.036ml m5819)	Kareem	OK
41	P5086-16DL	MBHLN9	SAM	01/05/25 20:00	4x for Ca	Kareem	Confirms
42	P5122-12A	MBHMC9A	PS	01/05/25 20:04	PS for Tl(0.05ml mp83745-10ml sample)	Kareem	OK
43	P5124-19A	MBHM88A	PS	01/05/25 20:07	Not use	Kareem	Not Ok
44	P5126-03A	MBHMA0A	PS	01/05/25 20:11	PS for Tl(0.05ml mp83745-10ml sample)	Kareem	OK
45	P5128-19A	MBHMK9A	PS	01/05/25 20:15	Not use	Kareem	Not Ok
46	P5129-01A	MBHMK3A	PS	01/05/25 20:19	PS for Cu,Se,Tl,Zn(0.0095ml m5697,0.02ml mp83726,0.05ml mp83745,0.031ml m5819-10ml sample)	Kareem	OK
47	P5130-15A	MBHMH5A	PS	01/05/25 20:23	PS for As,Cu,Se,Tl(0.028ml mp83728,0.016ml m5697,0.023ml mp83726,0.05ml mp83745-10ml sample)	Kareem	OK
48	P5201-19A	MBHNE7A	PS	01/05/25 20:26	PS for Se,Tl,Zn(0.032ml mp83726,0.05ml mp83745,0.006ml m5819)	Kareem	OK
49	P5212-05A	MBHNF3A	PS	01/05/25 20:30	PS for Se(0.012ml mp83726-10ml sample)	Kareem	OK
50	PB165852BL	PBS852	MB	01/05/25 20:34		Kareem	OK

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

Instrument ID: P5

Daily Analysis Runlog For Sequence/QCBatch ID # LB134162

Review By	Sarabjit Jaswal	Review On	1/6/2025 10:45:01 AM
Supervise By	Mohan Bera	Supervise On	1/6/2025 10:45:56 AM

STD. NAME	STD REF.#
ICAL Standard	MP83500,MP83507,MP83505,MP83504,MP83503,MP83502,MP83501
ICV Standard	MP83508
CCV Standard	MP83511
ICSA Standard	MP83509,MP83510
CRI Standard	MP83728,M5697,MP83726,MP83745
LCS Standard	
Chk Standard	MP83513,MP83514

51	PB165852BS	LCS852	LCS	01/05/25 20:38		Kareem	OK
52	P5126-01	MBHM98	SAM	01/05/25 20:42		Kareem	OK
53	P5126-02	MBHM99	SAM	01/05/25 20:46		Kareem	OK
54	P5126-03	MBHMA0	SAM	01/05/25 20:50		Kareem	OK
55	P5126-04	MBHMA0D	DUP	01/05/25 20:53		Kareem	OK
56	CCV114	CCV114	CCV	01/05/25 21:05		Kareem	OK
57	CCB114	CCB114	CCB	01/05/25 21:09		Kareem	OK
58	P5126-03L	MBHMA0L	SD	01/05/25 21:13		Kareem	OK
59	P5126-05	MBHMA0S	MS	01/05/25 21:17	MS fail for Ag,Tl (Below RL)	Kareem	OK
60	P5126-16	MBHMM9	SAM	01/05/25 21:20		Kareem	OK
61	PB165860BL	PBS860	MB	01/05/25 21:24		Kareem	OK
62	PB165860BS	LCS860	LCS	01/05/25 21:28		Kareem	OK
63	P5127-04	MBHMB1	SAM	01/05/25 21:32	Ca high	Kareem	Dilution
64	P5127-05	MBHMB1D	DUP	01/05/25 21:36	Ca high	Kareem	Dilution
65	P5127-04L	MBHMB1L	SD	01/05/25 21:40	Ca High	Kareem	Dilution
66	P5127-06	MBHMB1S	MS	01/05/25 21:44	MS fail for Se,Ag (Below RL)	Kareem	OK
67	P5127-03DL	MBHMB0	SAM	01/05/25 21:48	2x for Ca	Kareem	Confirms
68	P5131-10DL	MBHMM7	SAM	01/05/25 21:51	2x for Mn	Kareem	Confirms
69	CCV115	CCV115	CCV	01/05/25 21:55		Kareem	OK

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

Instrument ID: P5

Daily Analysis Runlog For Sequence/QCBatch ID # LB134162

Review By	Sarabjit Jaswal	Review On	1/6/2025 10:45:01 AM
Supervise By	Mohan Bera	Supervise On	1/6/2025 10:45:56 AM

STD. NAME	STD REF.#
ICAL Standard	MP83500,MP83507,MP83505,MP83504,MP83503,MP83502,MP83501
ICV Standard	MP83508
CCV Standard	MP83511
ICSA Standard	MP83509,MP83510
CRI Standard	MP83728,M5697,MP83726,MP83745
LCS Standard	
Chk Standard	MP83513,MP83514

