SDG COVER PAGE

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

Lab Code: ACE Case No.: 51879 MA No.: SDG No.: MBHHJ1

SOW No. : SFAM01.1

EPA Sample No.	Lab Sample Id	Analysis Method ICP-AES	ICP-MS	Mercury	Cyanide
MBHHJ1	P4912-01	X			
MBHHJ2	P4912-02	X			
MBHHJ3	P4912-03	X			
MBHHJ4	P4912-04	X			
MBHHJ4D	P4912-05	X			
MBHHJ4S	P4912-06	X			
MBHHJ5	P4912-07	X			
MBHHJ6	P4912-08	X			
MBHHJ7	P4912-09	X			
MBHHJ8	P4912-10	X			
MBHHJ9	P4912-11	X			
MBHHK0	P4912-12	X			
MBHHK1	P4912-13	X			
MBHHK2	P4912-14	X			
MBHHK3	P4912-15	X			
MBHHL8	P4912-16	X			
MBHHL9	P4912-17	X			
MBHHM0	P4912-18	X			
MBHHM1	P4912-19	X			
MBHHM2	P4912-20	X			
MBHHM3	P4912-21	X			
MBHHM4	P4912-22	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:

68HERH20D0011

SDG # MBHHJ1

USEPA CLP COC (LAB COPY)
DateShipped: 11/18/2024
CarrierName: FedEx
AirbillNo: 7700 4046 1540

CHAIN OF CUSTODY RECORD

Case #: 51879
Cooler #: 1

No: 2-111824-100745-0005
Lab: Alliance Technical Group LLC
Lab Contact: Mohammad Ahmed
Lab Phone: 908-789-8900

2

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	For Lab Use Only
P141-SB-13-Z00-02	MBHHJ1	Soil/		ICP-AES(35)	1461 (Wet ice < 6 C) (1)	P141-SB-13	11/14/2024 14:35	
P141-SB-13-Z02-06	MBHHJ2	Soil/		ICP-AES(35)	1462 (Wet ice < 6 C) (1)	P141-SB-13	11/14/2024 14:35	
P141-SB-13-Z06-12	MBHHJ3	Soil/		ICP-AES(35)	1463 (Wet ice < 6 C) (1)	P141-SB-13	11/14/2024 14:35	
P141-SB-13-Z12-18	MBHHJ4	Soil/		ICP-AES(35)	1464 (Wet ice < 6 C) (2)	P141-SB-13	11/14/2024 14:35	QC
P141-SB-13-Z18-24	MBHHJ5	Soil/		ICP-AES(35)	1465 (Wet ice < 6 C) (1)	P141-SB-13	11/14/2024 14:35	
P141-SB-13-Z24-30	MBHHJ6	Soil/		ICP-AES(35)	5429 (Wet ice < 6 C) (1)	P141-SB-13	11/14/2024 14:35	
P141-SB-13-Z30-36	MBHHJ7	Soil/		ICP-AES(35)	5430 (Wet ice < 6 C) (1)	P141-SB-13	11/14/2024 14:35	
P146-SB-07-Z00-02	MBHHJ8	Soil/		ICP-AES(35)	1511 (Wet ice < 6 C) (1)	P146-SB-07	11/14/2024 13:00	
P146-SB-07-Z02-06	MBHHJ9	Soil/		ICP-AES(35)	1512 (Wet ice < 6 C) (1)	P146-SB-07	11/14/2024 13:00	
P146-SB-07-Z06-12	MBHHK0	Soil/		ICP-AES(35)	1513 (Wet ice < 6 C) (1)	P146-SB-07	11/14/2024 13:00	

Sample(s) to be used for Lab QC: P141-SB-13-Z12-18 Tag 1464 - Special Instructions: Additional sample volume provided for MBHHJ4 is for MS/MSD.

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] USI	11/18/24 14:10	[signature]	11-19-24 0957	2.1°C IL Qw #1
			N/A [signature]		custody seals intact
			11/18/24		Temp Blk present

68HERH20D0011

SDG # MBHHJ1

USEPA CLP COC (LAB COPY)

DateShipped: 11/18/2024

CarrierName: FedEx

AirbillNo: 7700 4046 1540

CHAIN OF CUSTODY RECORD

Case #: 51879

Cooler #: 1

No: 2-111824-100745-0005

Lab: Alliance Technical Group LLC

Lab Contact: Mohammad Ahmed

Lab Phone: 908-789-8900

3

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	For Lab Use Only
P146-SB-07-Z12-18	MBHHK1	Soil/		ICP-AES(35)	1514 (Wet ice < 6 C) (1)	P146-SB-07	11/14/2024 13:00	
P146-SB-07-Z18-24	MBHHK2	Soil/		ICP-AES(35)	1515 (Wet ice < 6 C) (1)	P146-SB-07	11/14/2024 13:00	
P146-SB-07-Z24-30	MBHHK3	Soil/		ICP-AES(35)	5431 (Wet ice < 6 C) (1)	P146-SB-07	11/14/2024 13:00	
P140-SB-07-Z00-02	MBHHL8	Soil/		ICP-AES(35)	1445 (Wet ice < 6 C) (1)	P140-SB-07	11/14/2024 11:00	
P140-SB-07-Z02-06	MBHHL9	Soil/		ICP-AES(35)	1446 (Wet ice < 6 C) (1)	P140-SB-07	11/14/2024 11:00	
P140-SB-07-Z06-12	MBHHM0	Soil/		ICP-AES(35)	1447 (Wet ice < 6 C) (1)	P140-SB-07	11/14/2024 11:00	
P140-SB-07-Z12-18	MBHHM1	Soil/		ICP-AES(35)	1448 (Wet ice < 6 C) (1)	P140-SB-07	11/14/2024 11:00	
P140-SB-05-Z30-36	MBHHM2	Soil/		ICP-AES(35)	1443 (Wet ice < 6 C) (1)	P140-SB-05	11/14/2024 11:11	
P140-SB-05-Z36-42	MBHHM3	Soil/		ICP-AES(35)	1444 (Wet ice < 6 C) (1)	P140-SB-05	11/14/2024 11:11	
P146-SB-07-Z00-02-FD	MBHHM4	Soil/		ICP-AES(35)	5432 (Wet ice < 6 C) (1)	P146-SB-07	11/14/2024 13:00	

N/A 11/18/24

Special Instructions: Additional sample volume provided for MBHHJ4 is for MS/MSD.

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	11/18/24 14:10		11-19-24 0957	21°
			N/A		custody seal intact
			11/18/24		Temp blk present

FORM DC-1

SAMPLE LOG-IN SHEET

Lab Name : Alliance Technical Group, LLC		Page 1 of 1
Received By (Print Name) George Nelson		Log-in Date **11/19/2024**
Received By (Signature)		
Case Number 51879	SDG No. MBHHJ1	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.	770040461540 1
6. Shipping Container Temperature Indicator Bottle	Present
7. Shipping Container Temperature	2.1 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	11/19/2024
12.Time Received	09:57

	EPA Sample #	Aqueous/ Water Sample pH	Corresponding		Remarks: Condition of Sample Shipment, etc.
			Sample Tag #	Assigned Lab #	
1	MBHHJ1	N/A	1461	P4912-01	Intact
2	MBHHJ2	N/A	1462	P4912-02	Intact
3	MBHHJ3	N/A	1463	P4912-03	Intact
4	MBHHJ4	N/A	1464	P4912-04	Intact
5	MBHHJ4D	N/A	1464	P4912-05	Intact
6	MBHHJ4S	N/A	1464	P4912-06	Intact
7	MBHHJ5	N/A	1465	P4912-07	Intact
8	MBHHJ6	N/A	5429	P4912-08	Intact
9	MBHHJ7	N/A	5430	P4912-09	Intact
10	MBHHJ8	N/A	1511	P4912-10	Intact
11	MBHHJ9	N/A	1512	P4912-11	Intact
12	MBHHK0	N/A	1513	P4912-12	Intact
13	MBHHK1	N/A	1514	P4912-13	Intact
14	MBHHK2	N/A	1515	P4912-14	Intact
15	MBHHK3	N/A	5431	P4912-15	Intact
16	MBHHL8	N/A	1445	P4912-16	Intact
17	MBHHL9	N/A	1446	P4912-17	Intact
18	MBHHM0	N/A	1447	P4912-18	Intact
19	MBHHM1	N/A	1448	P4912-19	Intact
20	MBHHM2	N/A	1443	P4912-20	Intact
21	MBHHM3	N/A	1444	P4912-21	Intact
22	MBHHM4	N/A	5432	P4912-22	Intact
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	11/19/24	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.	**MBHHJ1**
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	9	✓	
6. Communication Logs	NA	NA	✓	
7. Percent Solids Log	10	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	32	✓	
9. Instrument raw data by instrument in analysis order	33	715	✓	
Other Data				
10. Standard and Reagent Preparation Logs	716	894	✓	
11. Original Preparation and Cleanup forms or copies of Preparation and Cleanup Logbooks	895	896	✓	
12. Original Analysis or Instrument Run forms or copies of Analysis or Instrument Logbooks	897	918	✓	
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)	919	919	✓	
Sample Tags	NA	NA	✓	
Sample Log-In Sheet (Lab)	920	921	✓	
45. Misc. Shipping/Receiving Records (list all individual records)				
	NA	NA	✓	
46. Internal Lab Sample Transfer Records and Tracking Sheets (describe or list)				
	922	923	✓	
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 # MBHHJ1
CASE # 51879
CONTRACT # 68HERH20D0011
SOW# SFAM01.1
LAB NAME: Alliance Technical Group, LLC
LAB CODE: ACE
LAB ORDER ID # P4912

A. Number of Samples and Date of Receipt

20 Soil samples were delivered to the laboratory intact on 11/19/2024

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: 2.1^{o}C

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

Issue 1 : A "P" or "M" prefix was listed at the beginning of a CLP sample ID.

E. Corrective Action taken for above:

Resolution 1 : 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.

284 Sheffield Street
Mountainside, NJ 07092

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 MBHHJ1 For Arsenic:

If C = 0.0319862 ppm
Vf = 100 ml
W = 1.45 g
S = 0.736(73.6/100)
DF = 1

$$\text{Concentration (mg/kg)} = 0.0319862 \times \frac{100}{1.45 \times 0.736} \times 1$$

$$= 2.997207 \text{ mg/kg}$$

$$= 3.0 \text{ mg/kg (Reported Result with Signification)}$$

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 Copper, Selenium, Silver, Zinc. Duplicate sample did meet requirements. Serial Dilution did meet requirements.

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: 11/20/2024

OVENTEMP IN Celsius(°C): 107
Time IN: 13:30
In Date: 11/19/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 07:50
Out Date: 11/20/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID- OVEN

QC: LB133510

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
P4912-01	MBHHJ1	1	1.15	8.82	9.97	7.64	73.6	
P4912-02	MBHHJ2	2	1.18	8.45	9.63	7.82	78.6	
P4912-03	MBHHJ3	3	1.15	8.56	9.71	7.76	77.2	
P4912-04	MBHHJ4	4	1.15	8.81	9.96	8.08	78.7	
P4912-05	MBHHJ4D	5	1.15	8.81	9.96	8.08	78.7	
P4912-06	MBHHJ4S	6	1.15	8.81	9.96	8.08	78.7	
P4912-07	MBHHJ5	7	1.19	8.52	9.71	7.48	73.8	
P4912-08	MBHHJ6	8	1.16	8.80	9.96	7.83	75.8	
P4912-09	MBHHJ7	9	1.13	8.46	9.59	8.2	83.6	
P4912-10	MBHHJ8	10	1.14	8.83	9.97	7.88	76.3	
P4912-11	MBHHJ9	11	1.17	8.57	9.74	7.68	76.0	
P4912-12	MBHHK0	12	1.13	8.45	9.58	7.78	78.7	
P4912-13	MBHHK1	13	1.19	8.42	9.61	7.63	76.5	
P4912-14	MBHHK2	14	1.13	8.60	9.73	7.8	77.6	
P4912-15	MBHHK3	15	1.13	8.45	9.58	7.7	77.8	
P4912-16	MBHHL8	16	1.15	8.59	9.74	7.79	77.3	
P4912-17	MBHHL9	17	1.15	8.48	9.63	8.41	85.6	
P4912-18	MBHHM0	18	1.17	8.69	9.86	8.76	87.3	
P4912-19	MBHHM1	19	1.15	8.74	9.89	8.86	88.2	
P4912-20	MBHHM2	20	1.15	8.38	9.53	7.68	77.9	
P4912-21	MBHHM3	21	1.15	8.54	9.69	7.8	77.9	
P4912-22	MBHHM4	22	1.18	8.56	9.74	7.85	77.9	

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

WORKLIST(Hardcopy Internal Chain)

VB 133510

WorkList Name : %1-p4912 **WorkList ID :** 185579 **Department :** Wet-Chemistry **Date :** 11-19-2024 12:41:16

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P4912-01	MBHHJ1	Solid	Percent Solids	Cool 4 deg C	USEP01	C11	11/14/2024	Chemtech -SO
P4912-02	MBHHJ2	Solid	Percent Solids	Cool 4 deg C	USEP01	C11	11/14/2024	Chemtech -SO
P4912-03	MBHHJ3	Solid	Percent Solids	Cool 4 deg C	USEP01	C11	11/14/2024	Chemtech -SO
P4912-04	MBHHJ4	Solid	Percent Solids	Cool 4 deg C	USEP01	C11	11/14/2024	Chemtech -SO
P4912-05	MBHHJ4D	Solid	Percent Solids	Cool 4 deg C	USEP01	C11	11/14/2024	Chemtech -SO
P4912-06	MBHHJ4S	Solid	Percent Solids	Cool 4 deg C	USEP01	C11	11/14/2024	Chemtech -SO
P4912-07	MBHHJ5	Solid	Percent Solids	Cool 4 deg C	USEP01	C11	11/14/2024	Chemtech -SO
P4912-08	MBHHJ6	Solid	Percent Solids	Cool 4 deg C	USEP01	C11	11/14/2024	Chemtech -SO
P4912-09	MBHHJ7	Solid	Percent Solids	Cool 4 deg C	USEP01	C11	11/14/2024	Chemtech -SO
P4912-10	MBHHJ8	Solid	Percent Solids	Cool 4 deg C	USEP01	C11	11/14/2024	Chemtech -SO
P4912-11	MBHHJ9	Solid	Percent Solids	Cool 4 deg C	USEP01	C11	11/14/2024	Chemtech -SO
P4912-12	MBHHK0	Solid	Percent Solids	Cool 4 deg C	USEP01	C11	11/14/2024	Chemtech -SO
P4912-13	MBHHK1	Solid	Percent Solids	Cool 4 deg C	USEP01	C11	11/14/2024	Chemtech -SO
P4912-14	MBHHK2	Solid	Percent Solids	Cool 4 deg C	USEP01	C11	11/14/2024	Chemtech -SO
P4912-15	MBHHK3	Solid	Percent Solids	Cool 4 deg C	USEP01	C11	11/14/2024	Chemtech -SO
P4912-16	MBHHL8	Solid	Percent Solids	Cool 4 deg C	USEP01	C11	11/14/2024	Chemtech -SO
P4912-17	MBHHL9	Solid	Percent Solids	Cool 4 deg C	USEP01	C11	11/14/2024	Chemtech -SO
P4912-18	MBHHM0	Solid	Percent Solids	Cool 4 deg C	USEP01	C11	11/14/2024	Chemtech -SO
P4912-19	MBHHM1	Solid	Percent Solids	Cool 4 deg C	USEP01	C11	11/14/2024	Chemtech -SO
P4912-20	MBHHM2	Solid	Percent Solids	Cool 4 deg C	USEP01	C11	11/14/2024	Chemtech -SO
P4912-21	MBHHM3	Solid	Percent Solids	Cool 4 deg C	USEP01	C11	11/14/2024	Chemtech -SO

Date/Time 11-19-24 12:50

Raw Sample Received by: [signature]

Raw Sample Relinquished by: [signature]

Date/Time 11-19-24 13:35

Raw Sample Received by: [signature]

Raw Sample Relinquished by: [signature]

WORKLIST(Hardcopy Internal Chain)

WB133510

WorkList Name : %1-p4912 **WorkList ID :** 185579 **Department :** Wet-Chemistry **Date :** 11-19-2024 12:41:16

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P4912-22	MBHHM4	Solid	Percent Solids	Cool 4 deg C	USEP01	C11	11/14/2024	Chemtech -SO

12

Date/Time 11.19.24 12:50

Raw Sample Received by: [signature]

Raw Sample Relinquished by: [signature]

Date/Time 11.19.24 13:35

Raw Sample Received by: [signature]

Raw Sample Relinquished by: [signature]

EPA SAMPLE NO.

MBHHJ1

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.: MBHHJ1

Matrix: SOIL Lab Sample ID: P4912-01

% Solids: 73.6 Date Received: 11/19/2024

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	4000		12/04/2024	2045
7440-36-0	Antimony	5.6	U	12/04/2024	2045
7440-38-2	Arsenic	3.0		12/04/2024	2045
7440-39-3	Barium	64		12/04/2024	2045
7440-41-7	Beryllium	0.29	J	12/04/2024	2045
7440-43-9	Cadmium	0.32	J	12/04/2024	2045
7440-70-2	Calcium	17000		12/04/2024	2045
7440-47-3	Chromium	8.6		12/04/2024	2045
7440-48-4	Cobalt	4.5	J	12/04/2024	2045
7440-50-8	Copper	31	*	12/04/2024	2045
7439-89-6	Iron	10000		12/04/2024	2045
7439-92-1	Lead	93		12/04/2024	2045
7439-95-4	Magnesium	4300		12/04/2024	2045
7439-96-5	Manganese	440		12/04/2024	2045
7440-02-0	Nickel	14		12/04/2024	2045
7440-09-7	Potassium	580		12/04/2024	2045
7782-49-2	Selenium	3.3	U*	12/04/2024	2045
7440-22-4	Silver	0.94	U*	12/04/2024	2045
7440-23-5	Sodium	140	J	12/04/2024	2045
7440-28-0	Thallium	2.3	U	12/04/2024	2045
7440-62-2	Vanadium	11		12/04/2024	2045
7440-66-6	Zinc	170	*	12/04/2024	2045

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

Comments:

EPA SAMPLE NO.