70	CCB115	CCB115	CCB	01/05/25 21:59		Kareem	OK
71	CCV116	CCV116	CCV	01/05/25 23:09	Instrument paused for review	Kareem	OK
72	CCB116	CCB116	CCB	01/05/25 23:13		Kareem	OK
73	P5080-04	MBHLE2	SAM	01/05/25 23:17		Kareem	OK
74	P5080-05	MBHLE3	SAM	01/05/25 23:21		Kareem	OK
75	P5080-06	MBHLE4	SAM	01/05/25 23:24		Kareem	OK
76	P5080-07	MBHLE5	SAM	01/05/25 23:28	Ca high	Kareem	Dilution
77	P5080-08	MBHLE6	SAM	01/05/25 23:32		Kareem	OK
78	P5128-08	MBHMJ7	SAM	01/05/25 23:36		Kareem	OK
79	P5128-09	MBHMJ8	SAM	01/05/25 23:40		Kareem	OK
80	P5128-10	MBHMJ9	SAM	01/05/25 23:43		Kareem	OK
81	P5128-11	MBHMK0	SAM	01/05/25 23:47		Kareem	OK
82	P5128-12	MBHMK1	SAM	01/05/25 23:51		Kareem	OK
83	P5128-13	MBHMK2	SAM	01/05/25 23:55		Kareem	OK
84	P5128-14	MBHMK4	SAM	01/05/25 23:58		Kareem	OK
85	P5128-15	MBHMK5	SAM	01/06/25 00:02		Kareem	OK
86	P5128-16	MBHMK6	SAM	01/06/25 00:06		Kareem	OK
87	P5128-17	MBHMK7	SAM	01/06/25 00:10		Kareem	OK
88	P5128-18	MBHMK8	SAM	01/06/25 00:14		Kareem	OK

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

Instrument ID: P5

Daily Analysis Runlog For Sequence/QCBatch ID # LB134162

Review By	Sarabjit Jaswal	Review On	1/6/2025 10:45:01 AM
Supervise By	Mohan Bera	Supervise On	1/6/2025 10:45:56 AM

STD. NAME	STD REF.#
ICAL Standard	MP83500,MP83507,MP83505,MP83504,MP83503,MP83502,MP83501
ICV Standard	MP83508
CCV Standard	MP83511
ICSA Standard	MP83509,MP83510
CRI Standard	MP83728,M5697,MP83726,MP83745
LCS Standard	
Chk Standard	MP83513,MP83514

89	P5080-07DL	MBHLE5	SAM	01/06/25 00:18	2x for Ca	Kareem	Confirms
90	PB165861BL	PBS861	MB	01/06/25 00:22		Kareem	OK
91	PB165861BS	LCS861	LCS	01/06/25 00:26		Kareem	OK
92	CCV117	CCV117	CCV	01/06/25 00:30		Kareem	OK
93	CCB117	CCB117	CCB	01/06/25 00:34		Kareem	OK
94	PB165842BL	PBS842	MB	01/06/25 00:39		Kareem	OK
95	PB165842BS	LCS842	LCS	01/06/25 00:43		Kareem	OK
96	PB165841BL	PBS841	MB	01/06/25 00:47		Kareem	OK
97	PB165841BS	LCS841	LCS	01/06/25 00:51		Kareem	OK
98	PB165850BL	PBS850	MB	01/06/25 00:55		Kareem	OK
99	PB165850BS	LCS850	LCS	01/06/25 00:59		Kareem	OK
100	PB165840BL	PBS840	MB	01/06/25 01:03		Kareem	OK
101	PB165840BS	LCS840	LCS	01/06/25 01:07		Kareem	OK
102	P5126-06	MBHMA1	SAM	01/06/25 01:11		Kareem	OK
103	P5126-07	MBHMA2	SAM	01/06/25 01:15		Kareem	OK
104	P5126-08	MBHMA3	SAM	01/06/25 01:19		Kareem	OK
105	P5126-09	MBHMA4	SAM	01/06/25 01:22		Kareem	OK
106	P5126-10	MBHMA5	SAM	01/06/25 01:26		Kareem	OK
107	P5126-11	MBHMA6	SAM	01/06/25 01:30		Kareem	OK
108	P5126-12	MBHMA7	SAM	01/06/25 01:34		Kareem	OK

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

Instrument ID: P5

Daily Analysis Runlog For Sequence/QCBatch ID # LB134162

Review By	Sarabjit Jaswal	Review On	1/6/2025 10:45:01 AM
Supervise By	Mohan Bera	Supervise On	1/6/2025 10:45:56 AM

STD. NAME	STD REF.#
ICAL Standard	MP83500,MP83507,MP83505,MP83504,MP83503,MP83502,MP83501
ICV Standard	MP83508
CCV Standard	MP83511
ICSA Standard	MP83509,MP83510
CRI Standard	MP83728,M5697,MP83726,MP83745
LCS Standard	
Chk Standard	MP83513,MP83514

109	P5126-13	MBHMF2	SAM	01/06/25 01:37		Kareem	OK
110	P5126-14	MBHMF3	SAM	01/06/25 01:41		Kareem	OK
111	P5126-15	MBHMM8	SAM	01/06/25 01:45		Kareem	OK
112	CCV118	CCV118	CCV	01/06/25 01:53		Kareem	OK
113	CCB118	CCB118	CCB	01/06/25 01:57		Kareem	OK
114	P5128-19	MBHMK9	SAM	01/06/25 02:01		Kareem	OK
115	P5128-20	MBHMK9D	DUP	01/06/25 02:04		Kareem	OK
116	P5128-19L	MBHMK9L	SD	01/06/25 02:08		Kareem	OK
117	P5128-21	MBHMK9S	MS	01/06/25 02:12	MS fail for Se (ppb) & Sb,Ag,Tl (Below RL)	Kareem	OK
118	P5122-12	MBHMC9	SAM	01/06/25 02:16		Kareem	OK
119	P5122-13	MBHMC9D	DUP	01/06/25 02:20		Kareem	OK
120	P5122-12L	MBHMC9L	SD	01/06/25 02:23		Kareem	OK
121	P5122-14	MBHMC9S	MS	01/06/25 02:27	MS fail for Ag,Tl (Below RL)	Kareem	OK
122	P5124-19	MBHM88	SAM	01/06/25 02:31		Kareem	OK
123	P5124-20	MBHM88D	DUP	01/06/25 02:35		Kareem	OK
124	P5124-19L	MBHM88L	SD	01/06/25 02:39		Kareem	OK
125	P5124-21	MBHM88S	MS	01/06/25 02:43	MS fail for Mn (ppb), Se (ppb), Zn (ppb) & Ag,Tl (Below RL)	Kareem	OK
126	P5129-01	MBHMK3	SAM	01/06/25 02:46		Kareem	OK
127	P5129-02	MBHMK3D	DUP	01/06/25 02:50		Kareem	OK

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

Instrument ID: P5

Daily Analysis Runlog For Sequence/QCBatch ID # LB134162

Review By	Sarabjit Jaswal	Review On	1/6/2025 10:45:01 AM
Supervise By	Mohan Bera	Supervise On	1/6/2025 10:45:56 AM

STD. NAME	STD REF.#
ICAL Standard	MP83500,MP83507,MP83505,MP83504,MP83503,MP83502,MP83501
ICV Standard	MP83508
CCV Standard	MP83511
ICSA Standard	MP83509,MP83510
CRI Standard	MP83728,M5697,MP83726,MP83745
LCS Standard	
Chk Standard	MP83513,MP83514

128	P5129-01L	MBHMK3L	SD	01/06/25 02:54		Kareem	OK
129	P5129-03	MBHMK3S	MS	01/06/25 02:58	MS fail for Cu (ppb), Se (ppb), Zn (ppb) & Sb,Ag,Tl (Below RL)	Kareem	OK
130	CCV119	CCV119	CCV	01/06/25 03:02		Kareem	OK
131	CCB119	CCB119	CCB	01/06/25 03:05		Kareem	OK

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

Instrument ID: P5

Daily Analysis Runlog For Sequence/QCBatch ID # LB134174

Review By	Sarabjit Jaswal	Review On	1/8/2025 7:26:38 AM
Supervise By	Mohan Bera	Supervise On	1/8/2025 7:28:17 AM

STD. NAME	STD REF.#
ICAL Standard	MP83500,MP83507,MP83505,MP83504,MP83503,MP83502,MP83501
ICV Standard	MP83508
CCV Standard	MP83511
ICSA Standard	MP83509,MP83510
CRI Standard	
LCS Standard	MP83506
Chk Standard	MP83513,MP83514

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	S0	S0	CAL1	01/06/25 13:59		Kareem	OK
2	S1	S01	CAL2	01/06/25 14:03		Kareem	OK
3	S2	S02	CAL3	01/06/25 14:07		Kareem	OK
4	S3	S03	CAL4	01/06/25 14:11		Kareem	OK
5	S4	S04	CAL5	01/06/25 14:15		Kareem	OK
6	S5	S05	CAL6	01/06/25 14:18		Kareem	OK
7	S6	S06	CAL7	01/06/25 14:22		Kareem	OK
8	ICV053	ICV053	ICV	01/06/25 14:34	Instrument paused for calibration review	Kareem	OK
9	ICB053	ICB053	ICB	01/06/25 14:38		Kareem	OK
10	ICSA053	ICSA053	ICSA	01/06/25 14:48	Instrument paused for review	Kareem	OK
11	ICSAB053	ICSAB053	ICSAB	01/06/25 15:03	Instrument paused for review	Kareem	OK
12	CCV120	CCV120	CCV	01/06/25 15:06		Kareem	OK
13	CCB120	CCB120	CCB	01/06/25 15:10		Kareem	OK
14	P5061-05A	MBHL52A	PS	01/06/25 15:14	Not use	Kareem	Not Ok
15	P5080-10A	MBHLE8A	PS	01/06/25 15:18	Not use	Kareem	Not Ok
16	P5084-13A	MBHLX7A	PS	01/06/25 15:22	Not use	Kareem	Not Ok
17	P5086-07A	MBHLN2A	PS	01/06/25 15:26	Not use	Kareem	Not Ok
18	P5089-01A	MBHLZ4A	PS	01/06/25 15:29	Not use	Kareem	Not Ok

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

Instrument ID: P5

Daily Analysis Runlog For Sequence/QCBatch ID # LB134174

Review By	Sarabjit Jaswal	Review On	1/8/2025 7:26:38 AM
Supervise By	Mohan Bera	Supervise On	1/8/2025 7:28:17 AM

STD. NAME	STD REF.#
ICAL Standard	MP83500,MP83507,MP83505,MP83504,MP83503,MP83502,MP83501
ICV Standard	MP83508
CCV Standard	MP83511
ICSA Standard	MP83509,MP83510
CRI Standard	
LCS Standard	MP83506
Chk Standard	MP83513,MP83514