MBHHJ2

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.: MBHHJ1

Matrix: SOIL Lab Sample ID: P4912-02

% Solids: 78.6 Date Received: 11/19/2024

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	4000		12/04/2024	2049
7440-36-0	Antimony	5.1	U	12/04/2024	2049
7440-38-2	Arsenic	2.0		12/04/2024	2049
7440-39-3	Barium	61		12/04/2024	2049
7440-41-7	Beryllium	0.27	J	12/04/2024	2049
7440-43-9	Cadmium	0.30	J	12/04/2024	2049
7440-70-2	Calcium	18000		12/04/2024	2049
7440-47-3	Chromium	7.9		12/04/2024	2049
7440-48-4	Cobalt	4.4		12/04/2024	2049
7440-50-8	Copper	24	*	12/04/2024	2049
7439-89-6	Iron	9400		12/04/2024	2049
7439-92-1	Lead	71		12/04/2024	2049
7439-95-4	Magnesium	4100		12/04/2024	2049
7439-96-5	Manganese	430		12/04/2024	2049
7440-02-0	Nickel	12		12/04/2024	2049
7440-09-7	Potassium	480		12/04/2024	2049
7782-49-2	Selenium	3.0	U*	12/04/2024	2049
7440-22-4	Silver	0.85	U*	12/04/2024	2049
7440-23-5	Sodium	140	J	12/04/2024	2049
7440-28-0	Thallium	2.1	U	12/04/2024	2049
7440-62-2	Vanadium	10		12/04/2024	2049
7440-66-6	Zinc	130	*	12/04/2024	2049

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

Comments:

EPA SAMPLE NO.

MBHHJ3

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.: MBHHJ1

Matrix: SOIL Lab Sample ID: P4912-03

% Solids: 77.2 Date Received: 11/19/2024

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	4100		12/04/2024	2053
7440-36-0	Antimony	0.62	J	12/04/2024	2053
7440-38-2	Arsenic	9.7		12/04/2024	2053
7440-39-3	Barium	86		12/04/2024	2053
7440-41-7	Beryllium	0.32	J	12/04/2024	2053
7440-43-9	Cadmium	0.39	J	12/04/2024	2053
7440-70-2	Calcium	41000		12/04/2024	2053
7440-47-3	Chromium	8.3		12/04/2024	2053
7440-48-4	Cobalt	6.6		12/04/2024	2053
7440-50-8	Copper	22	*	12/04/2024	2053
7439-89-6	Iron	12000		12/04/2024	2053
7439-92-1	Lead	100		12/04/2024	2053
7439-95-4	Magnesium	16000		12/04/2024	2053
7439-96-5	Manganese	670		12/04/2024	2053
7440-02-0	Nickel	15		12/04/2024	2053
7440-09-7	Potassium	550		12/04/2024	2053
7782-49-2	Selenium	3.3	U*	12/04/2024	2053
7440-22-4	Silver	0.94	U*	12/04/2024	2053
7440-23-5	Sodium	200	J	12/04/2024	2053
7440-28-0	Thallium	2.4	U	12/04/2024	2053
7440-62-2	Vanadium	10		12/04/2024	2053
7440-66-6	Zinc	93	*	12/04/2024	2053

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

Comments:

EPA SAMPLE NO.

MBHHJ4

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.: MBHHJ1

Matrix: SOIL Lab Sample ID: P4912-04

% Solids: 78.7 Date Received: 11/19/2024

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	6300		12/02/2024	2010
7440-36-0	Antimony	0.84	J	12/02/2024	2010
7440-38-2	Arsenic	12		12/02/2024	2010
7440-39-3	Barium	270		12/02/2024	2010
7440-41-7	Beryllium	0.45	J	12/02/2024	2010
7440-43-9	Cadmium	2.4		12/02/2024	2010
7440-70-2	Calcium	16000		12/02/2024	2010
7440-47-3	Chromium	17		12/02/2024	2010
7440-48-4	Cobalt	8.6		12/02/2024	2010
7440-50-8	Copper	57	*	12/02/2024	2010
7439-89-6	Iron	20000		12/02/2024	2010
7439-92-1	Lead	530		12/02/2024	2010
7439-95-4	Magnesium	3300		12/02/2024	2010
7439-96-5	Manganese	1100		12/02/2024	2010
7440-02-0	Nickel	18		12/02/2024	2010
7440-09-7	Potassium	720		12/02/2024	2010
7782-49-2	Selenium	3.2	U*	12/02/2024	2010
7440-22-4	Silver	0.92	U*	12/02/2024	2010
7440-23-5	Sodium	200	J	12/02/2024	2010
7440-28-0	Thallium	2.3	U	12/02/2024	2010
7440-62-2	Vanadium	18		12/02/2024	2010
7440-66-6	Zinc	310	*	12/02/2024	2010

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

Comments:

EPA SAMPLE NO.

MBHHJ5

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.: MBHHJ1

Matrix: SOIL Lab Sample ID: P4912-07

% Solids: 73.8 Date Received: 11/19/2024

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	8300		12/04/2024	2056
7440-36-0	Antimony	0.60	J	12/04/2024	2056
7440-38-2	Arsenic	10		12/04/2024	2056
7440-39-3	Barium	270		12/04/2024	2056
7440-41-7	Beryllium	0.68		12/04/2024	2056
7440-43-9	Cadmium	1.0		12/04/2024	2056
7440-70-2	Calcium	17000		12/04/2024	2056
7440-47-3	Chromium	17		12/04/2024	2056
7440-48-4	Cobalt	9.1		12/04/2024	2056
7440-50-8	Copper	55	*	12/04/2024	2056
7439-89-6	Iron	20000		12/04/2024	2056
7439-92-1	Lead	390		12/04/2024	2056
7439-95-4	Magnesium	2700		12/04/2024	2056
7439-96-5	Manganese	1600		12/04/2024	2056
7440-02-0	Nickel	18		12/04/2024	2056
7440-09-7	Potassium	1000		12/04/2024	2056
7782-49-2	Selenium	3.9	U*	12/04/2024	2056
7440-22-4	Silver	1.1	U*	12/04/2024	2056
7440-23-5	Sodium	200	J	12/04/2024	2056
7440-28-0	Thallium	2.8	U	12/04/2024	2056
7440-62-2	Vanadium	19		12/04/2024	2056
7440-66-6	Zinc	220	*	12/04/2024	2056

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

Comments:

EPA SAMPLE NO.

MBHHJ6

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.: MBHHJ1

Matrix: SOIL Lab Sample ID: P4912-08

% Solids: 75.8 Date Received: 11/19/2024

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	7600		12/04/2024	2100
7440-36-0	Antimony	5.9	U	12/04/2024	2100
7440-38-2	Arsenic	7.1		12/04/2024	2100
7440-39-3	Barium	170		12/04/2024	2100
7440-41-7	Beryllium	0.63		12/04/2024	2100
7440-43-9	Cadmium	0.88		12/04/2024	2100
7440-70-2	Calcium	25000		12/04/2024	2100
7440-47-3	Chromium	13		12/04/2024	2100
7440-48-4	Cobalt	9.6		12/04/2024	2100
7440-50-8	Copper	39	*	12/04/2024	2100
7439-89-6	Iron	21000		12/04/2024	2100
7439-92-1	Lead	250		12/04/2024	2100
7439-95-4	Magnesium	5500		12/04/2024	2100
7439-96-5	Manganese	1700		12/04/2024	2100
7440-02-0	Nickel	19		12/04/2024	2100
7440-09-7	Potassium	1100		12/04/2024	2100
7782-49-2	Selenium	3.5	U*	12/04/2024	2100
7440-22-4	Silver	0.99	U*	12/04/2024	2100
7440-23-5	Sodium	210	J	12/04/2024	2100
7440-28-0	Thallium	2.5	U	12/04/2024	2100
7440-62-2	Vanadium	17		12/04/2024	2100
7440-66-6	Zinc	180	*	12/04/2024	2100

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

Comments:

EPA SAMPLE NO.

MBHHJ7

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.: MBHHJ1

Matrix: SOIL Lab Sample ID: P4912-09

% Solids: 83.6 Date Received: 11/19/2024

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		12/04/2024	2104
7440-36-0	Antimony	0.41	J	12/04/2024	2104
7440-38-2	Arsenic	3.0		12/04/2024	2104
7440-39-3	Barium	92		12/04/2024	2104
7440-41-7	Beryllium	0.45		12/04/2024	2104
7440-43-9	Cadmium	0.46		12/04/2024	2104
7440-70-2	Calcium	19000		12/04/2024	2104
7440-47-3	Chromium	7.9		12/04/2024	2104
7440-48-4	Cobalt	6.1		12/04/2024	2104
7440-50-8	Copper	20	*	12/04/2024	2104
7439-89-6	Iron	14000		12/04/2024	2104
7439-92-1	Lead	140		12/04/2024	2104
7439-95-4	Magnesium	3400		12/04/2024	2104
7439-96-5	Manganese	650		12/04/2024	2104
7440-02-0	Nickel	11		12/04/2024	2104
7440-09-7	Potassium	840		12/04/2024	2104
7782-49-2	Selenium	3.1	U*	12/04/2024	2104
7440-22-4	Silver	0.87	U*	12/04/2024	2104
7440-23-5	Sodium	200	J	12/04/2024	2104
7440-28-0	Thallium	2.2	U	12/04/2024	2104
7440-62-2	Vanadium	11		12/04/2024	2104
7440-66-6	Zinc	100	*	12/04/2024	2104

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

Comments:

EPA SAMPLE NO.

MBHHJ8

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.: MBHHJ1

Matrix: SOIL Lab Sample ID: P4912-10

% Solids: 76.3 Date Received: 11/19/2024

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	7000		12/04/2024	2108
7440-36-0	Antimony	0.85	J	12/04/2024	2108
7440-38-2	Arsenic	8.1		12/04/2024	2108
7440-39-3	Barium	240		12/04/2024	2108
7440-41-7	Beryllium	0.65		12/04/2024	2108
7440-43-9	Cadmium	0.84		12/04/2024	2108
7440-70-2	Calcium	31000		12/04/2024	2108
7440-47-3	Chromium	16		12/04/2024	2108
7440-48-4	Cobalt	9.2		12/04/2024	2108
7440-50-8	Copper	38	*	12/04/2024	2108
7439-89-6	Iron	20000		12/04/2024	2108
7439-92-1	Lead	190		12/04/2024	2108
7439-95-4	Magnesium	8400		12/04/2024	2108
7439-96-5	Manganese	1800		12/04/2024	2108
7440-02-0	Nickel	21		12/04/2024	2108
7440-09-7	Potassium	1400		12/04/2024	2108
7782-49-2	Selenium	3.4	U*	12/04/2024	2108
7440-22-4	Silver	0.96	U*	12/04/2024	2108
7440-23-5	Sodium	200	J	12/04/2024	2108
7440-28-0	Thallium	2.4	U	12/04/2024	2108
7440-62-2	Vanadium	17		12/04/2024	2108
7440-66-6	Zinc	480	*	12/04/2024	2108

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

Comments:

EPA SAMPLE NO.

MBHHJ9

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.: MBHHJ1

Matrix: SOIL Lab Sample ID: P4912-11

% Solids: 76 Date Received: 11/19/2024

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	7300		12/04/2024	2112
7440-36-0	Antimony	0.71	J	12/04/2024	2112
7440-38-2	Arsenic	8.0		12/04/2024	2112
7440-39-3	Barium	180		12/04/2024	2112
7440-41-7	Beryllium	0.68		12/04/2024	2112
7440-43-9	Cadmium	0.66		12/04/2024	2112
7440-70-2	Calcium	32000		12/04/2024	2112
7440-47-3	Chromium	15		12/04/2024	2112
7440-48-4	Cobalt	8.4		12/04/2024	2112
7440-50-8	Copper	36	*	12/04/2024	2112
7439-89-6	Iron	19000		12/04/2024	2112
7439-92-1	Lead	190		12/04/2024	2112
7439-95-4	Magnesium	8600		12/04/2024	2112
7439-96-5	Manganese	1300		12/04/2024	2112
7440-02-0	Nickel	20		12/04/2024	2112
7440-09-7	Potassium	1300		12/04/2024	2112
7782-49-2	Selenium	3.8	U*	12/04/2024	2112
7440-22-4	Silver	1.1	U*	12/04/2024	2112
7440-23-5	Sodium	210	J	12/04/2024	2112
7440-28-0	Thallium	2.7	U	12/04/2024	2112
7440-62-2	Vanadium	18		12/04/2024	2112
7440-66-6	Zinc	420	*	12/04/2024	2112

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

Comments:

EPA SAMPLE NO.

MBHHK0

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.: MBHHJ1

Matrix: SOIL Lab Sample ID: P4912-12

% Solids: 78.7 Date Received: 11/19/2024

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	8300		12/04/2024	2116
7440-36-0	Antimony	0.48	J	12/04/2024	2116
7440-38-2	Arsenic	11		12/04/2024	2116
7440-39-3	Barium	270		12/04/2024	2116
7440-41-7	Beryllium	0.83		12/04/2024	2116
7440-43-9	Cadmium	0.84		12/04/2024	2116
7440-70-2	Calcium	13000		12/04/2024	2116
7440-47-3	Chromium	18		12/04/2024	2116
7440-48-4	Cobalt	10		12/04/2024	2116
7440-50-8	Copper	45	*	12/04/2024	2116
7439-89-6	Iron	24000		12/04/2024	2116
7439-92-1	Lead	260		12/04/2024	2116
7439-95-4	Magnesium	3800		12/04/2024	2116
7439-96-5	Manganese	1700		12/04/2024	2116
7440-02-0	Nickel	24		12/04/2024	2116
7440-09-7	Potassium	1200		12/04/2024	2116
7782-49-2	Selenium	3.7	U*	12/04/2024	2116
7440-22-4	Silver	1.1	U*	12/04/2024	2116
7440-23-5	Sodium	250	J	12/04/2024	2116
7440-28-0	Thallium	2.7	U	12/04/2024	2116
7440-62-2	Vanadium	23		12/04/2024	2116
7440-66-6	Zinc	340	*	12/04/2024	2116

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

Comments:

EPA SAMPLE NO.

MBHHK1

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.: MBHHJ1

Matrix: SOIL Lab Sample ID: P4912-13

% Solids: 76.5 Date Received: 11/19/2024

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	7600		12/04/2024	2120
7440-36-0	Antimony	0.58	J	12/04/2024	2120
7440-38-2	Arsenic	14		12/04/2024	2120
7440-39-3	Barium	320		12/04/2024	2120
7440-41-7	Beryllium	0.81		12/04/2024	2120
7440-43-9	Cadmium	0.71		12/04/2024	2120
7440-70-2	Calcium	11000		12/04/2024	2120
7440-47-3	Chromium	13		12/04/2024	2120
7440-48-4	Cobalt	11		12/04/2024	2120
7440-50-8	Copper	47	*	12/04/2024	2120
7439-89-6	Iron	23000		12/04/2024	2120
7439-92-1	Lead	240		12/04/2024	2120
7439-95-4	Magnesium	3000		12/04/2024	2120
7439-96-5	Manganese	2500		12/04/2024	2120
7440-02-0	Nickel	23		12/04/2024	2120
7440-09-7	Potassium	1100		12/04/2024	2120
7782-49-2	Selenium	3.7	U*	12/04/2024	2120
7440-22-4	Silver	1.1	U*	12/04/2024	2120
7440-23-5	Sodium	240	J	12/04/2024	2120
7440-28-0	Thallium	2.6	U	12/04/2024	2120
7440-62-2	Vanadium	20		12/04/2024	2120
7440-66-6	Zinc	220	*	12/04/2024	2120

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

Comments:

EPA SAMPLE NO.

MBHHK2

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.: MBHHJ1

Matrix: SOIL Lab Sample ID: P4912-14

% Solids: 77.6 Date Received: 11/19/2024

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	8000		12/10/2024	2317
7440-36-0	Antimony	5.8	U	12/10/2024	2317
7440-38-2	Arsenic	23		12/10/2024	2317
7440-39-3	Barium	300		12/10/2024	2317
7440-41-7	Beryllium	0.81		12/10/2024	2317
7440-43-9	Cadmium	0.86		12/10/2024	2317
7440-70-2	Calcium	16000		12/10/2024	2317
7440-47-3	Chromium	13		12/10/2024	2317
7440-48-4	Cobalt	16		12/10/2024	2317
7440-50-8	Copper	40	*	12/10/2024	2317
7439-89-6	Iron	28000		12/10/2024	2317
7439-92-1	Lead	150		12/10/2024	2317
7439-95-4	Magnesium	3300		12/10/2024	2317
7439-96-5	Manganese	2600		12/10/2024	2317
7440-02-0	Nickel	24		12/10/2024	2317
7440-09-7	Potassium	1100		12/10/2024	2317
7782-49-2	Selenium	3.4	U*	12/10/2024	2317
7440-22-4	Silver	0.96	U*	12/10/2024	2317
7440-23-5	Sodium	180	J	12/10/2024	2317
7440-28-0	Thallium	1.0	J	12/10/2024	2317
7440-62-2	Vanadium	22		12/10/2024	2317
7440-66-6	Zinc	130	*	12/10/2024	2317

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

Comments:

EPA SAMPLE NO.

MBHHK3

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.: MBHHJ1

Matrix: SOIL Lab Sample ID: P4912-15

% Solids: 77.8 Date Received: 11/19/2024

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		12/10/2024	2321
7440-36-0	Antimony	7.0	U	12/10/2024	2321
7440-38-2	Arsenic	18		12/10/2024	2321
7440-39-3	Barium	300		12/10/2024	2321
7440-41-7	Beryllium	0.69		12/10/2024	2321
7440-43-9	Cadmium	0.71		12/10/2024	2321
7440-70-2	Calcium	19000		12/10/2024	2321
7440-47-3	Chromium	12		12/10/2024	2321
7440-48-4	Cobalt	16		12/10/2024	2321
7440-50-8	Copper	25	*	12/10/2024	2321
7439-89-6	Iron	28000		12/10/2024	2321
7439-92-1	Lead	54		12/10/2024	2321
7439-95-4	Magnesium	5100		12/10/2024	2321
7439-96-5	Manganese	3000		12/10/2024	2321
7440-02-0	Nickel	22		12/10/2024	2321
7440-09-7	Potassium	1100		12/10/2024	2321
7782-49-2	Selenium	4.1	U*	12/10/2024	2321
7440-22-4	Silver	1.2	U*	12/10/2024	2321
7440-23-5	Sodium	580	U	12/10/2024	2321
7440-28-0	Thallium	1.2	J	12/10/2024	2321
7440-62-2	Vanadium	24		12/10/2024	2321
7440-66-6	Zinc	85	*	12/10/2024	2321

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

Comments:

EPA SAMPLE NO.