19	P5091-07A	MBHLS0A	PS	01/06/25 15:33	Not use	Kareem	Not Ok
20	P5121-01	MBHM42	SAM	01/06/25 15:37		Kareem	OK
21	P5121-02	MBHM43	SAM	01/06/25 15:41		Kareem	OK
22	P5121-03	MBHM44	SAM	01/06/25 15:44	Zn high	Kareem	Dilution
23	P5121-04	MBHM45	SAM	01/06/25 15:48		Kareem	OK
24	P5121-05	MBHM46	SAM	01/06/25 15:52		Kareem	OK
25	P5121-06	MBHM47	SAM	01/06/25 15:56		Kareem	OK
26	P5121-07	MBHM48	SAM	01/06/25 16:00		Kareem	OK
27	P5121-08	MBHM49	SAM	01/06/25 16:04		Kareem	OK
28	P5121-09	MBHM50	SAM	01/06/25 16:07		Kareem	OK
29	P5121-13	MBHM52	SAM	01/06/25 16:11		Kareem	OK
30	P5121-14	MBHM53	SAM	01/06/25 16:15		Kareem	OK
31	P5121-15	MBHM54	SAM	01/06/25 16:19		Kareem	OK
32	P5121-16	MBHM55	SAM	01/06/25 16:22		Kareem	OK
33	P5121-17	MBHM56	SAM	01/06/25 16:26		Kareem	OK
34	CCV121	CCV121	CCV	01/06/25 16:30		Kareem	OK
35	CCB121	CCB121	CCB	01/06/25 16:44	Instrument paused for review	Kareem	OK
36	P5121-18	MBHM57	SAM	01/06/25 16:48		Kareem	OK
37	P5121-19	MBHM58	SAM	01/06/25 16:52		Kareem	OK

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

Instrument ID: P5

Daily Analysis Runlog For Sequence/QCBatch ID # LB134174

Review By	Sarabjit Jaswal	Review On	1/8/2025 7:26:38 AM
Supervise By	Mohan Bera	Supervise On	1/8/2025 7:28:17 AM

STD. NAME	STD REF.#
ICAL Standard	MP83500,MP83507,MP83505,MP83504,MP83503,MP83502,MP83501
ICV Standard	MP83508
CCV Standard	MP83511
ICSA Standard	MP83509,MP83510
CRI Standard	
LCS Standard	MP83506
Chk Standard	MP83513,MP83514

38	P5121-20	MBHM59	SAM	01/06/25 16:56		Kareem	OK
39	P5121-21	MBHM60	SAM	01/06/25 17:00		Kareem	OK
40	P5121-22	MBHM61	SAM	01/06/25 17:04		Kareem	OK
41	P5122-01	MBHM62	SAM	01/06/25 17:07		Kareem	OK
42	P5122-02	MBHM63	SAM	01/06/25 17:11		Kareem	OK
43	P5122-03	MBHM64	SAM	01/06/25 17:15		Kareem	OK
44	P5122-04	MBHM65	SAM	01/06/25 17:19		Kareem	OK
45	P5122-05	MBHM66	SAM	01/06/25 17:23		Kareem	OK
46	P5122-06	MBHM67	SAM	01/06/25 17:26		Kareem	OK
47	P5122-07	MBHM68	SAM	01/06/25 17:30		Kareem	OK
48	P5122-08	MBHM69	SAM	01/06/25 17:34	Ca high	Kareem	Dilution
49	P5122-09	MBHMC6	SAM	01/06/25 17:38		Kareem	OK
50	P5122-10	MBHMC7	SAM	01/06/25 17:42		Kareem	OK
51	P5122-11	MBHMC8	SAM	01/06/25 17:45		Kareem	OK
52	P5122-15	MBHMD0	SAM	01/06/25 17:49		Kareem	OK
53	P5122-16	MBHMD1	SAM	01/06/25 17:53	Mn high	Kareem	Dilution
54	P5122-17	MBHMD2	SAM	01/06/25 17:57		Kareem	OK
55	P5122-18	MBHMD3	SAM	01/06/25 18:00		Kareem	OK
56	CCV122	CCV122	CCV	01/06/25 18:04		Kareem	OK
57	CCB122	CCB122	CCB	01/06/25 18:08		Kareem	OK

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

Instrument ID: P5

Daily Analysis Runlog For Sequence/QCBatch ID # LB134174

Review By	Sarabjit Jaswal	Review On	1/8/2025 7:26:38 AM
Supervise By	Mohan Bera	Supervise On	1/8/2025 7:28:17 AM

STD. NAME	STD REF.#
ICAL Standard	MP83500,MP83507,MP83505,MP83504,MP83503,MP83502,MP83501
ICV Standard	MP83508
CCV Standard	MP83511
ICSA Standard	MP83509,MP83510
CRI Standard	
LCS Standard	MP83506
Chk Standard	MP83513,MP83514

58	P5127-04DL3	MBHMB1	SAM	01/06/25 18:12	Not use	Kareem	Not Ok
59	P5127-05DL3	MBHMB1D	DUP	01/06/25 18:16	Not use	Kareem	Not Ok
60	P5352-04	ME2926	SAM	01/06/25 18:20		Kareem	OK
61	P5352-05	ME2926D	DUP	01/06/25 18:24		Kareem	OK
62	P5352-04L	ME2926L	SD	01/06/25 18:28		Kareem	OK
63	P5352-06	ME2926S	MS	01/06/25 18:31		Kareem	OK
64	PB165787BL	PBS787	MB	01/06/25 18:35		Kareem	OK
65	PB165787BS	LCS787	LCS	01/06/25 18:45		Kareem	OK
66	P5121-10A	MBHM51A	PS	01/06/25 18:49	PS For Se-0.015-MP83726,Tl-0.05 -MP83745-10 ml Sample	Kareem	OK
67	P5127-04ARE	MBHMB1A	PS	01/06/25 18:53	Not use	Kareem	Not Ok
68	P5122-19	MBHMD4	SAM	01/06/25 18:57		Kareem	OK
69	P5124-01	MBHM70	SAM	01/06/25 19:00		Kareem	OK
70	P5124-02	MBHM71	SAM	01/06/25 19:04		Kareem	OK
71	P5124-03	MBHM72	SAM	01/06/25 19:08		Kareem	OK
72	P5124-04	MBHM73	SAM	01/06/25 19:12		Kareem	OK
73	P5124-05	MBHM74	SAM	01/06/25 19:15		Kareem	OK
74	P5124-06	MBHM75	SAM	01/06/25 19:19		Kareem	OK
75	P5124-07	MBHM76	SAM	01/06/25 19:23		Kareem	OK
76	CCV123	CCV123	CCV	01/06/25 19:27		Kareem	OK