MBHHL8

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.: MBHHJ1

Matrix: SOIL Lab Sample ID: P4912-16

% Solids: 77.3 Date Received: 11/19/2024

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	8100		12/10/2024	2324
7440-36-0	Antimony	0.45	J	12/10/2024	2324
7440-38-2	Arsenic	15		12/10/2024	2324
7440-39-3	Barium	190		12/10/2024	2324
7440-41-7	Beryllium	0.74		12/10/2024	2324
7440-43-9	Cadmium	1.2		12/10/2024	2324
7440-70-2	Calcium	6500		12/10/2024	2324
7440-47-3	Chromium	17		12/10/2024	2324
7440-48-4	Cobalt	15		12/10/2024	2324
7440-50-8	Copper	47	*	12/10/2024	2324
7439-89-6	Iron	23000		12/10/2024	2324
7439-92-1	Lead	380		12/10/2024	2324
7439-95-4	Magnesium	2500		12/10/2024	2324
7439-96-5	Manganese	1200		12/10/2024	2324
7440-02-0	Nickel	25		12/10/2024	2324
7440-09-7	Potassium	990		12/10/2024	2324
7782-49-2	Selenium	0.79	J*	12/10/2024	2324
7440-22-4	Silver	0.94	U*	12/10/2024	2324
7440-23-5	Sodium	470	U	12/10/2024	2324
7440-28-0	Thallium	2.4	U	12/10/2024	2324
7440-62-2	Vanadium	21		12/10/2024	2324
7440-66-6	Zinc	280	*	12/10/2024	2324

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

Comments:

EPA SAMPLE NO.

MBHHL9

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.: MBHHJ1

Matrix: SOIL Lab Sample ID: P4912-17

% Solids: 85.6 Date Received: 11/19/2024

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	8400		12/10/2024	2328
7440-36-0	Antimony	5.8	U	12/10/2024	2328
7440-38-2	Arsenic	16		12/10/2024	2328
7440-39-3	Barium	200		12/10/2024	2328
7440-41-7	Beryllium	0.71		12/10/2024	2328
7440-43-9	Cadmium	1.3		12/10/2024	2328
7440-70-2	Calcium	9900		12/10/2024	2328
7440-47-3	Chromium	18		12/10/2024	2328
7440-48-4	Cobalt	13		12/10/2024	2328
7440-50-8	Copper	50	*	12/10/2024	2328
7439-89-6	Iron	18000		12/10/2024	2328
7439-92-1	Lead	440		12/10/2024	2328
7439-95-4	Magnesium	4300		12/10/2024	2328
7439-96-5	Manganese	1200		12/10/2024	2328
7440-02-0	Nickel	22		12/10/2024	2328
7440-09-7	Potassium	900		12/10/2024	2328
7782-49-2	Selenium	3.4	U*	12/10/2024	2328
7440-22-4	Silver	0.97	U*	12/10/2024	2328
7440-23-5	Sodium	490	U	12/10/2024	2328
7440-28-0	Thallium	2.4	U	12/10/2024	2328
7440-62-2	Vanadium	21		12/10/2024	2328
7440-66-6	Zinc	300	*	12/10/2024	2328

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

Comments:

EPA SAMPLE NO.

MBHHM0

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.: MBHHJ1

Matrix: SOIL Lab Sample ID: P4912-18

% Solids: 87.3 Date Received: 11/19/2024

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	8600		12/10/2024	2332
7440-36-0	Antimony	5.9	U	12/10/2024	2332
7440-38-2	Arsenic	23		12/10/2024	2332
7440-39-3	Barium	240		12/10/2024	2332
7440-41-7	Beryllium	0.80		12/10/2024	2332
7440-43-9	Cadmium	2.2		12/10/2024	2332
7440-70-2	Calcium	9700		12/10/2024	2332
7440-47-3	Chromium	16		12/10/2024	2332
7440-48-4	Cobalt	14		12/10/2024	2332
7440-50-8	Copper	54	*	12/10/2024	2332
7439-89-6	Iron	24000		12/10/2024	2332
7439-92-1	Lead	430		12/10/2024	2332
7439-95-4	Magnesium	2900		12/10/2024	2332
7439-96-5	Manganese	1300		12/10/2024	2332
7440-02-0	Nickel	24		12/10/2024	2332
7440-09-7	Potassium	930		12/10/2024	2332
7782-49-2	Selenium	3.4	U*	12/10/2024	2332
7440-22-4	Silver	0.98	U*	12/10/2024	2332
7440-23-5	Sodium	490	U	12/10/2024	2332
7440-28-0	Thallium	2.5	U	12/10/2024	2332
7440-62-2	Vanadium	22		12/10/2024	2332
7440-66-6	Zinc	340	*	12/10/2024	2332

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

Comments:

EPA SAMPLE NO.

MBHHM1

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.: MBHHJ1

Matrix: SOIL Lab Sample ID: P4912-19

% Solids: 88.2 Date Received: 11/19/2024

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	8600		12/10/2024	2336
7440-36-0	Antimony	5.2	U	12/10/2024	2336
7440-38-2	Arsenic	18		12/10/2024	2336
7440-39-3	Barium	150		12/10/2024	2336
7440-41-7	Beryllium	0.72		12/10/2024	2336
7440-43-9	Cadmium	1.1		12/10/2024	2336
7440-70-2	Calcium	7400		12/10/2024	2336
7440-47-3	Chromium	14		12/10/2024	2336
7440-48-4	Cobalt	13		12/10/2024	2336
7440-50-8	Copper	34	*	12/10/2024	2336
7439-89-6	Iron	20000		12/10/2024	2336
7439-92-1	Lead	220		12/10/2024	2336
7439-95-4	Magnesium	2400		12/10/2024	2336
7439-96-5	Manganese	1400		12/10/2024	2336
7440-02-0	Nickel	19		12/10/2024	2336
7440-09-7	Potassium	820		12/10/2024	2336
7782-49-2	Selenium	3.1	U*	12/10/2024	2336
7440-22-4	Silver	0.87	U*	12/10/2024	2336
7440-23-5	Sodium	440	U	12/10/2024	2336
7440-28-0	Thallium	2.2	U	12/10/2024	2336
7440-62-2	Vanadium	21		12/10/2024	2336
7440-66-6	Zinc	200	*	12/10/2024	2336

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

Comments:

EPA SAMPLE NO.

MBHHM2

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.: MBHHJ1

Matrix: SOIL Lab Sample ID: P4912-20

% Solids: 77.9 Date Received: 11/19/2024

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		12/10/2024	2340
7440-36-0	Antimony	6.5	U	12/10/2024	2340
7440-38-2	Arsenic	16		12/10/2024	2340
7440-39-3	Barium	160		12/10/2024	2340
7440-41-7	Beryllium	0.59		12/10/2024	2340
7440-43-9	Cadmium	0.69		12/10/2024	2340
7440-70-2	Calcium	36000		12/10/2024	2340
7440-47-3	Chromium	14		12/10/2024	2340
7440-48-4	Cobalt	12		12/10/2024	2340
7440-50-8	Copper	38	*	12/10/2024	2340
7439-89-6	Iron	18000		12/10/2024	2340
7439-92-1	Lead	290		12/10/2024	2340
7439-95-4	Magnesium	3100		12/10/2024	2340
7439-96-5	Manganese	1400		12/10/2024	2340
7440-02-0	Nickel	15		12/10/2024	2340
7440-09-7	Potassium	820		12/10/2024	2340
7782-49-2	Selenium	3.8	U*	12/10/2024	2340
7440-22-4	Silver	1.1	U*	12/10/2024	2340
7440-23-5	Sodium	540	U	12/10/2024	2340
7440-28-0	Thallium	2.7	U	12/10/2024	2340
7440-62-2	Vanadium	17		12/10/2024	2340
7440-66-6	Zinc	180	*	12/10/2024	2340

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

Comments:

EPA SAMPLE NO.

MBHHM3

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.: MBHHJ1

Matrix: SOIL Lab Sample ID: P4912-21

% Solids: 77.9 Date Received: 11/19/2024

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	9600		12/10/2024	2343
7440-36-0	Antimony	6.4	U	12/10/2024	2343
7440-38-2	Arsenic	13		12/10/2024	2343
7440-39-3	Barium	130		12/10/2024	2343
7440-41-7	Beryllium	0.74		12/10/2024	2343
7440-43-9	Cadmium	0.51	J	12/10/2024	2343
7440-70-2	Calcium	4600		12/10/2024	2343
7440-47-3	Chromium	12		12/10/2024	2343
7440-48-4	Cobalt	13		12/10/2024	2343
7440-50-8	Copper	23	*	12/10/2024	2343
7439-89-6	Iron	22000		12/10/2024	2343
7439-92-1	Lead	97		12/10/2024	2343
7439-95-4	Magnesium	2300		12/10/2024	2343
7439-96-5	Manganese	1700		12/10/2024	2343
7440-02-0	Nickel	17		12/10/2024	2343
7440-09-7	Potassium	740		12/10/2024	2343
7782-49-2	Selenium	3.7	U*	12/10/2024	2343
7440-22-4	Silver	1.1	U*	12/10/2024	2343
7440-23-5	Sodium	530	U	12/10/2024	2343
7440-28-0	Thallium	2.7	U	12/10/2024	2343
7440-62-2	Vanadium	23		12/10/2024	2343
7440-66-6	Zinc	75	*	12/10/2024	2343

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

Comments:

EPA SAMPLE NO.

MBHHM4

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.: MBHHJ1

Matrix: SOIL Lab Sample ID: P4912-22

% Solids: 77.9 Date Received: 11/19/2024

Analytical Method: ICP_AES

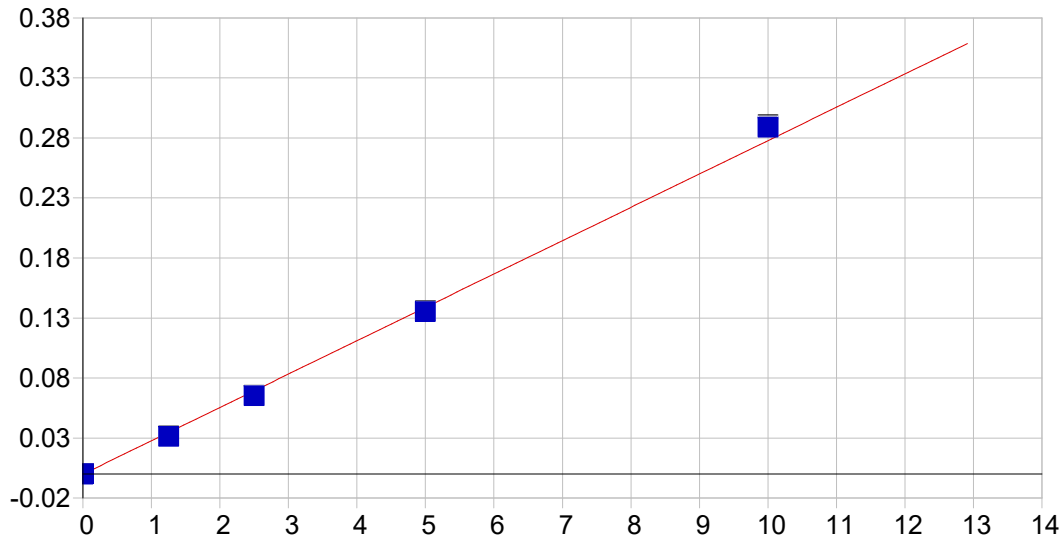
Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7429-90-5	Aluminum	7000		12/10/2024	2347
7440-36-0	Antimony	5.5	U	12/10/2024	2347
7440-38-2	Arsenic	11		12/10/2024	2347
7440-39-3	Barium	180		12/10/2024	2347
7440-41-7	Beryllium	0.63		12/10/2024	2347
7440-43-9	Cadmium	0.96		12/10/2024	2347
7440-70-2	Calcium	35000		12/10/2024	2347
7440-47-3	Chromium	14		12/10/2024	2347
7440-48-4	Cobalt	12		12/10/2024	2347
7440-50-8	Copper	36	*	12/10/2024	2347
7439-89-6	Iron	18000		12/10/2024	2347
7439-92-1	Lead	180		12/10/2024	2347
7439-95-4	Magnesium	10000		12/10/2024	2347
7439-96-5	Manganese	1400		12/10/2024	2347
7440-02-0	Nickel	20		12/10/2024	2347
7440-09-7	Potassium	1400		12/10/2024	2347
7782-49-2	Selenium	3.2	U*	12/10/2024	2347
7440-22-4	Silver	0.92	U*	12/10/2024	2347
7440-23-5	Sodium	110	J	12/10/2024	2347
7440-28-0	Thallium	0.97	J	12/10/2024	2347
7440-62-2	Vanadium	17		12/10/2024	2347
7440-66-6	Zinc	410	*	12/10/2024	2347

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

Comments:

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5



As 189.042 {479}

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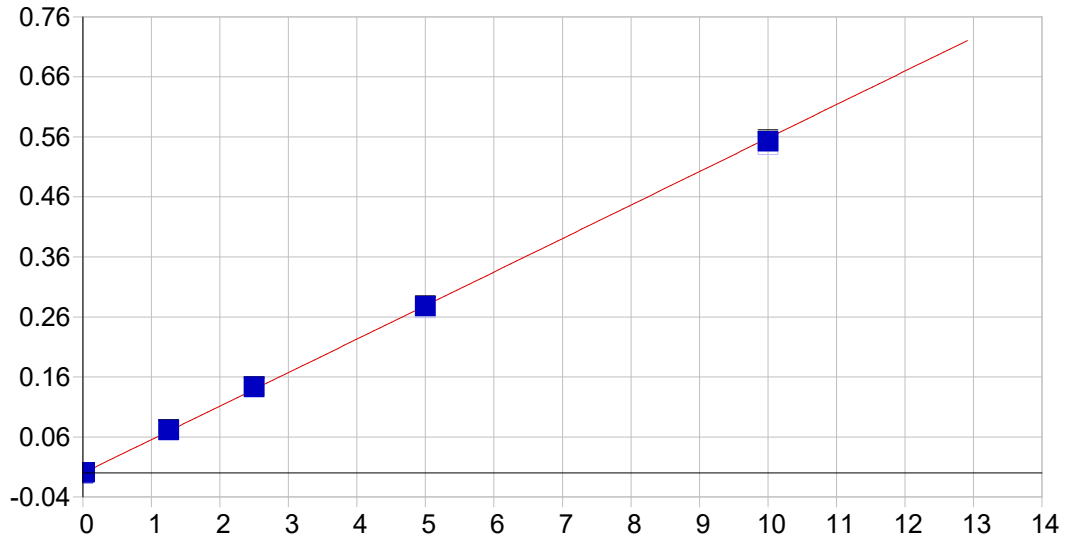
A0 (Offset):	-0.000161	Re-Slope:	1.000000
A1 (Gain):	0.027796	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.998969	Status:	OK.
Std Error of Est:	0.000021		
Predicted MDL:	0.006988		
Predicted MQL:	0.023295		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00016	.000	1
S1	.01000	.01152	.002	15.2	.00016	.000	1
S2	1.2500	1.1325	-.118	-9.40	.03146	.000	1
S3	2.5000	2.3500	-.150	-6.00	.06545	.000	1
S4	5.0000	4.8721	-.128	-2.56	.13585	.000	1
S5	10.000	10.394	.394	3.94	.28991	.001	1

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5



Tl 190.856 {477}

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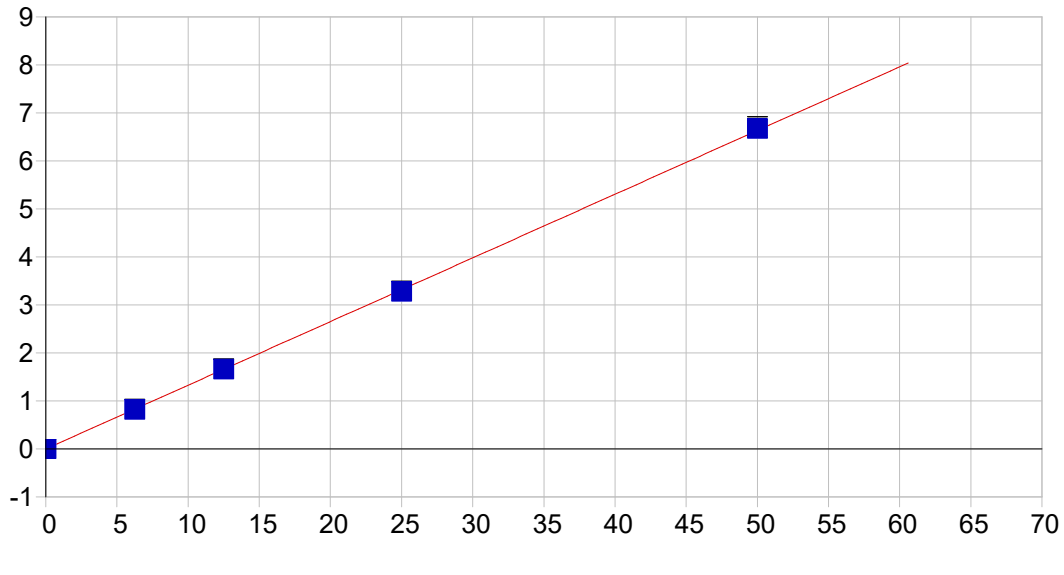
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999854	Status:	OK.
Std Error of Est:	0.000025		
Predicted MDL:	0.003872		
Predicted MQL:	0.012908		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00001	-.000	.000	-.00037	.000	1
S1	.02500	.02969	.005	18.8	.00125	.000	1
S2	1.2500	1.2907	.041	3.26	.07095	.000	1
S3	2.5000	2.5726	.073	2.90	.14178	.000	1
S4	5.0000	4.9805	-.020	-.390	.27474	.000	1
S5	10.000	9.9016	-.098	-.984	.54653	.002	1

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5



Pb 220.353 {453}

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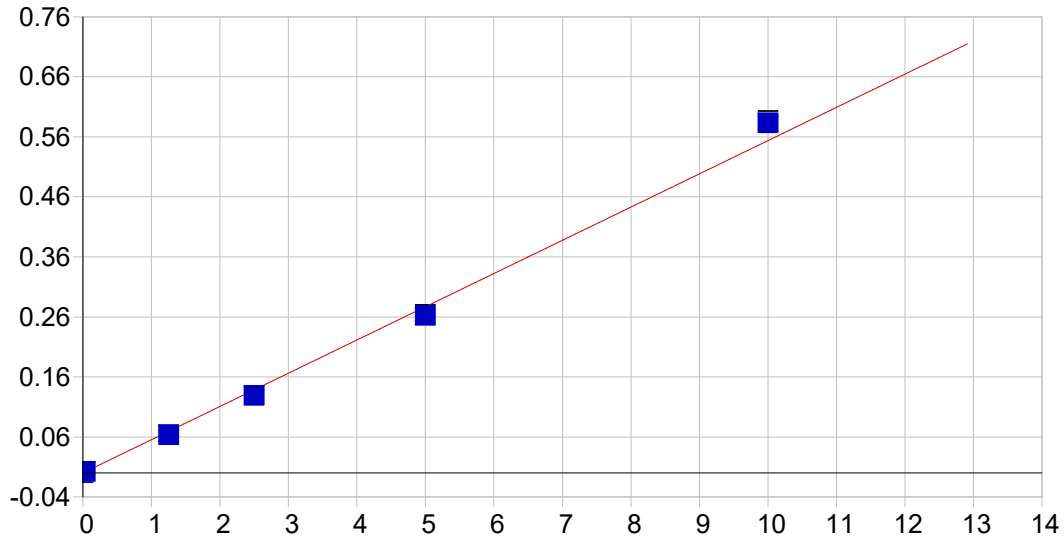
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999970	Status:	OK.
Std Error of Est:	0.000039		
Predicted MDL:	0.003468		
Predicted MQL:	0.011559		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	-.00020	.000	1
S1	.01000	.00809	-.002	-19.1	.00087	.001	1
S2	6.2500	6.1953	-.055	-.875	.82147	.002	1
S3	12.500	12.529	.029	.233	1.6615	.004	1
S4	25.000	24.728	-.272	-1.09	3.2794	.008	1
S5	50.000	50.299	.299	.598	6.6709	.042	1

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5



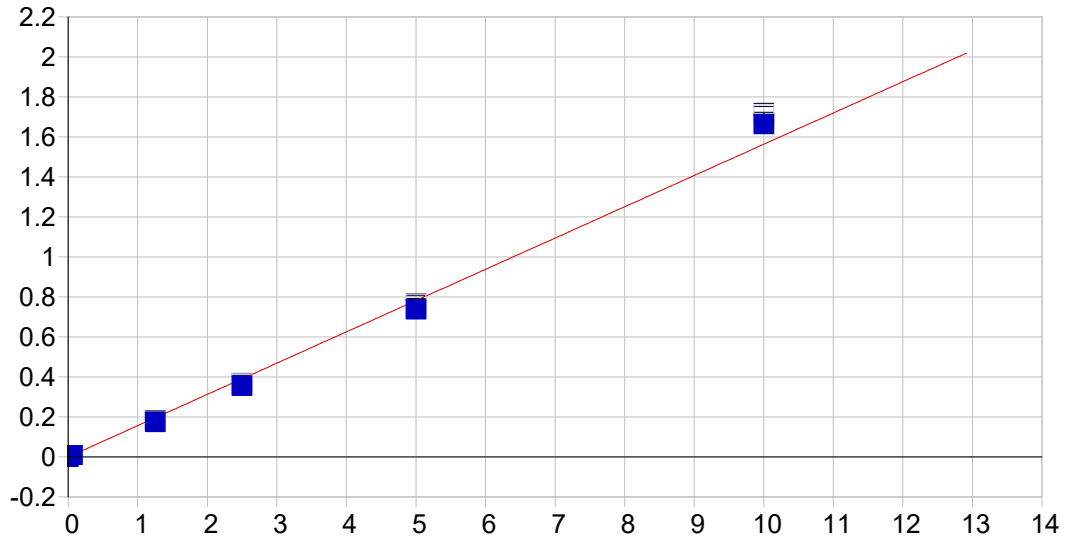
Se 196.090 {472}

Date of Fit:	12/02/2024 7:50:46	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000014	Re-Slope:	1.000000
A1 (Gain):	0.055397	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.998329	Status:	OK.
Std Error of Est:	0.000100		
Predicted MDL:	0.006982		
Predicted MQL:	0.023275		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	-.00001	.000	1
S1	.03500	.03747	.002	7.07	.00206	.000	1
S2	1.2500	1.1478	-.102	-8.18	.06344	.000	1
S3	2.5000	2.3287	-.171	-6.85	.12873	.000	1
S4	5.0000	4.7365	-.263	-5.27	.26185	.001	1
S5	10.000	10.534	.534	5.34	.58251	.004	1

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

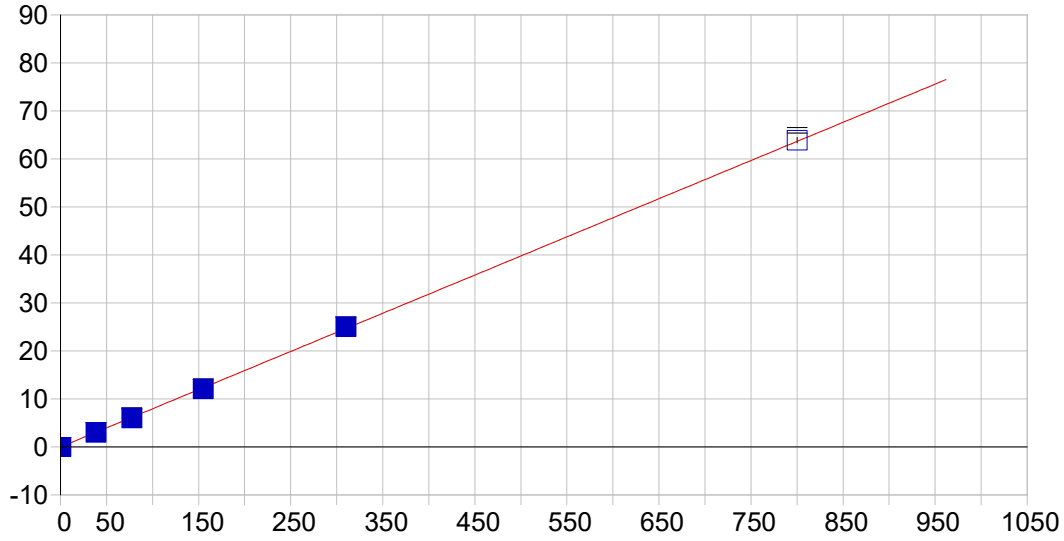


Sb 206.833 {463}

Date of Fit:	12/02/2024 7:50:46	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000028	Re-Slope:	1.000000
A1 (Gain):	0.156333	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.997678	Status:	OK.
Std Error of Est:	0.000452		
Predicted MDL:	0.002909		
Predicted MQL:	0.009698		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00001	.000	.000	-.00003	.000	1
S1	.06000	.05748	-.003	-4.20	.00896	.000	1
S2	1.2500	1.1126	-.137	-11.0	.17967	.000	1
S3	2.5000	2.2741	-.226	-9.04	.36703	.000	1
S4	5.0000	4.7206	-.279	-5.59	.76102	.004	1
S5	10.000	10.645	.645	6.45	1.7103	.009	1



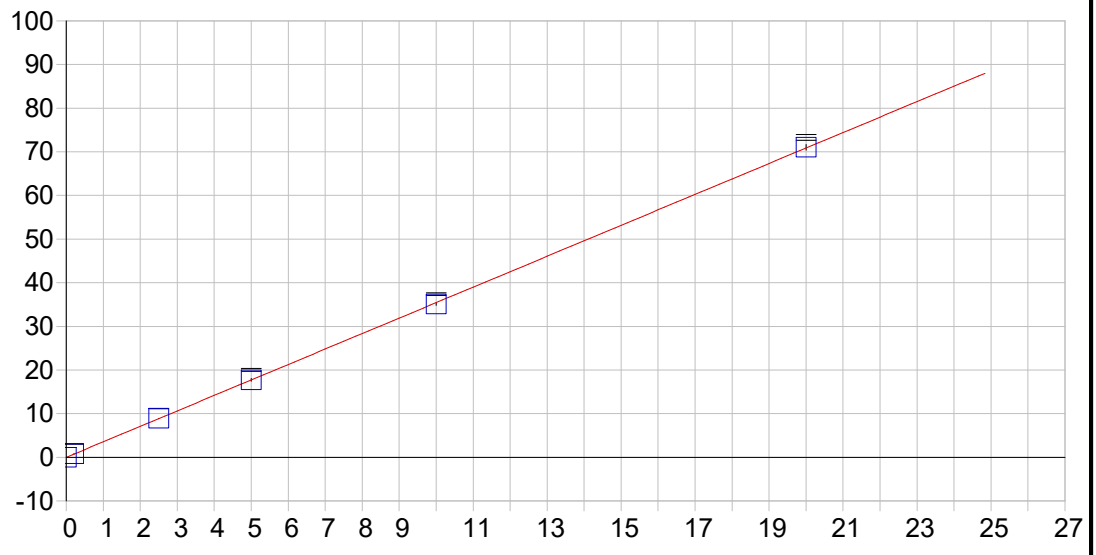
Al 396.152 { 85}

Date of Fit: 12/02/2024 7:50:46 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset):	-0.002282	Re-Slope:	1.000000
A1 (Gain):	0.079563	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999908	Status:	OK.
Std Error of Est:	0.000672		
Predicted MDL:	0.012315		
Predicted MQL:	0.041051		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00001	.000	.000	-.00228	.000	1
S1	.20000	.20101	.001	.507	.01374	.000	1
S2	38.750	37.524	-1.23	-3.16	2.9870	.005	1
S3	77.500	75.131	-2.37	-3.06	5.9828	.116	1
S4	155.00	151.50	-3.50	-2.26	12.066	.020	1
S5	310.00	314.06	4.06	1.31	25.015	.070	1
S6	800.00	803.04	3.04	.381	63.890	.560	1

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5



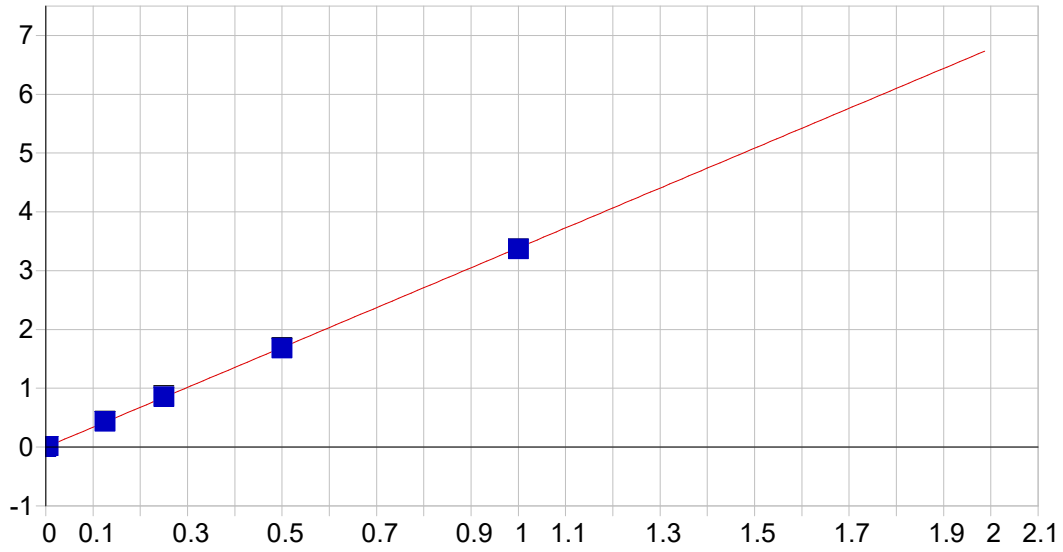
Ba 493.409 { 68}

Date of Fit:	12/02/2024 7:50:46	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.002067	Re-Slope:	1.000000
A1 (Gain):	3.543739	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999940	Status:	OK.
Std Error of Est:	0.004133		
Predicted MDL:	0.000645		
Predicted MQL:	0.002149		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00003	-.000	.000	-.00216	.003	1
S1	.20000	.22667	.027	13.3	.80120	.003	1
S2	2.5000	2.5123	.012	.492	8.9009	.024	1
S3	5.0000	5.0069	.007	.138	17.741	.342	1
S4	10.000	9.9100	-.090	-.900	35.116	.279	1
S5	20.000	20.044	.044	.221	71.029	.686	1

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5



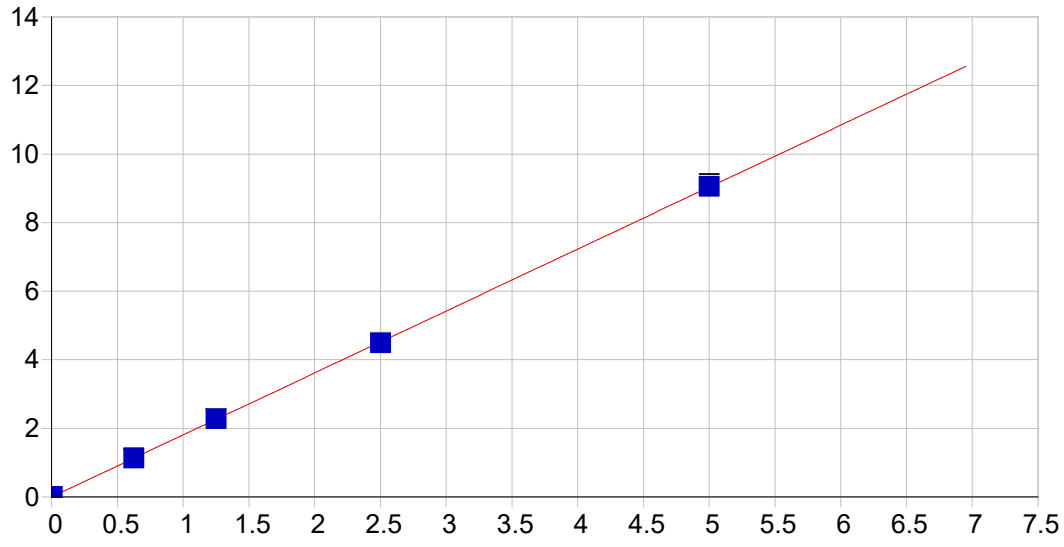
Be 234.861 {144}

Date of Fit:	12/02/2024 7:50:46	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000953	Re-Slope:	1.000000
A1 (Gain):	3.389273	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999861	Status:	OK.
Std Error of Est:	0.000211		
Predicted MDL:	0.000119		
Predicted MQL:	0.000396		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00096	.000	1
S1	.00500	.00610	.001	22.1	.01972	.000	1
S2	.12500	.12961	.005	3.69	.43766	.001	1
S3	.25000	.25349	.003	1.39	.85682	.013	1
S4	.50000	.49664	-.003	-.671	1.6796	.007	1
S5	1.0000	.99415	-.006	-.585	3.3630	.003	1

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5



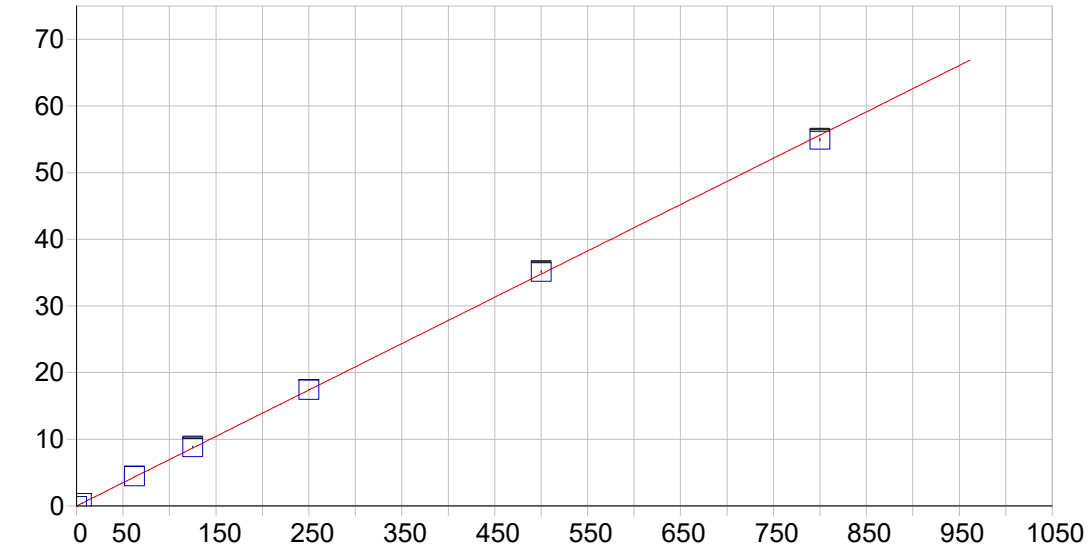
Cd 214.438 {457}

Date of Fit:	12/02/2024 7:50:46	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000353	Re-Slope:	1.000000
A1 (Gain):	1.807009	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999986	Status:	OK.
Std Error of Est:	0.000081		
Predicted MDL:	0.000154		
Predicted MQL:	0.000512		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00035	.000	1
S1	.00500	.00556	.001	11.1	.01040	.000	1
S2	.62500	.62390	-.001	-.176	1.1305	.003	1
S3	1.2500	1.2592	.009	.739	2.2812	.004	1
S4	2.5000	2.4825	-.017	-.698	4.4972	.009	1
S5	5.0000	5.0088	.009	.175	9.0729	.064	1

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5



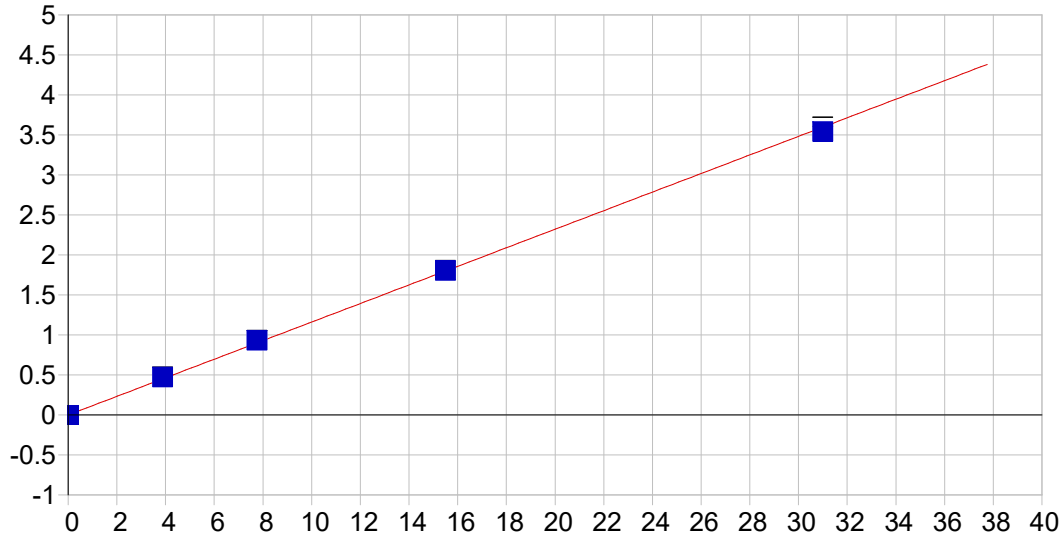
Ca 373.690 { 90}

Date of Fit:	12/02/2024 7:50:46	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.004286	Re-Slope:	1.000000
A1 (Gain):	0.069559	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999897	Status:	OK.
Std Error of Est:	0.003490		
Predicted MDL:	0.012468		
Predicted MQL:	0.041559		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00097	-.001	.000	.00422	.000	1
S1	5.0000	5.7804	.780	15.6	.40637	.001	1
S2	62.500	63.920	1.42	2.27	4.4505	.013	1
S3	125.00	126.73	1.73	1.39	8.8199	.167	1
S4	250.00	250.57	.568	.227	17.434	.028	1
S5	500.00	505.39	5.39	1.08	35.159	.141	1
S6	800.00	790.11	-9.89	-1.24	54.964	.229	1