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

Instrument ID: P5

Daily Analysis Runlog For Sequence/QCBatch ID # LB134174

Review By	Sarabjit Jaswal	Review On	1/8/2025 7:26:38 AM
Supervise By	Mohan Bera	Supervise On	1/8/2025 7:28:17 AM

STD. NAME	STD REF.#
ICAL Standard	MP83500,MP83507,MP83505,MP83504,MP83503,MP83502,MP83501
ICV Standard	MP83508
CCV Standard	MP83511
ICSA Standard	MP83509,MP83510
CRI Standard	
LCS Standard	MP83506
Chk Standard	MP83513,MP83514

77	CCB123	CCB123	CCB	01/06/25 19:31		Kareem	OK
78	P5126-03A	MBHMA0A	PS	01/06/25 19:35	Not use	Kareem	Not Ok
79	P5127-04ARE2	MBHMB1A	PS	01/06/25 19:38	Not use	Kareem	Not Ok
80	P5128-19A	MBHMK9A	PS	01/06/25 19:42	PS for Se(0.019ml MP83726),Tl(0.05ml MP83745)	Kareem	OK
81	P5122-12A	MBHMC9A	PS	01/06/25 19:46	Not use	Kareem	Not Ok
82	P5124-19A	MBHM88A	PS	01/06/25 19:50	PS for Mn(0.04ml M5698),Se(0.007ml MP83726),Tl(0.05ml MP83745),Zn(0.01ml M5819)	Kareem	OK
83	P5129-01A	MBHMK3A	PS	01/06/25 19:54	Not use	Kareem	Not Ok
84	P5130-15A	MBHMH5A	PS	01/06/25 19:57	Not use	Kareem	Not Ok
85	P5127-04DL2	MBHMB1	SAM	01/06/25 20:01	Not use	Kareem	Not Ok
86	P5127-05DL2	MBHMB1D	DUP	01/06/25 20:05	Not use	Kareem	Not Ok
87	P5127-04LDL2	MBHMB1L	SD	01/06/25 20:09	Not use	Kareem	Not Ok
88	P5127-06DL2	MBHMB1S	MS	01/06/25 20:13	Not use	Kareem	Not Ok
89	P5122-08DL	MBHM69	SAM	01/06/25 20:17	2X for Ca	Kareem	Confirms
90	P5122-16DL	MBHMD1	SAM	01/06/25 20:21	2X for Mn	Kareem	Confirms
91	P5127-03DL	MBHMB0	SAM	01/06/25 20:24	Not use	Kareem	Not Ok
92	P5131-10DL	MBHMM7	SAM	01/06/25 20:28	Not use	Kareem	Not Ok
93	P5056-20DL	MBHL47	SAM	01/06/25 20:32	Not use	Kareem	Not Ok

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

Instrument ID: P5

Daily Analysis Runlog For Sequence/QCBatch ID # LB134174

Review By	Sarabjit Jaswal	Review On	1/8/2025 7:26:38 AM
Supervise By	Mohan Bera	Supervise On	1/8/2025 7:28:17 AM

STD. NAME	STD REF.#
ICAL Standard	MP83500,MP83507,MP83505,MP83504,MP83503,MP83502,MP83501
ICV Standard	MP83508
CCV Standard	MP83511
ICSA Standard	MP83509,MP83510
CRI Standard	
LCS Standard	MP83506
Chk Standard	MP83513,MP83514

94	P5056-21DL	MBHL47D	DUP	01/06/25 20:36	Not use	Kareem	Not Ok
95	P5056-20LDL	MBHL47L	SD	01/06/25 20:40	Not use	Kareem	Not Ok
96	P5056-22DL	MBHL47S	MS	01/06/25 20:44	Not use	Kareem	Not Ok
97	P5124-08	MBHM77	SAM	01/06/25 20:48		Kareem	OK
98	CCV124	CCV124	CCV	01/06/25 20:51		Kareem	OK
99	CCB124	CCB124	CCB	01/06/25 20:55		Kareem	OK
100	P5127-04DL	MBHMB1	SAM	01/06/25 20:59	5X for Ca	Kareem	Confirms
101	P5127-05DL	MBHMB1D	DUP	01/06/25 21:03	5X for Ca	Kareem	Confirms
102	P5127-04LDL	MBHMB1L	SD	01/06/25 21:07	25X for Ca	Kareem	Confirms
103	P5127-06DL	MBHMB1S	MS	01/06/25 21:11	5X for Ca	Kareem	Not Ok
104	P5132-17	MBHMJ6	SAM	01/06/25 21:15		Kareem	OK
105	P5132-18	MBHMJ6D	DUP	01/06/25 21:18		Kareem	OK
106	P5132-17L	MBHMJ6L	SD	01/06/25 21:22		Kareem	OK
107	P5132-19	MBHMJ6S	MS	01/06/25 21:26	Fail for As(175.4317ppb),Cu(618.6192ppb),Se(40.7325ppb),Zn(2481.956ppb)	Kareem	OK
108	P5124-09	MBHM78	SAM	01/06/25 21:30		Kareem	OK
109	P5124-10	MBHM79	SAM	01/06/25 21:34		Kareem	OK
110	P5124-11	MBHM80	SAM	01/06/25 21:37		Kareem	OK
111	P5124-12	MBHM81	SAM	01/06/25 21:41		Kareem	OK

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

Instrument ID: P5

Daily Analysis Runlog For Sequence/QCBatch ID # LB134174

Review By	Sarabjit Jaswal	Review On	1/8/2025 7:26:38 AM
Supervise By	Mohan Bera	Supervise On	1/8/2025 7:28:17 AM

STD. NAME	STD REF.#
ICAL Standard	MP83500,MP83507,MP83505,MP83504,MP83503,MP83502,MP83501
ICV Standard	MP83508
CCV Standard	MP83511
ICSA Standard	MP83509,MP83510
CRI Standard	
LCS Standard	MP83506
Chk Standard	MP83513,MP83514

112	P5124-13	MBHM82	SAM	01/06/25 21:45		Kareem	OK
113	P5124-14	MBHM83	SAM	01/06/25 21:49	Ca high	Kareem	Dilution
114	P5121-10ARE	MBHM51A	PS	01/06/25 21:53	Not use	Kareem	Not Ok
115	P5127-04A	MBHMB1A	PS	01/06/25 21:57	PS For Se-0.007-MP83726-10ml Samlple	Kareem	OK
116	P5128-19ARE	MBHMK9A	PS	01/06/25 22:01	Not use	Kareem	Not Ok
117	P5122-12ARE	MBHMC9A	PS	01/06/25 22:04	Not use	Kareem	Not Ok
118	P5124-19ARE	MBHM88A	PS	01/06/25 22:08	Not use	Kareem	Not Ok
119	P5129-01ARE	MBHMK3A	PS	01/06/25 22:12	Not use	Kareem	Not Ok
120	CCV125	CCV125	CCV	01/06/25 22:16		Kareem	OK
121	CCB125	CCB125	CCB	01/06/25 22:20		Kareem	OK
122	P5129-05	MBHML1	SAM	01/06/25 22:24		Kareem	OK
123	P5129-06	MBHML2	SAM	01/06/25 22:27		Kareem	OK
124	P5129-07	MBHML3	SAM	01/06/25 22:31		Kareem	OK
125	P5129-08	MBHML4	SAM	01/06/25 22:35	Ca high	Kareem	Dilution
126	P5129-09	MBHMN0	SAM	01/06/25 22:39		Kareem	OK
127	P5129-10	MBHMN1	SAM	01/06/25 22:43		Kareem	OK
128	P5352-01	ME2922	SAM	01/06/25 22:46		Kareem	OK
129	P5352-02	ME2924	SAM	01/06/25 22:50		Kareem	OK
130	P5352-03	ME2925	SAM	01/06/25 22:54		Kareem	OK

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

Instrument ID: P5

Daily Analysis Runlog For Sequence/QCBatch ID # LB134174

Review By	Sarabjit Jaswal	Review On	1/8/2025 7:26:38 AM
Supervise By	Mohan Bera	Supervise On	1/8/2025 7:28:17 AM

STD. NAME	STD REF.#
ICAL Standard	MP83500,MP83507,MP83505,MP83504,MP83503,MP83502,MP83501
ICV Standard	MP83508
CCV Standard	MP83511
ICSA Standard	MP83509,MP83510
CRI Standard	
LCS Standard	MP83506
Chk Standard	MP83513,MP83514

131	P5132-01	MBHME1	SAM	01/06/25 22:58		Kareem	OK
132	P5132-02	MBHME2	SAM	01/06/25 23:01		Kareem	OK
133	P5132-03	MBHME3	SAM	01/06/25 23:05		Kareem	OK
134	P5132-04	MBHMG0	SAM	01/06/25 23:09		Kareem	OK
135	P5132-05	MBHMG1	SAM	01/06/25 23:13		Kareem	OK
136	P5132-06	MBHMG2	SAM	01/06/25 23:17		Kareem	OK
137	P5132-07	MBHMH6	SAM	01/06/25 23:20		Kareem	OK
138	P5132-08	MBHMH7	SAM	01/06/25 23:24		Kareem	OK
139	P5132-09	MBHMH8	SAM	01/06/25 23:28		Kareem	OK
140	P5132-10	MBHMH9	SAM	01/06/25 23:32		Kareem	OK
141	P5132-11	MBHMJ0	SAM	01/06/25 23:35		Kareem	OK
142	CCV126	CCV126	CCV	01/06/25 23:39		Kareem	OK
143	CCB126	CCB126	CCB	01/06/25 23:43		Kareem	OK
144	P5132-12	MBHMJ1	SAM	01/06/25 23:47		Kareem	OK
145	P5132-13	MBHMJ2	SAM	01/06/25 23:51		Kareem	OK
146	P5132-14	MBHMJ3	SAM	01/06/25 23:55		Kareem	OK
147	P5132-15	MBHMJ4	SAM	01/06/25 23:58		Kareem	OK
148	P5132-16	MBHMJ5	SAM	01/07/25 00:02		Kareem	OK
149	P5132-20	MBHMN4	SAM	01/07/25 00:06		Kareem	OK
150	P5124-15	MBHM84	SAM	01/07/25 00:10		Kareem	OK