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5



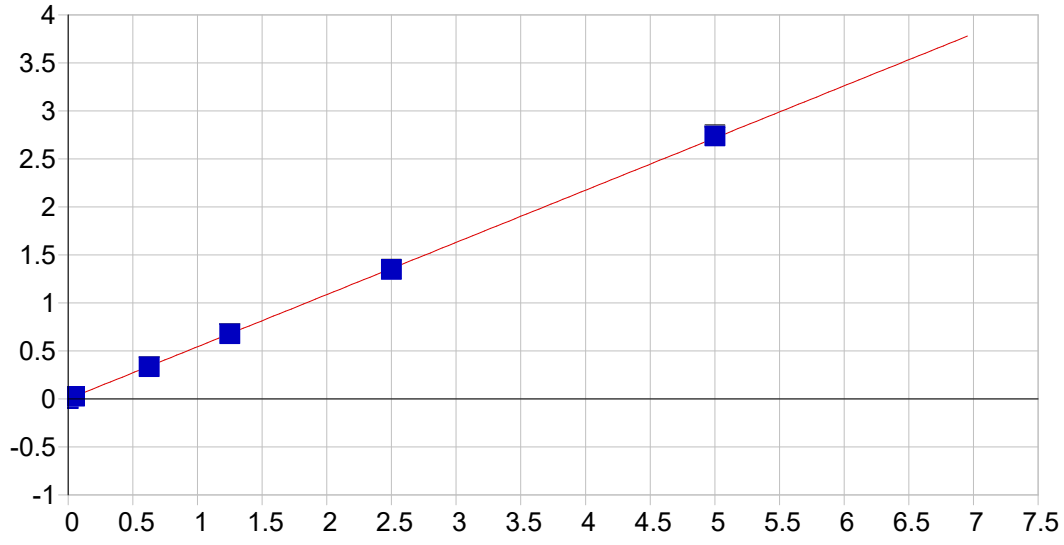
Cr 267.716 {126}

Date of Fit:	12/02/2024 7:50:46	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000202	Re-Slope:	1.000000
A1 (Gain):	0.116066	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999752	Status:	OK.
Std Error of Est:	0.000076		
Predicted MDL:	0.001160		
Predicted MQL:	0.003867		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00020	.000	1
S1	.01000	.01256	.003	25.6	.00126	.000	1
S2	3.8750	4.0724	.197	5.10	.47298	.001	1
S3	7.7500	8.0253	.275	3.55	.93227	.001	1
S4	15.500	15.535	.035	.224	1.8049	.002	1
S5	31.000	30.490	-.510	-1.65	3.5427	.058	1

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5



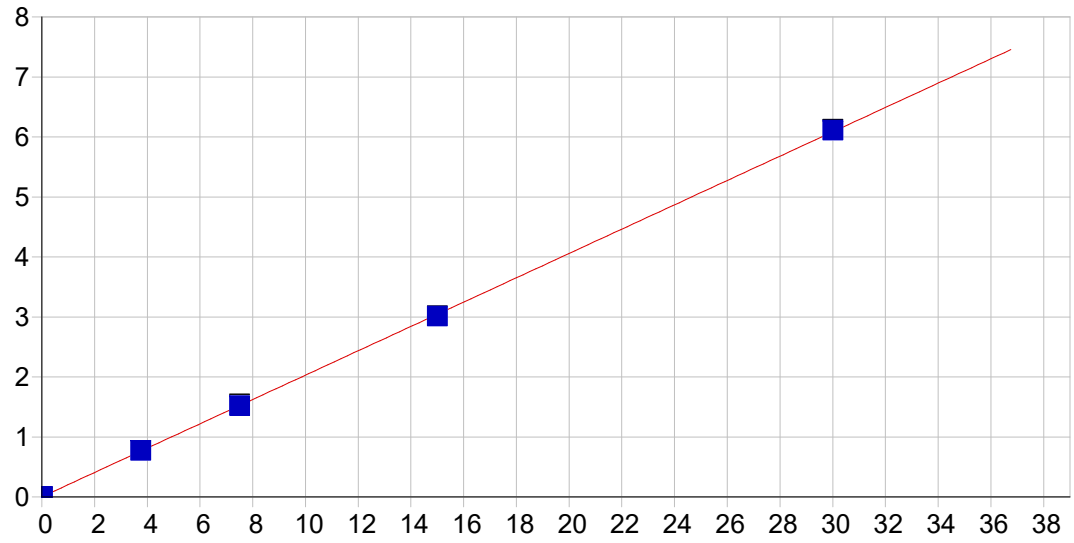
Co 228.616 {448}

Date of Fit:	12/02/2024 7:50:46	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000318	Re-Slope:	1.000000
A1 (Gain):	0.543535	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999963	Status:	OK.
Std Error of Est:	0.000125		
Predicted MDL:	0.000588		
Predicted MQL:	0.001961		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00032	.000	1
S1	.05000	.05235	.002	4.70	.02823	.000	1
S2	.62500	.61444	-.011	-1.69	.33407	.001	1
S3	1.2500	1.2469	-.003	-.252	.67822	.001	1
S4	2.5000	2.4782	-.022	-.872	1.3483	.002	1
S5	5.0000	5.0332	.033	.663	2.7387	.013	1

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5



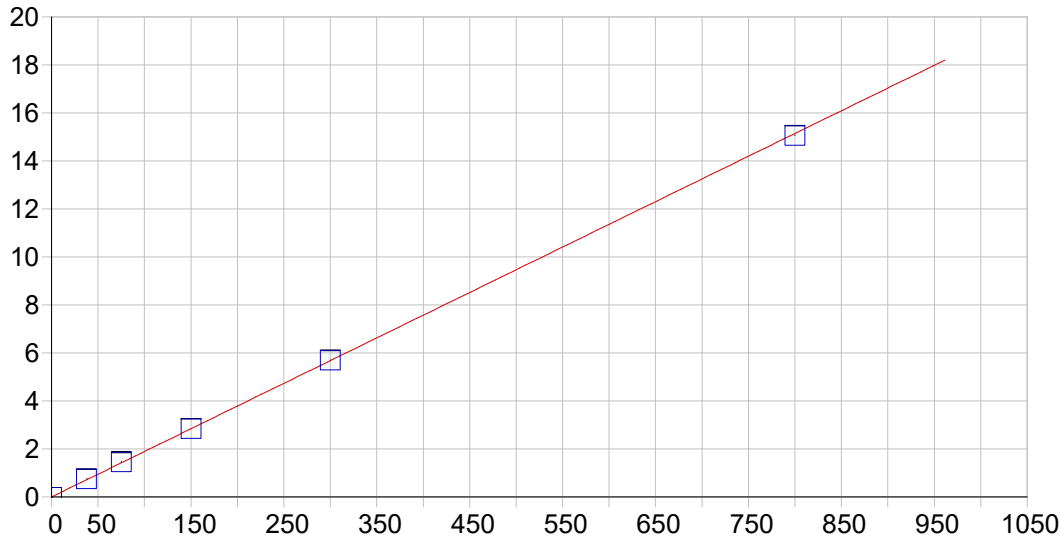
Cu 324.754 {104}

Date of Fit:	12/02/2024 7:50:46	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.001848	Re-Slope:	1.000000
A1 (Gain):	0.202778	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999974	Status:	OK.
Std Error of Est:	0.000068		
Predicted MDL:	0.002816		
Predicted MQL:	0.009388		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00185	.000	1
S1	.02500	.02738	.002	9.52	.00740	.000	1
S2	3.7500	3.7957	.046	1.22	.77105	.002	1
S3	7.5000	7.4822	-.018	-.238	1.5181	.027	1
S4	15.000	14.844	-.156	-1.04	3.0100	.001	1
S5	30.000	30.125	.125	.418	6.1067	.018	1

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5



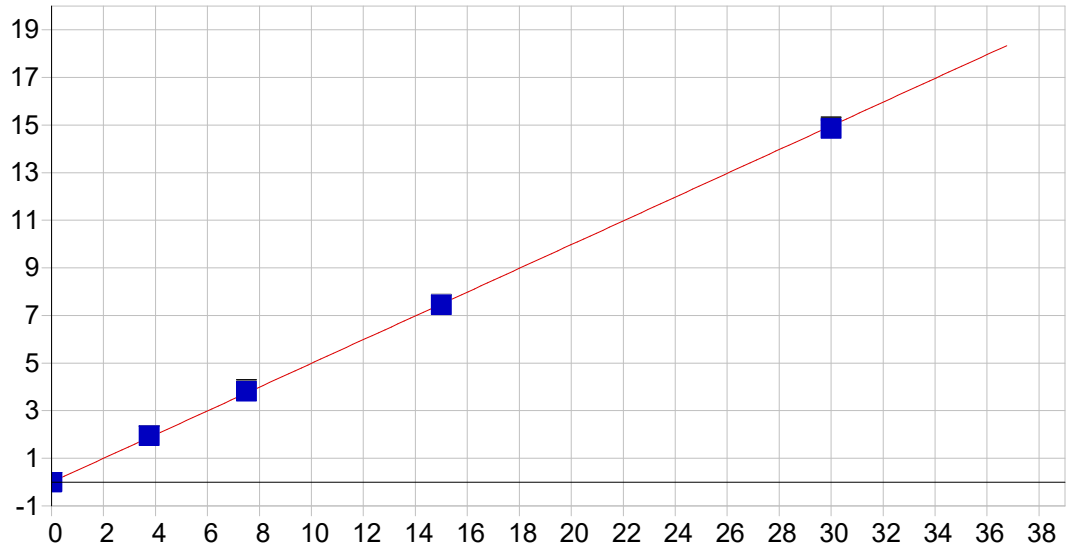
Fe 259.837 {130}

Date of Fit:	12/02/2024 7:50:46	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000261	Re-Slope:	1.000000
A1 (Gain):	0.018929	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999948	Status:	OK.
Std Error of Est:	0.000085		
Predicted MDL:	0.013284		
Predicted MQL:	0.044282		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00002	-.000	.000	.00026	.000	1
S1	.10000	.10966	.010	9.66	.00234	.000	1
S2	37.500	39.149	1.65	4.40	.74130	.001	1
S3	75.000	76.780	1.78	2.37	1.4536	.031	1
S4	150.00	150.27	.271	.181	2.8447	.008	1
S5	300.00	300.75	.751	.250	5.6930	.009	1
S6	800.00	795.54	-4.46	-.558	15.059	.009	1

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5



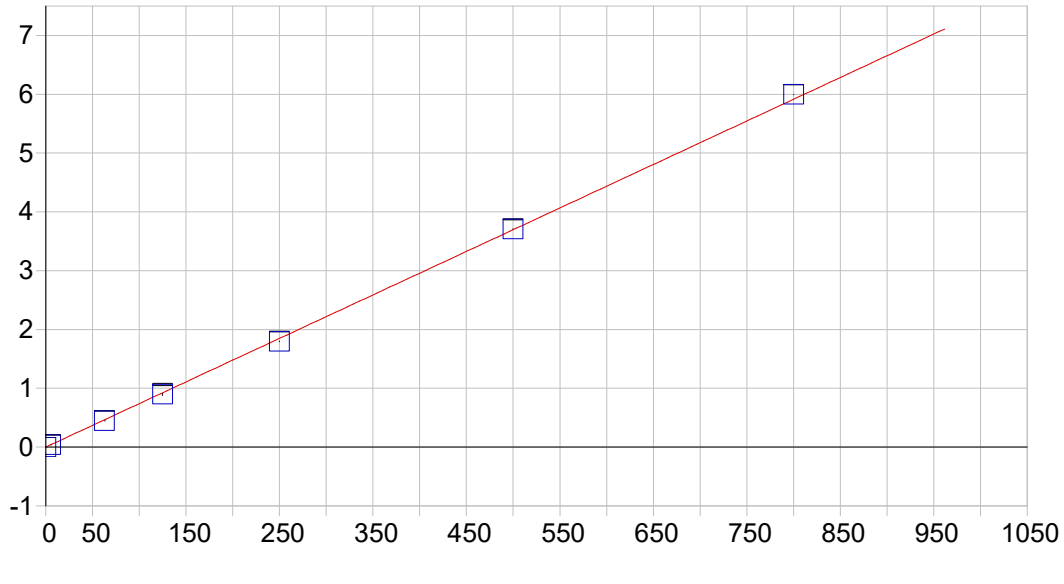
Mn 257.610 {131}

Date of Fit:	12/02/2024 7:50:46	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000165	Re-Slope:	1.000000
A1 (Gain):	0.498854	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999905	Status:	OK.
Std Error of Est:	0.000245		
Predicted MDL:	0.000589		
Predicted MQL:	0.001963		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00017	.000	1
S1	.01500	.01901	.004	26.7	.00933	.000	1
S2	3.7500	3.8885	.138	3.69	1.9399	.007	1
S3	7.5000	7.6411	.141	1.88	3.8122	.072	1
S4	15.000	14.933	-.067	-.448	7.4502	.020	1
S5	30.000	29.784	-.216	-.721	14.860	.063	1

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5



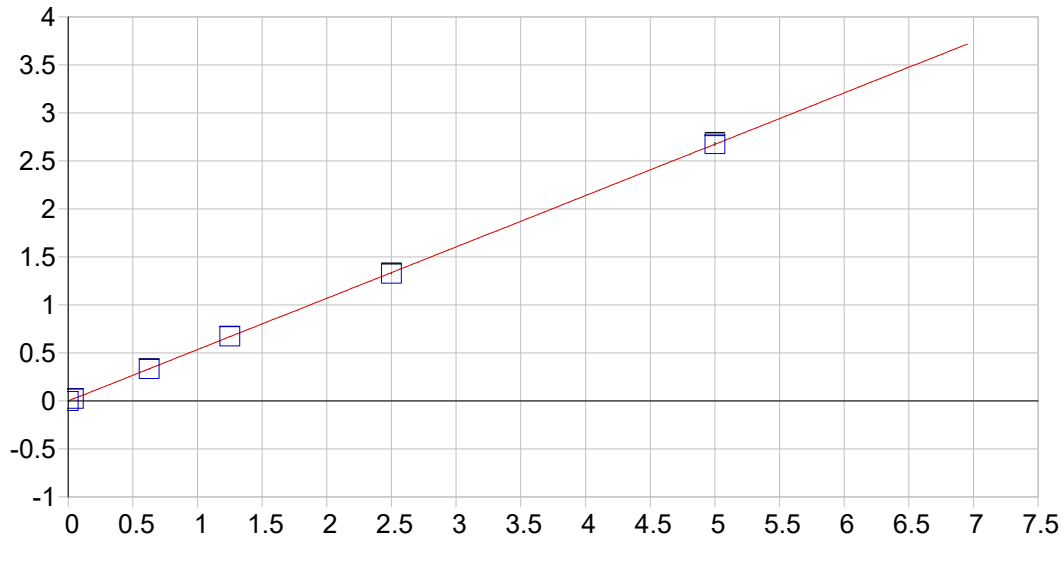
Mg 279.079 {121}

Date of Fit:	12/02/2024 7:50:46	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000095	Re-Slope:	1.000000
A1 (Gain):	0.007394	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999839	Status:	OK.
Std Error of Est:	0.000464		
Predicted MDL:	0.040506		
Predicted MQL:	0.135019		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00006	-.000	.000	-.00010	.000	1
S1	5.0000	5.4224	.422	8.45	.04000	.001	1
S2	62.500	60.584	-1.92	-3.07	.44787	.001	1
S3	125.00	121.26	-3.74	-2.99	.89650	.021	1
S4	250.00	242.94	-7.06	-2.82	1.7962	.005	1
S5	500.00	501.21	1.21	.242	3.7059	.008	1
S6	800.00	811.09	11.1	1.39	5.9972	.003	1

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5



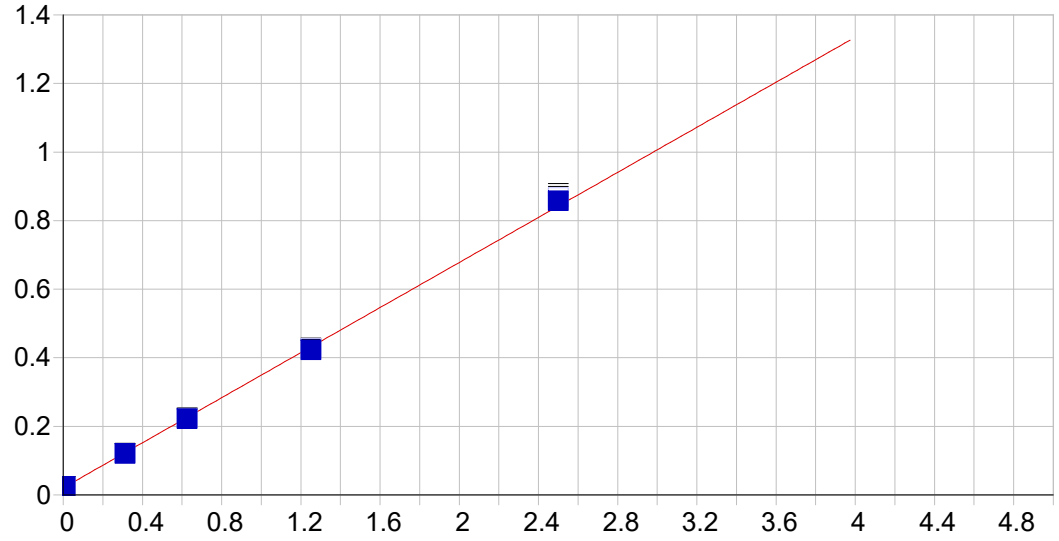
Ni 231.604 {446}

Date of Fit:	12/02/2024 7:50:46	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000049	Re-Slope:	1.000000
A1 (Gain):	0.534681	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999952	Status:	OK.
Std Error of Est:	0.000124		
Predicted MDL:	0.000636		
Predicted MQL:	0.002122		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00001	-.000	.000	.00005	.000	1
S1	.04000	.04548	.005	13.7	.02437	.000	1
S2	.62500	.62266	-.002	-.374	.33298	.001	1
S3	1.2500	1.2568	.007	.548	.67206	.000	1
S4	2.5000	2.4842	-.016	-.633	1.3283	.004	1
S5	5.0000	5.0058	.006	.117	2.6766	.016	1