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

Instrument ID: P5

Daily Analysis Runlog For Sequence/QCBatch ID # LB134174

Review By	Sarabjit Jaswal	Review On	1/8/2025 7:26:38 AM
Supervise By	Mohan Bera	Supervise On	1/8/2025 7:28:17 AM

STD. NAME	STD REF.#
ICAL Standard	MP83500,MP83507,MP83505,MP83504,MP83503,MP83502,MP83501
ICV Standard	MP83508
CCV Standard	MP83511
ICSA Standard	MP83509,MP83510
CRI Standard	
LCS Standard	MP83506
Chk Standard	MP83513,MP83514

151	P5124-16	MBHM85	SAM	01/07/25 00:14		Kareem	OK
152	P5124-17	MBHM86	SAM	01/07/25 00:17		Kareem	OK
153	P5124-18	MBHM87	SAM	01/07/25 00:21		Kareem	OK
154	P5124-22	MBHM89	SAM	01/07/25 00:25		Kareem	OK
155	P5129-04	MBHML0	SAM	01/07/25 00:29		Kareem	OK
156	P5124-14DL	MBHM83	SAM	01/07/25 00:33	2X for Ca	Kareem	Confirms
157	CCV127	CCV127	CCV	01/07/25 00:36		Kareem	OK
158	CCB127	CCB127	CCB	01/07/25 00:40		Kareem	OK

ORIGIN ID:BUFA (716) 853-1220
EMMANUEL GARCIAVILLAR
WSP USA INC.
50 LAKEFRONT BLVD

BUFFALO, NY 14202
UNITED STATES US

SHIP DATE: 04DEC24
[redacted]
DIMS: 19x14x12 IN
BILL SENDER

TO MOHAMMAD AHMED
ALLIANCE TECHNICAL GROUP LLC
284 SHEFFIELD STREET

MOUNTAINSIDE NJ 07092
(908) 789-8900
INV: 03.02.02.EXP
PO: 31800192.009A

REF: US000650
DEPT: EMMANUEL GARCIA

12-5-24
1010
2.0 lb

58CJ4/EB78/C6C4

FedEx Express

THU - 05 DEC 12:00P
PRIORITY OVERNIGHT

1 of 6

TRK# 0201 7704 9476 2339

MASTER

07092
NJ-US EWR

NF KBCA

FedEx Ship Manager - Print Your Label(s)

12/4/24, 3:13 PM

Alliance TECHNICAL GROUP 284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Login Summary Report

Order ID :	P5122	Order Date :	12/5/2024 10:10:00 AM	Project Mgr :	Deepak
Client :	USEPA CLP SMO	Project :	51879	Report Type :	USEPA CLP
Contact :	Anita Kapadia	Receive Date :	12/5/2024 10:10:00 AM	EDD Type :	EPA CLP
Date Sign Off :	12/5/2024 1:56:02 PM				

Sample ID	Client ID	Matrix	Sampling Date	Test	Test Group	Method	TAT Days	Fax Due Date	HC Due Date
P5122-01	MBHM62	Solid	11/26/2024						
				Metals CLP Full		SFAM_AES	15	01/09/2025	01/09/2025
				Percent Solids		Chemtech -SOP	15	01/09/2025	01/09/2025
P5122-02	MBHM63	Solid	11/26/2024						
				Metals CLP Full		SFAM_AES	15	01/09/2025	01/09/2025
				Percent Solids		Chemtech -SOP	15	01/09/2025	01/09/2025
P5122-03	MBHM64	Solid	11/26/2024						
				Metals CLP Full		SFAM_AES	15	01/09/2025	01/09/2025
				Percent Solids		Chemtech -SOP	15	01/09/2025	01/09/2025
P5122-04	MBHM65	Solid	11/26/2024						
				Metals CLP Full		SFAM_AES	15	01/09/2025	01/09/2025
				Percent Solids		Chemtech -SOP	15	01/09/2025	01/09/2025
P5122-05	MBHM66	Solid	11/26/2024						
				Metals CLP Full		SFAM_AES	15	01/09/2025	01/09/2025
				Percent Solids		Chemtech -SOP	15	01/09/2025	01/09/2025
P5122-06	MBHM67	Solid	11/26/2024						
				Metals CLP Full		SFAM_AES	15	01/09/2025	01/09/2025
				Percent Solids		Chemtech -SOP	15	01/09/2025	01/09/2025
P5122-07	MBHM68	Solid	11/26/2024						
				Metals CLP Full		SFAM_AES	15	01/09/2025	01/09/2025
				Percent Solids		Chemtech -SOP	15	01/09/2025	01/09/2025
P5122-08	MBHM69	Solid	11/26/2024						
				Metals CLP Full		SFAM_AES	15	01/09/2025	01/09/2025
				Percent Solids		Chemtech -SOP	15	01/09/2025	01/09/2025
P5122-09	MBHMC6	Solid	11/26/2024						
				Metals CLP Full		SFAM_AES	15	01/09/2025	01/09/2025
				Percent Solids		Chemtech -SOP	15	01/09/2025	01/09/2025
P5122-10	MBHMC7	Solid	11/26/2024						
				Metals CLP Full		SFAM_AES	15	01/09/2025	01/09/2025
				Percent Solids		Chemtech -SOP	15	01/09/2025	01/09/2025