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5



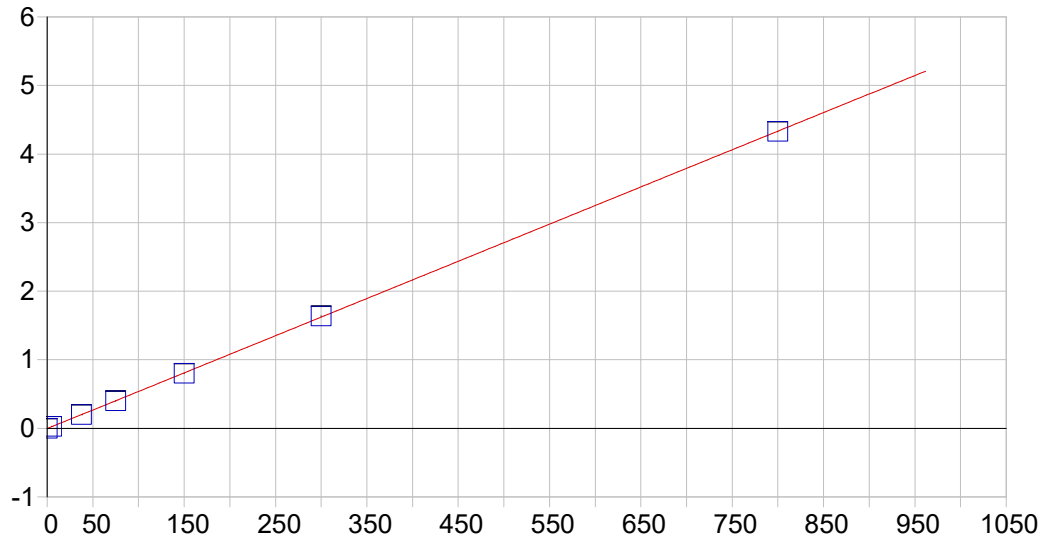
Ag 328.068 {103}

Date of Fit:	12/02/2024 7:50:46	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.020745	Re-Slope:	1.000000
A1 (Gain):	0.328605	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999754	Status:	OK.
Std Error of Est:	0.000062		
Predicted MDL:	n/a		
Predicted MQL:	n/a		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.02074	.000	1
S1	.01000	.01176	.002	17.6	.02460	.000	1
S2	.31250	.30310	-.009	-3.01	.12145	.000	1
S3	.62500	.61165	-.013	-2.14	.22395	.001	1
S4	1.2500	1.2233	-.027	-2.14	.42714	.001	1
S5	2.5000	2.5478	.048	1.91	.86680	.013	1

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5



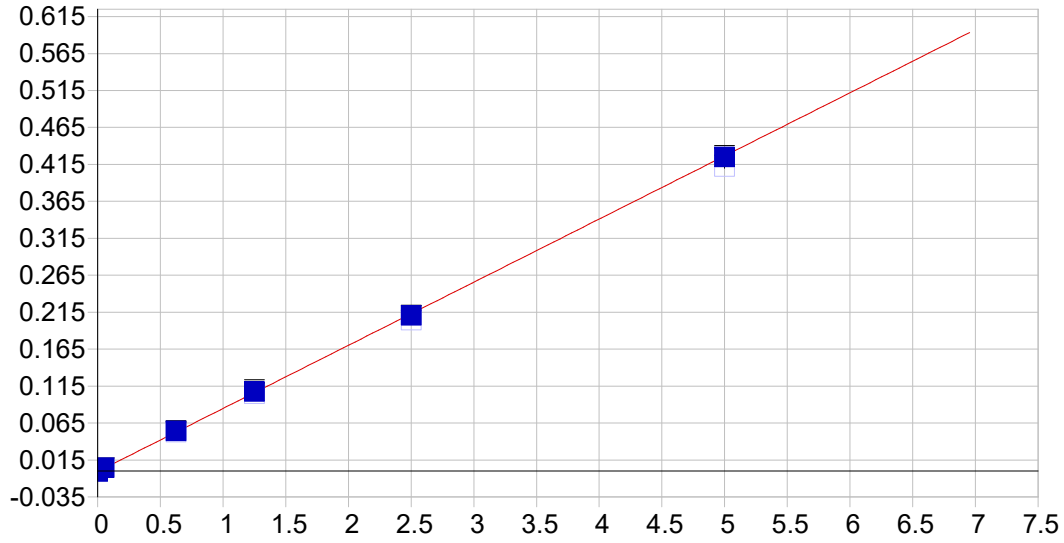
Na 818.326 { 41}

Date of Fit:	12/02/2024 7:50:46	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.003534	Re-Slope:	1.000000
A1 (Gain):	0.005421	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999929	Status:	OK.
Std Error of Est:	0.000199		
Predicted MDL:	0.342793		
Predicted MQL:	1.142644		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00081	-.001	.000	-.00354	.001	1
S1	5.0000	5.8608	.861	17.2	.02824	.002	1
S2	37.500	37.567	.067	.178	.20011	.001	1
S3	75.000	74.461	-.539	-.718	.40011	.004	1
S4	150.00	148.27	-1.73	-1.15	.80020	.002	1
S5	300.00	302.42	2.42	.807	1.6358	.005	1
S6	800.00	798.92	-1.08	-.135	4.3273	.002	1

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5



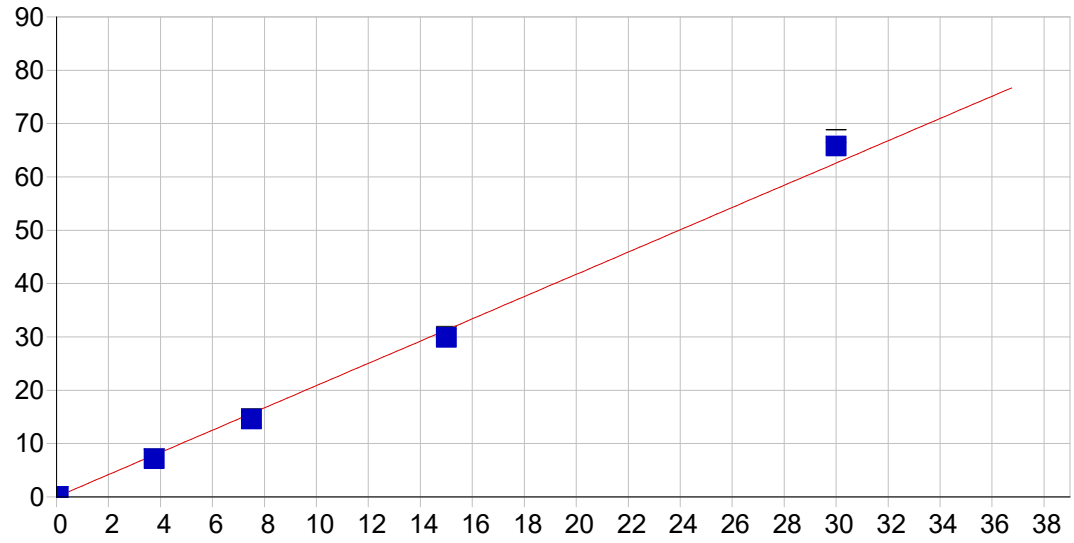
V 292.402 {115}

Date of Fit:	12/02/2024 7:50:46	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000726	Re-Slope:	1.000000
A1 (Gain):	0.085442	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999839	Status:	OK.
Std Error of Est:	0.000039		
Predicted MDL:	0.006461		
Predicted MQL:	0.021538		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00001	-.000	.000	-.00073	.000	1
S1	.05000	.05961	.010	19.2	.00436	.000	1
S2	.62500	.64143	.016	2.63	.05244	.001	1
S3	1.2500	1.2672	.017	1.37	.10426	.003	1
S4	2.5000	2.4737	-.026	-1.05	.20407	.000	1
S5	5.0000	4.9828	-.017	-.344	.41188	.002	1

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

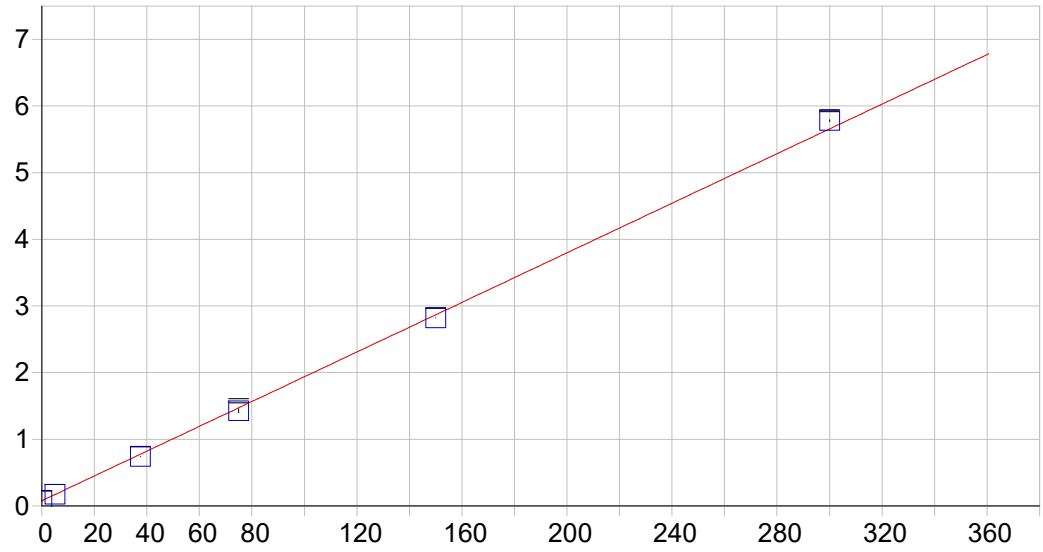


Zn 213.856 {158}

Date of Fit:	12/02/2024 7:50:46	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.002237	Re-Slope:	1.000000
A1 (Gain):	2.086653	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.998429	Status:	OK.
Std Error of Est:	0.008341		
Predicted MDL:	0.000541		
Predicted MQL:	0.001804		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00223	.001	1
S1	.06000	.07144	.011	19.1	.15192	.003	1
S2	3.7500	3.4081	-.342	-9.12	7.1233	.006	1
S3	7.5000	6.9792	-.521	-6.94	14.584	.076	1
S4	15.000	14.324	-.676	-4.51	29.929	.170	1
S5	30.000	31.527	1.53	5.09	65.865	1.17	1



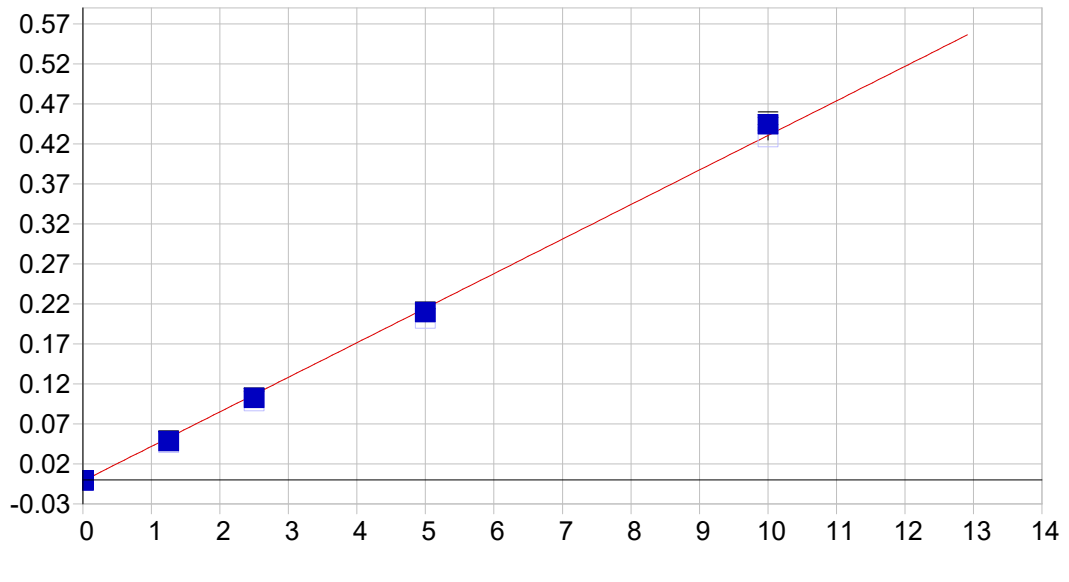
K 769.896 { 44}

Date of Fit:	12/02/2024 7:50:46	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.077967	Re-Slope:	1.000000
A1 (Gain):	0.018597	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999688	Status:	OK.
Std Error of Est:	0.000957		
Predicted MDL:	0.125574		
Predicted MQL:	0.418580		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00030	.000	.000	.07797	.002	1
S1	5.0000	5.0753	.075	1.51	.17235	.001	1
S2	37.500	35.696	-1.80	-4.81	.74180	.001	1
S3	75.000	72.597	-2.40	-3.20	1.4280	.031	1
S4	150.00	147.49	-2.51	-1.67	2.8209	.003	1
S5	300.00	306.64	6.64	2.21	5.7804	.013	1

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5



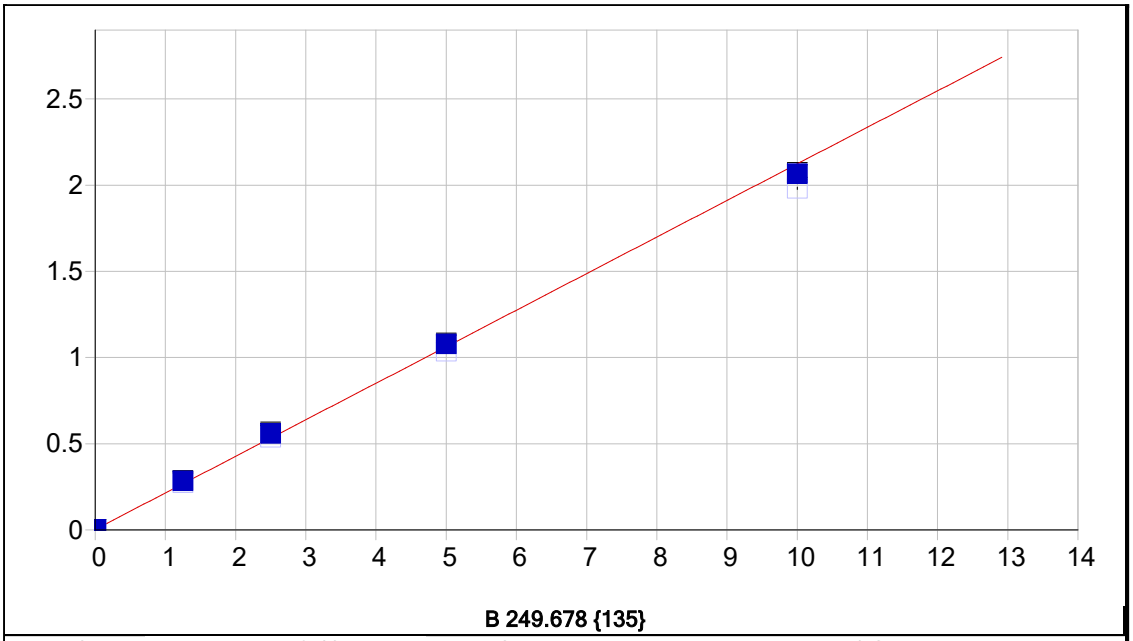
P 177.495 {490}

Date of Fit:	12/02/2024 7:50:46	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.001290	Re-Slope:	1.000000
A1 (Gain):	0.043186	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999290	Status:	OK.
Std Error of Est:	0.000026		
Predicted MDL:	0.004392		
Predicted MQL:	0.014641		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	-.00129	.000	1
S1	.01000	.00969	-.000	-3.14	-.00088	.000	1
S2	1.2500	1.1497	-.100	-8.02	.04638	.000	1
S3	2.5000	2.3993	-.101	-4.03	.09836	.000	1
S4	5.0000	4.8850	-.115	-2.30	.20174	.000	1
S5	10.000	10.316	.316	3.16	.42835	.003	1

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5



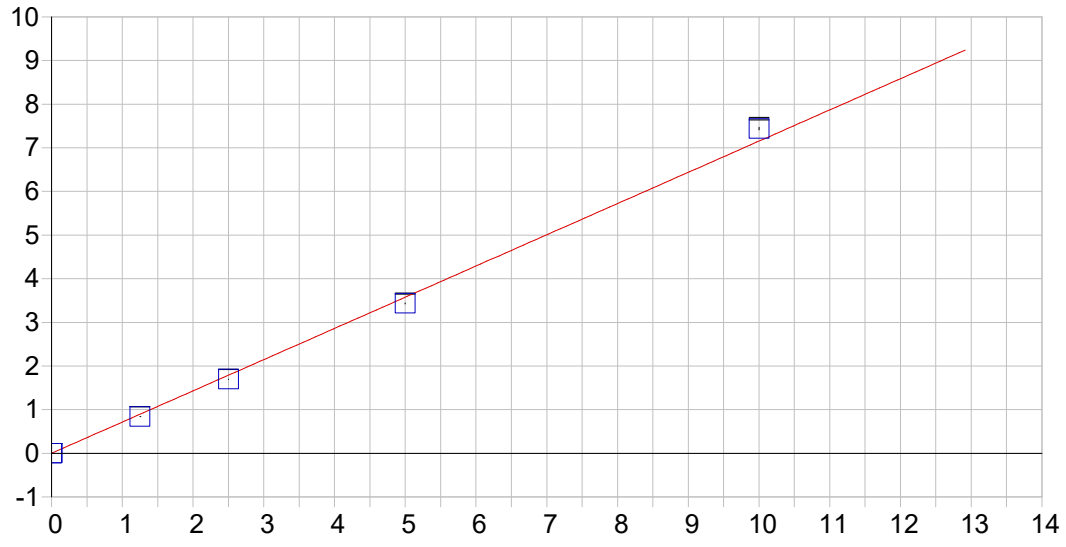
B 249.678 {135}

Date of Fit:	12/02/2024 7:50:46	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.002406	Re-Slope:	1.000000
A1 (Gain):	0.212099	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999064	Status:	OK.
Std Error of Est:	0.000148		
Predicted MDL:	0.001949		
Predicted MQL:	0.006498		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00001	.000	.000	.00241	.000	1
S1	.01000	-.00150	-.012	-115.	.00207	.000	1
S2	1.2500	1.3286	.079	6.29	.27349	.002	1
S3	2.5000	2.6220	.122	4.88	.53714	.009	1
S4	5.0000	5.0770	.077	1.54	1.0364	.005	1
S5	10.000	9.7342	-.266	-2.66	1.9814	.006	1