P5122-11	MBHMC8	Solid	11/26/2024					
				Metals CLP Full	SFAM_AES	15	01/09/2025	01/09/2025
				Percent Solids	Chemtech -SOP	15	01/09/2025	01/09/2025
P5122-12	MBHMC9	Solid	11/26/2024					
				Metals CLP Full	SFAM_AES	15	01/09/2025	01/09/2025
				Percent Solids	Chemtech -SOP	15	01/09/2025	01/09/2025
P5122-13	MBHMC9D	Solid	11/26/2024					
				Metals CLP Full	SFAM_AES	15	01/09/2025	01/09/2025
				Percent Solids	Chemtech -SOP	15	01/09/2025	01/09/2025
P5122-14	MBHMC9S	Solid	11/26/2024					
				Metals CLP Full	SFAM_AES	15	01/09/2025	01/09/2025
				Percent Solids	Chemtech -SOP	15	01/09/2025	01/09/2025
P5122-15	MBHMD0	Solid	11/26/2024					
				Metals CLP Full	SFAM_AES	15	01/09/2025	01/09/2025
				Percent Solids	Chemtech -SOP	15	01/09/2025	01/09/2025
P5122-16	MBHMD1	Solid	11/26/2024					
				Metals CLP Full	SFAM_AES	15	01/09/2025	01/09/2025
				Percent Solids	Chemtech -SOP	15	01/09/2025	01/09/2025
P5122-17	MBHMD2	Solid	11/26/2024					
				Metals CLP Full	SFAM_AES	15	01/09/2025	01/09/2025
				Percent Solids	Chemtech -SOP	15	01/09/2025	01/09/2025
P5122-18	MBHMD3	Solid	11/26/2024		FD			
				Metals CLP Full	SFAM_AES	15	01/09/2025	01/09/2025
				Percent Solids	Chemtech -SOP	15	01/09/2025	01/09/2025
P5122-19	MBHMD4	Solid	11/26/2024		FD			
				Metals CLP Full	SFAM_AES	15	01/09/2025	01/09/2025
				Percent Solids	Chemtech -SOP	15	01/09/2025	01/09/2025

WORKLIST(Hardcopy Internal Chain)

WorkList Name : PB165841 **WorkList ID :** 186608 **Department :** Digestion **Date :** 12-26-2024 08:22:54

7900

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P5122-01	MBHM62	Solid	Metals CLP Full	Cool 4 deg C	USEP01	C31	11/26/2024	SFAM_AES
P5122-02	MBHM63	Solid	Metals CLP Full	Cool 4 deg C	USEP01	C31	11/26/2024	SFAM_AES
P5122-03	MBHM64	Solid	Metals CLP Full	Cool 4 deg C	USEP01	C31	11/26/2024	SFAM_AES
P5122-04	MBHM65	Solid	Metals CLP Full	Cool 4 deg C	USEP01	C31	11/26/2024	SFAM_AES
P5122-05	MBHM66	Solid	Metals CLP Full	Cool 4 deg C	USEP01	C31	11/26/2024	SFAM_AES
P5122-06	MBHM67	Solid	Metals CLP Full	Cool 4 deg C	USEP01	C31	11/26/2024	SFAM_AES
P5122-07	MBHM68	Solid	Metals CLP Full	Cool 4 deg C	USEP01	C31	11/26/2024	SFAM_AES
P5122-08	MBHM69	Solid	Metals CLP Full	Cool 4 deg C	USEP01	C31	11/26/2024	SFAM_AES
P5122-09	MBHMC6	Solid	Metals CLP Full	Cool 4 deg C	USEP01	C31	11/26/2024	SFAM_AES
P5122-10	MBHMC7	Solid	Metals CLP Full	Cool 4 deg C	USEP01	C31	11/26/2024	SFAM_AES
P5122-11	MBHMC8	Solid	Metals CLP Full	Cool 4 deg C	USEP01	C31	11/26/2024	SFAM_AES
P5122-12	MBHMC9	Solid	Metals CLP Full	Cool 4 deg C	USEP01	C31	11/26/2024	SFAM_AES
P5122-13	MBHMC9D	Solid	Metals CLP Full	Cool 4 deg C	USEP01	C31	11/26/2024	SFAM_AES
P5122-14	MBHMC9S	Solid	Metals CLP Full	Cool 4 deg C	USEP01	C31	11/26/2024	SFAM_AES
P5122-15	MBHMD0	Solid	Metals CLP Full	Cool 4 deg C	USEP01	C31	11/26/2024	SFAM_AES
P5122-16	MBHMD1	Solid	Metals CLP Full	Cool 4 deg C	USEP01	C31	11/26/2024	SFAM_AES
P5122-17	MBHMD2	Solid	Metals CLP Full	Cool 4 deg C	USEP01	C31	11/26/2024	SFAM_AES
P5122-18	MBHMD3	Solid	Metals CLP Full	Cool 4 deg C	USEP01	C31	11/26/2024	SFAM_AES
P5122-19	MBHMD4	Solid	Metals CLP Full	Cool 4 deg C	USEP01	C31	11/26/2024	SFAM_AES

Date/Time 12/26/24 8:40
Raw Sample Received by: SRS. mct digestion
Raw Sample Relinquished by:

Date/Time 12/26/24 9:40
Raw Sample Received by:
Raw Sample Relinquished by: SRS. mct digestion