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5



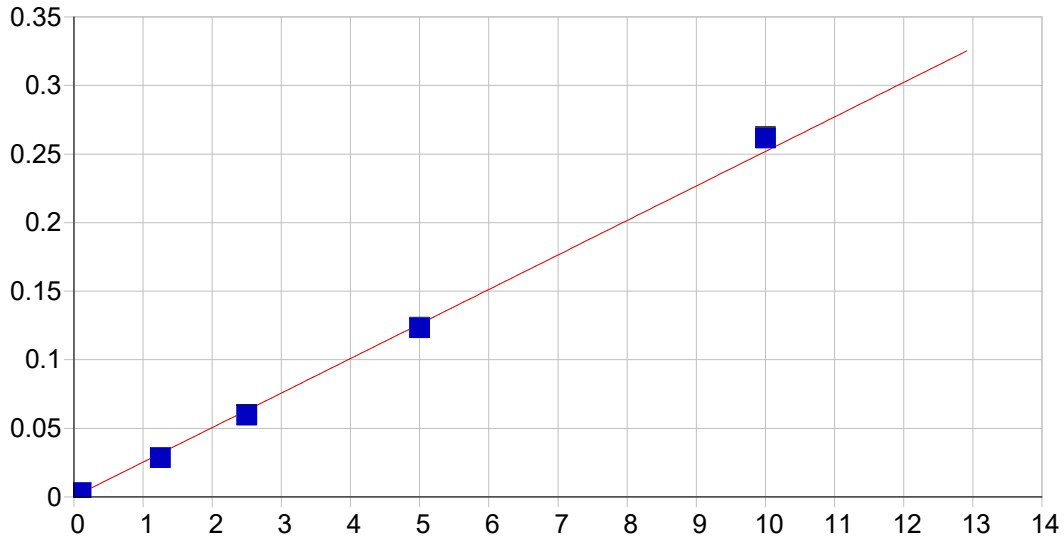
Mo 202.030 {467}

Date of Fit:	12/02/2024 7:50:46	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000179	Re-Slope:	1.000000
A1 (Gain):	0.715331	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999065	Status:	OK.
Std Error of Est:	0.000519		
Predicted MDL:	0.000575		
Predicted MQL:	0.001915		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	-.00018	.000	1
S1	.01000	.01068	.001	6.77	.00746	.000	1
S2	1.2500	1.1751	-.075	-5.99	.84039	.002	1
S3	2.5000	2.3718	-.128	-5.13	1.6964	.001	1
S4	5.0000	4.8010	-.199	-3.98	3.4342	.012	1
S5	10.000	10.401	.401	4.01	7.4403	.033	1

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5



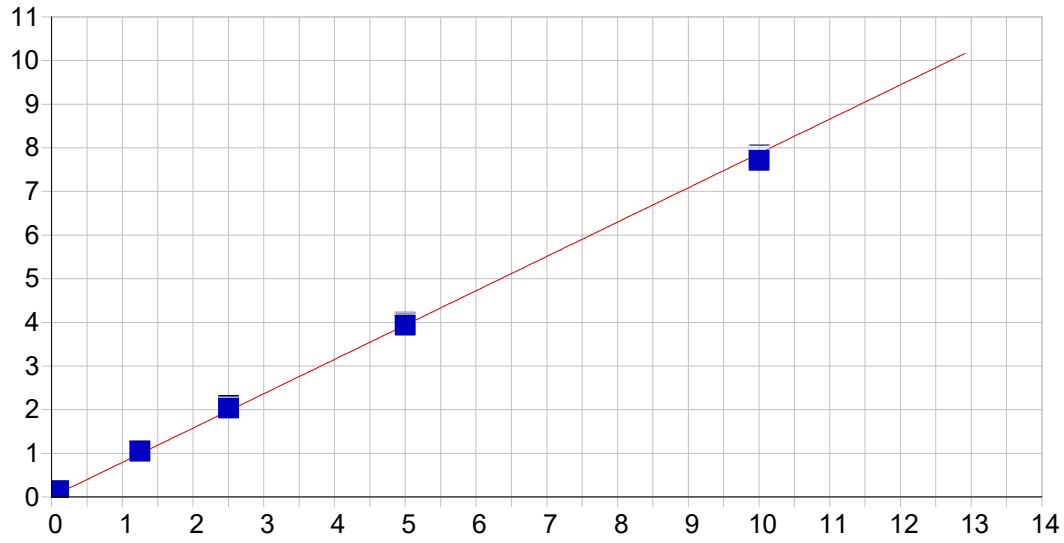
S 182.034 {485}

Date of Fit:	12/02/2024 7:50:46	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000222	Re-Slope:	1.000000
A1 (Gain):	0.025168	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.998963	Status:	OK.
Std Error of Est:	0.000061		
Predicted MDL:	0.007247		
Predicted MQL:	0.024157		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00001	.000	.000	.00022	.000	1
S1	.10000	.10747	.007	7.47	.00293	.000	1
S2	1.2500	1.1203	-.130	-10.4	.02842	.000	1
S3	2.5000	2.3591	-.141	-5.64	.05960	.000	1
S4	5.0000	4.8829	-.117	-2.34	.12312	.001	1
S5	10.000	10.380	.380	3.80	.26149	.001	1

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

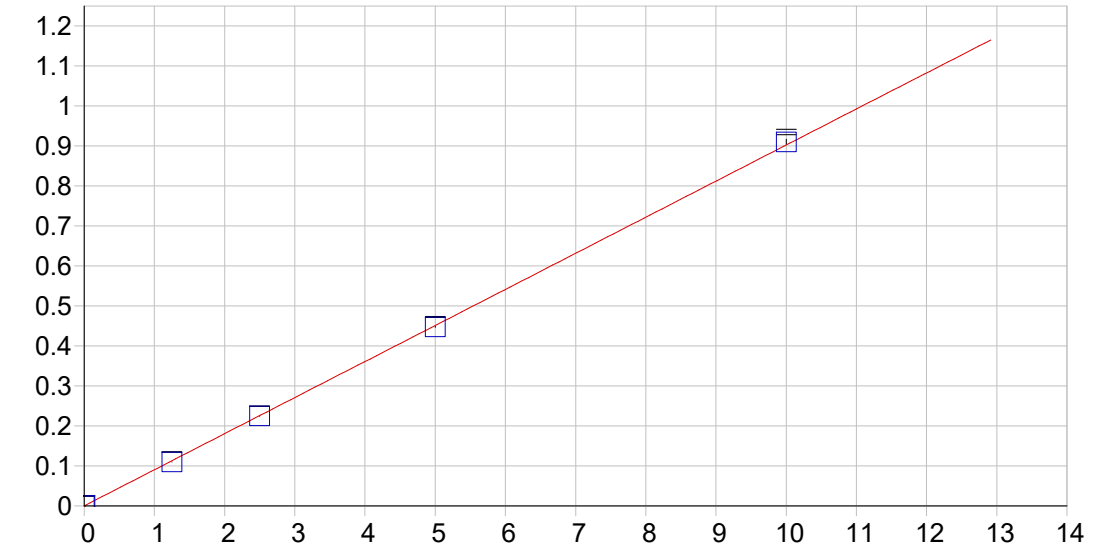


Si 251.611 {134}

Date of Fit:	12/02/2024 7:50:46	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.004970	Re-Slope:	1.000000
A1 (Gain):	0.786594	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.998483	Status:	OK.
Std Error of Est:	0.002342		
Predicted MDL:	0.000493		
Predicted MQL:	0.001645		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00008	-.000	.000	.00491	.000	1
S1	.10000	.17007	.070	70.1	.13927	.001	1
S2	1.2500	1.3178	.068	5.42	1.0574	.003	1
S3	2.5000	2.5729	.073	2.92	2.0606	.039	1
S4	5.0000	4.9949	-.005	-.102	3.9975	.007	1
S5	10.000	9.7949	-.205	-2.05	7.8368	.006	1



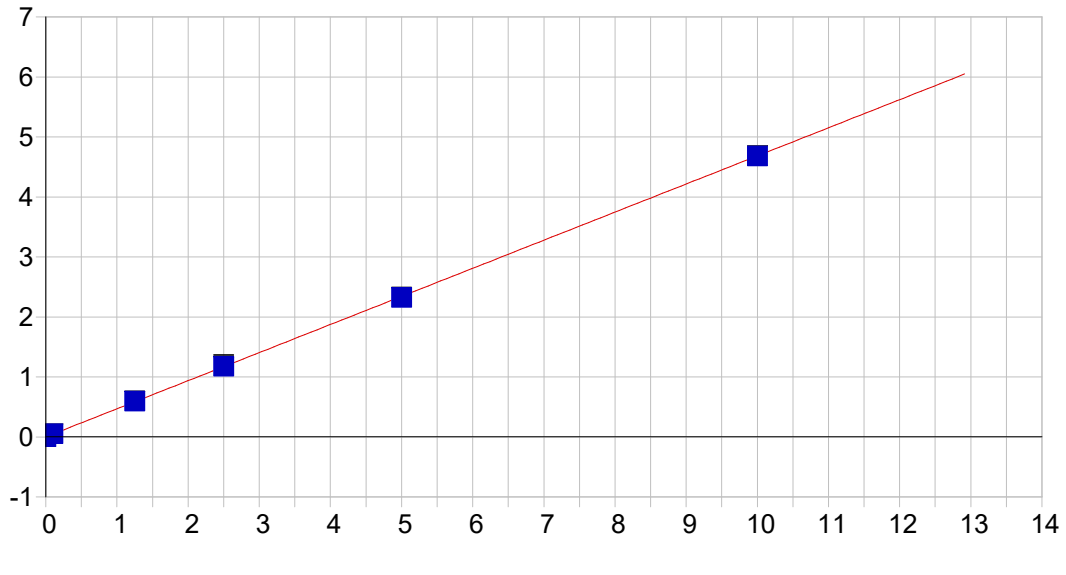
Sn 189.989 {478}

Date of Fit:	12/02/2024 7:50:46	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000198	Re-Slope:	1.000000
A1 (Gain):	0.090218	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999936	Status:	OK.
Std Error of Est:	0.000014		
Predicted MDL:	0.002010		
Predicted MQL:	0.006701		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00020	.000	1
S1	.00700	.00858	.002	22.6	.00097	.000	1
S2	1.2500	1.2161	-.034	-2.71	.10991	.000	1
S3	2.5000	2.4867	-.013	-.533	.22454	.001	1
S4	5.0000	4.9606	-.039	-.788	.44773	.001	1
S5	10.000	10.085	.085	.851	.91005	.007	1

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

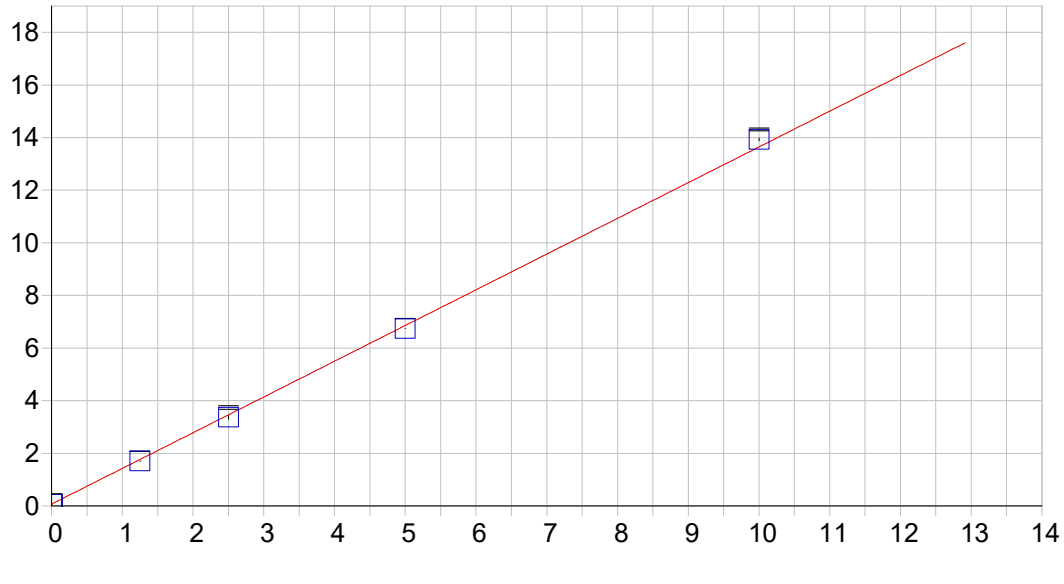


Ti 336.121 {100}

Date of Fit:	12/02/2024 7:50:46	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000000	Re-Slope:	1.000000
A1 (Gain):	0.468376	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999947	Status:	OK.
Std Error of Est:	0.000257		
Predicted MDL:	0.001335		
Predicted MQL:	0.004450		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00001	-.000	.000	-.00001	.001	1
S1	.10000	.11109	.011	11.1	.05201	.001	1
S2	1.2500	1.2713	.021	1.70	.59513	.000	1
S3	2.5000	2.5125	.012	.500	1.1762	.024	1
S4	5.0000	4.9581	-.042	-.837	2.3211	.005	1
S5	10.000	9.9970	-.003	-.030	4.6800	.011	1



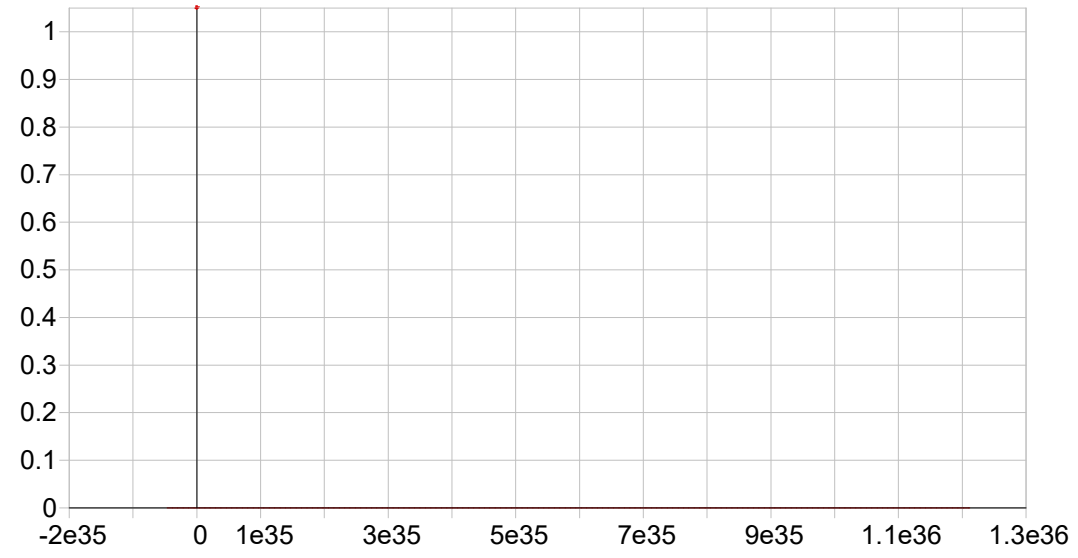
Li 670.784 { 50}

Date of Fit:	12/02/2024 7:50:46	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.067757	Re-Slope:	1.000000
A1 (Gain):	1.357791	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999645	Status:	OK.
Std Error of Est:	0.000743		
Predicted MDL:	0.001376		
Predicted MQL:	0.004588		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00001	.000	.000	.06777	.002	1
S5	10.000	10.211	.211	2.11	13.933	.052	1
S4	5.0000	4.9156	-.084	-1.69	6.7421	.008	1
S3	2.5000	2.4273	-.073	-2.91	3.3635	.067	1
S2	1.2500	1.2029	-.047	-3.76	1.7011	.004	1
S1	.01500	.00771	-.007	-48.6	.07823	.002	1

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

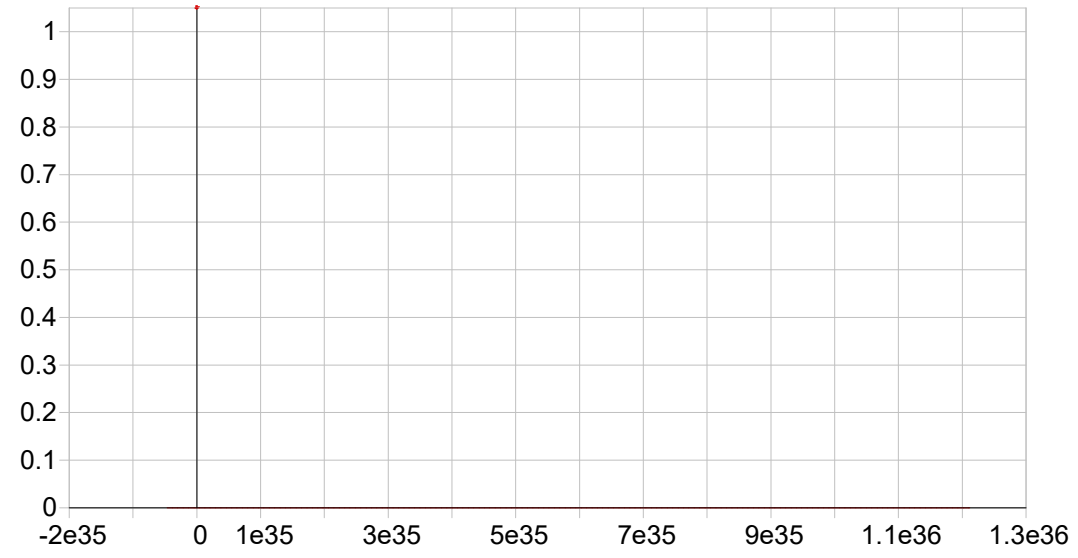


Y 224.306 {450}*

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}*

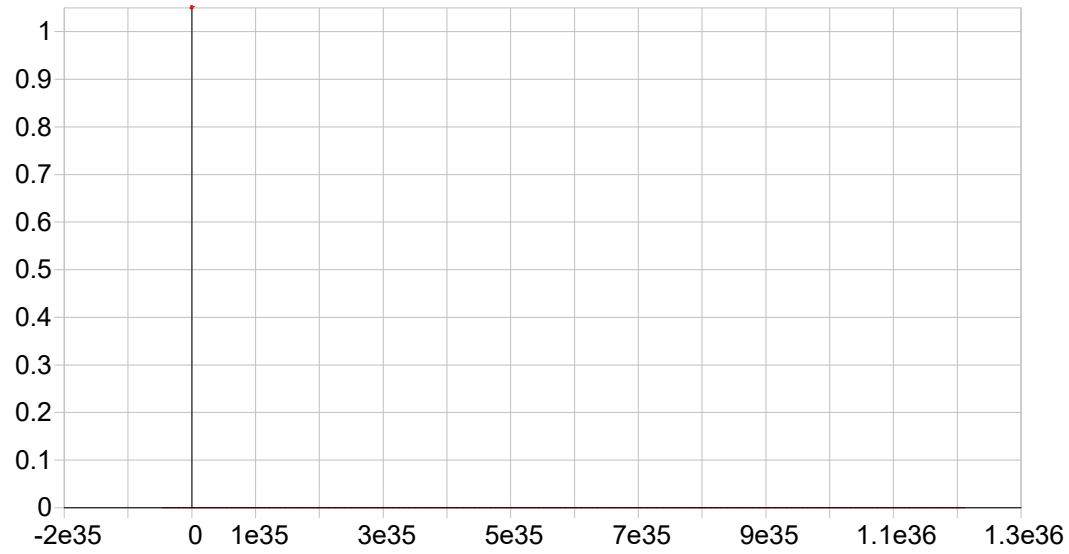
Date of Fit:	<not fit>	Type of Fit:	Linear	Weighting:	1/Conc

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

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
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



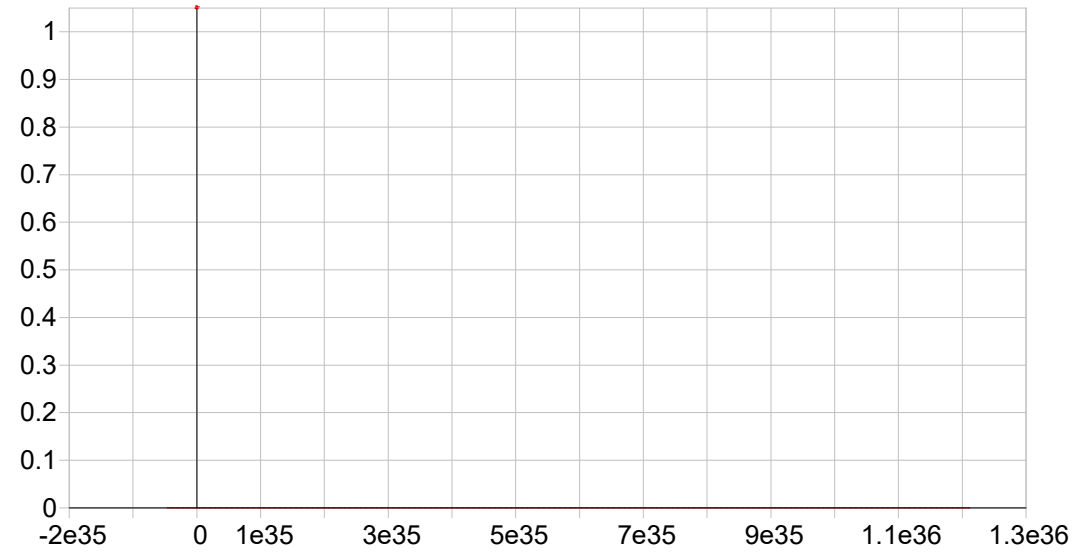
Y 371.030 { 91}*

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

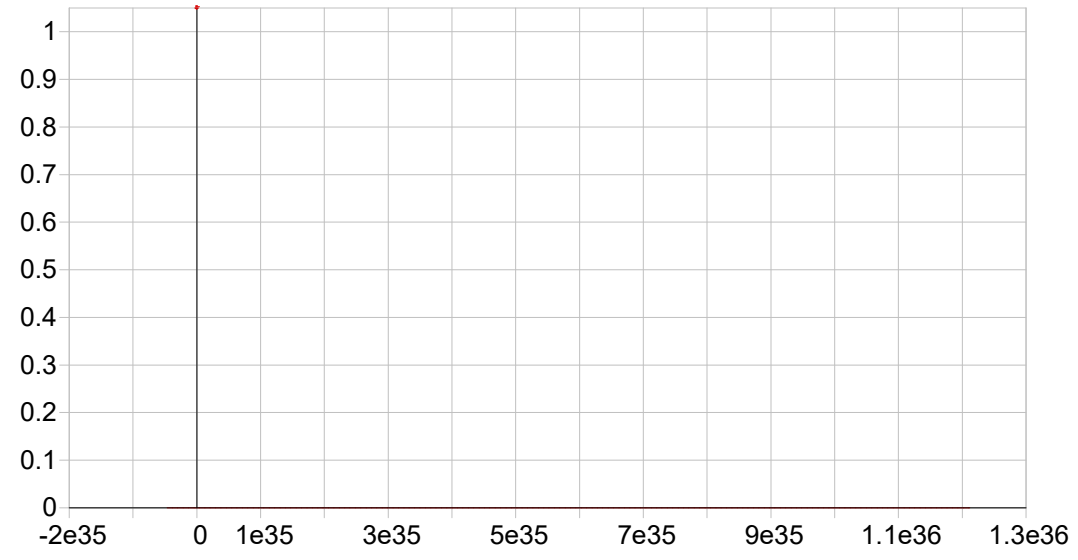
Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5



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	

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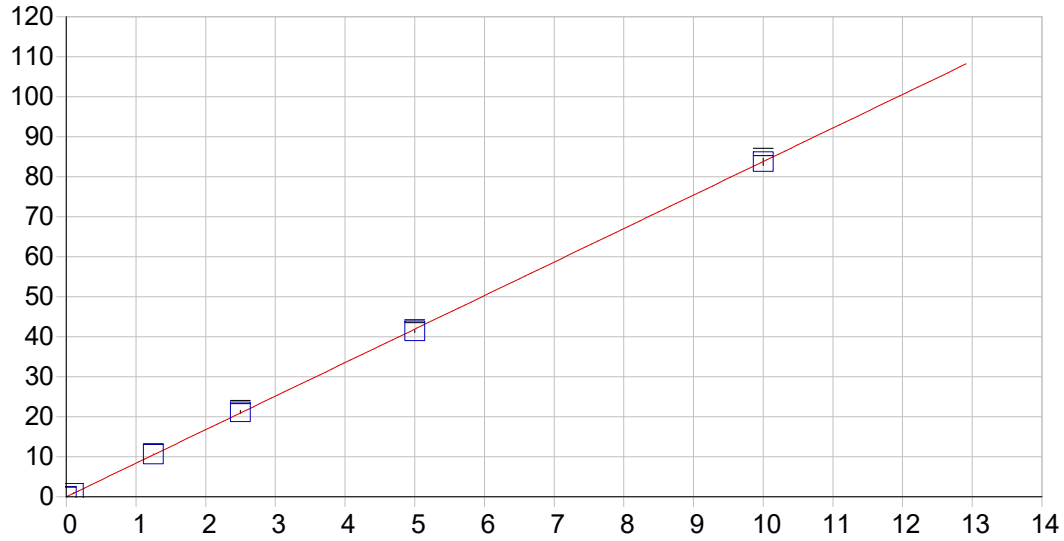
A2 (Curvature):	0.000000				
n (Exponent):	1.000000				
Correlation:	0.000000	Status:	Warning	Zero Gain	
Std Error of Est:	0.000000				
Predicted MDL:	n/a				
Predicted MQL:	n/a				

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



Sr 407.771 { 83}

Date of Fit:	12/02/2024 7:50:46	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000828	Re-Slope:	1.000000
A1 (Gain):	8.380198	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999910	Status:	OK.
Std Error of Est:	0.005990		
Predicted MDL:	0.000107		
Predicted MQL:	0.000356		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00002	-.000	.000	.00070	.000	1
S1	.10000	.11412	.014	14.1	.95718	.002	1
S2	1.2500	1.2727	.023	1.82	10.666	.023	1
S3	2.5000	2.5274	.027	1.10	21.181	.409	1
S4	5.0000	4.9410	-.059	-1.18	41.407	.390	1
S5	10.000	9.9948	-.005	-.052	83.759	.920	1

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: S0 Acquired: 12/02/2024 15:21:38 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) 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	-.00016	-.00037	-.00020	-.00001	-.00003	-.00228	-.00216	-.00096
Stddev	.00015	.00009	.00033	.00015	.00033	.00008	.00287	.00048
%RSD	93.771	25.132	163.29	1107.4	1278.3	3.3580	132.62	49.995
#1	-.00004	-.00041	.00018	.00015	-.00010	-.00229	-.00168	-.00072
#2	-.00033	-.00027	-.00036	-.00005	.00033	-.00235	-.00524	-.00064
#3	-.00011	-.00045	-.00043	-.00014	-.00031	-.00220	.00043	-.00151

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	.00035	.00422	-.00020	-.00032	.00185	.00026	-.00017	-.00010
Stddev	.00009	.00035	.00009	.00021	.00015	.00015	.00016	.00013
%RSD	26.833	8.3951	46.871	66.498	8.3473	57.696	95.210	135.96
#1	.00044	.00431	-.00012	-.00037	.00170	.00043	-.00003	-.00011
#2	.00025	.00452	-.00031	-.00050	.00184	.00022	-.00034	.00004
#3	.00036	.00383	-.00017	-.00009	.00201	.00014	-.00013	-.00022

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	.00005	.02074	-.00354	-.00073	.00223	.07797	-.00129	.00241
Stddev	.00018	.00028	.00102	.00031	.00136	.00248	.00010	.00016
%RSD	385.24	1.3301	28.901	42.691	60.754	3.1764	7.4758	6.6167
#1	-.00005	.02106	-.00280	-.00062	.00092	.08014	-.00136	.00259
#2	.00025	.02061	-.00311	-.00048	.00363	.07850	-.00118	.00236
#3	-.00006	.02056	-.00471	-.00108	.00215	.07527	-.00133	.00228

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707	Sr4077
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	-.00018	.00022	.00491	.00020	-.00001	.06777	.00070
Stddev	.00043	.00008	.00027	.00005	.00087	.00222	.00008
%RSD	241.38	34.570	5.4780	27.173	15732.	3.2780	11.386
#1	-.00045	.00013	.00505	.00021	-.00063	.06834	.00063
#2	-.00041	.00026	.00508	.00024	-.00037	.06965	.00068
#3	.00032	.00027	.00460	.00014	.00098	.06532	.00078

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: S0 Acquired: 12/02/2024 15:21:38 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) 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	1001.8	29499.	5655.6	877.64	1845.6
Stddev	2.1	191.	55.1	4.23	7.7
%RSD	.20499	.64877	.97376	.48188	.41519
#1	1001.7	29280.	5650.3	872.76	1843.0
#2	1003.9	29635.	5603.4	880.29	1854.2
#3	999.75	29581.	5713.2	879.86	1839.5

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: S1 Acquired: 12/02/2024 15:26:14 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) 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	.00016	.00125	.00087	.00206	.00896	.01374	.80120	.01972
Stddev	.00011	.00014	.00057	.00018	.00026	.00025	.00317	.00035
%RSD	71.840	11.263	65.607	8.9718	2.9308	1.8417	.39580	1.7588
#1	.00003	.00112	.00148	.00192	.00897	.01396	.80171	.02007
#2	.00026	.00123	.00035	.00227	.00921	.01380	.79780	.01938
#3	.00019	.00140	.00078	.00200	.00869	.01346	.80408	.01972

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	.01040	.40637	.00126	.02823	.00740	.00234	.00933	.04000
Stddev	.00014	.00105	.00004	.00040	.00031	.00028	.00045	.00067
%RSD	1.3939	.25885	3.0987	1.4232	4.2578	11.820	4.8295	1.6778
#1	.01023	.40730	.00121	.02778	.00709	.00237	.00956	.03922
#2	.01051	.40657	.00129	.02834	.00739	.00260	.00963	.04039
#3	.01045	.40523	.00127	.02857	.00772	.00205	.00882	.04038

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	.02437	.02460	.02824	.00436	.15192	.17235	-.00088	.00207
Stddev	.00015	.00017	.00196	.00035	.00264	.00103	.00004	.00042
%RSD	.62873	.69980	6.9478	8.1230	1.7397	.59492	4.2953	20.548
#1	.02454	.02472	.03029	.00452	.15382	.17199	-.00085	.00211
#2	.02426	.02467	.02639	.00460	.14890	.17155	-.00092	.00247
#3	.02429	.02440	.02803	.00395	.15304	.17351	-.00087	.00162

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707	Sr4077
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.00746	.00293	.13927	.00097	.05201	.07823	.95718
Stddev	.00032	.00003	.00076	.00013	.00065	.00168	.00212
%RSD	4.3338	.98860	.54779	13.537	1.2564	2.1516	.22168
#1	.00747	.00289	.13854	.00084	.05194	.07792	.95835
#2	.00713	.00294	.14007	.00111	.05270	.08005	.95846
#3	.00778	.00295	.13921	.00097	.05140	.07673	.95473

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: S1 Acquired: 12/02/2024 15:26:14 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) 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	993.94	29377.	5693.6	871.62	1793.9
Stddev	3.01	97.	15.4	6.69	3.7
%RSD	.30271	.32982	.26978	.76741	.20572
#1	993.18	29297.	5676.0	864.39	1794.3
#2	997.25	29350.	5704.4	877.59	1797.4
#3	991.38	29485.	5700.3	872.88	1790.0

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: S2 Acquired: 12/02/2024 15:30:52 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) 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	.03146	.07095	.82147	.06344	.17967	2.9870	8.9009	.43766
Stddev	.00008	.00046	.00224	.00024	.00042	.0049	.0238	.00116
%RSD	.26302	.65451	.27246	.37509	.23494	.16448	.26752	.26397
#1	.03156	.07141	.82007	.06353	.18001	2.9813	8.8852	.43636
#2	.03141	.07096	.82029	.06317	.17981	2.9897	8.9283	.43804
#3	.03142	.07048	.82405	.06362	.17920	2.9900	8.8892	.43857

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	1.1305	4.4505	.47298	.33407	.77105	.74130	1.9399	.44787
Stddev	.0030	.0131	.00094	.00082	.00186	.00100	.0068	.00084
%RSD	.26559	.29441	.19906	.24429	.24157	.13547	.34861	.18648
#1	1.1284	4.4408	.47256	.33379	.76901	.74016	1.9325	.44733
#2	1.1291	4.4654	.47232	.33342	.77148	.74205	1.9458	.44744
#3	1.1339	4.4454	.47406	.33498	.77266	.74168	1.9414	.44883

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	.33298	.12145	.20011	.05244	7.1233	.74180	.04638	.27349
Stddev	.00057	.00022	.00075	.00053	.0063	.00095	.00025	.00174
%RSD	.17000	.17921	.37463	1.0126	.08920	.12756	.54017	.63474
#1	.33262	.12141	.19940	.05198	7.1302	.74074	.04667	.27183
#2	.33267	.12169	.20090	.05231	7.1222	.74207	.04627	.27336
#3	.33363	.12126	.20002	.05302	7.1177	.74258	.04620	.27529

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707	Sr4077
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.84039	.02842	1.0574	.10991	.59513	1.7011	10.666
Stddev	.00232	.00021	.0032	.00023	.00045	.0040	.023
%RSD	.27587	.74621	.30353	.20972	.07482	.23486	.21338
#1	.83925	.02859	1.0552	.10978	.59538	1.6986	10.643
#2	.83886	.02848	1.0561	.11018	.59540	1.7057	10.688
#3	.84306	.02818	1.0611	.10977	.59462	1.6990	10.668

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: S2 Acquired: 12/02/2024 15:30:52 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) 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	952.61	28593.	5707.2	828.80	1618.3
Stddev	.90	15.	20.2	1.26	2.8
%RSD	.09454	.05177	.35451	.15190	.17260
#1	953.61	28605.	5730.2	829.44	1620.8
#2	952.36	28576.	5699.7	827.35	1618.8
#3	951.87	28597.	5691.9	829.60	1615.3

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: S3 Acquired: 12/02/2024 15:35:16 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) 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	.06545	.14178	1.6615	.12873	.36703	5.9828	17.741	.85682
Stddev	.00018	.00026	.0038	.00030	.00025	.1161	.343	.01311
%RSD	.28162	.18124	.23081	.23505	.06750	1.9413	1.9305	1.5297
#1	.06529	.14195	1.6575	.12887	.36699	6.0172	17.837	.86187
#2	.06565	.14191	1.6618	.12838	.36729	5.8533	17.361	.84193
#3	.06541	.14149	1.6652	.12893	.36680	6.0777	18.026	.86664

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	2.2812	8.8199	.93227	.67822	1.5181	1.4536	3.8122	.89650
Stddev	.0039	.1668	.00142	.00128	.0275	.0313	.0717	.02124
%RSD	.17037	1.8917	.15231	.18804	1.8089	2.1529	1.8807	2.3687
#1	2.2803	8.8778	.93069	.67881	1.5250	1.4638	3.8335	.90277
#2	2.2779	8.6318	.93267	.67676	1.4878	1.4185	3.7322	.87283
#3	2.2855	8.9500	.93345	.67910	1.5414	1.4785	3.8708	.91389

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	.67206	.22395	.40011	.10426	14.584	1.4280	.09836	.53714
Stddev	.00049	.00052	.00400	.00251	.076	.0307	.00026	.00893
%RSD	.07261	.23304	.99946	2.4107	.51865	2.1497	.26937	1.6629
#1	.67262	.22344	.40117	.10524	14.584	1.4359	.09847	.54040
#2	.67180	.22392	.39568	.10141	14.660	1.3942	.09855	.52703
#3	.67176	.22449	.40346	.10614	14.509	1.4540	.09806	.54398

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707	Sr4077
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1.6964	.05960	2.0606	.22454	1.1762	3.3635	21.181
Stddev	.0015	.00028	.0394	.00050	.0237	.0667	.409
%RSD	.08786	.47629	1.9133	.22347	2.0174	1.9827	1.9291
#1	1.6978	.05953	2.0752	.22431	1.1831	3.3788	21.289
#2	1.6948	.05936	2.0160	.22420	1.1498	3.2905	20.729
#3	1.6966	.05991	2.0907	.22512	1.1957	3.4212	21.525

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: S3 Acquired: 12/02/2024 15:35:16 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) 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	910.56	27836.	5689.1	775.27	1523.0
Stddev	1.40	60.	97.0	4.87	1.1
%RSD	.15376	.21478	1.7049	.62867	.07336
#1	908.97	27886.	5658.5	774.28	1522.8
#2	911.10	27769.	5797.7	770.97	1524.2
#3	911.62	27852.	5611.0	780.56	1522.0

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: S4 Acquired: 12/02/2024 15:39:40 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) 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	.13585	.27474	3.2794	.26185	.76102	12.066	35.116	1.6796
Stddev	.00022	.00042	.0076	.00140	.00428	.020	.279	.0066
%RSD	.15883	.15295	.23158	.53603	.56238	.16820	.79501	.39591
#1	.13584	.27483	3.2736	.26061	.75754	12.044	34.866	1.6825
#2	.13607	.27510	3.2880	.26157	.75974	12.084	35.417	1.6843
#3	.13563	.27428	3.2767	.26337	.76580	12.070	35.066	1.6720

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	4.4972	17.434	1.8049	1.3483	3.0100	2.8447	7.4502	1.7962
Stddev	.0086	.028	.0021	.0017	.0007	.0077	.0201	.0052
%RSD	.19007	.15873	.11585	.12752	.02259	.27115	.27005	.28829
#1	4.4911	17.435	1.8047	1.3479	3.0093	2.8363	7.4422	1.7910
#2	4.5069	17.461	1.8071	1.3502	3.0102	2.8515	7.4731	1.8013
#3	4.4935	17.405	1.8029	1.3469	3.0106	2.8463	7.4354	1.7964

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	1.3283	.42714	.80020	.20407	29.929	2.8209	.20174	1.0364
Stddev	.0037	.00119	.00209	.00043	.170	.0029	.00034	.0052
%RSD	.27757	.27910	.26078	.21116	.56684	.10314	.16952	.50438
#1	1.3246	.42658	.79784	.20443	30.101	2.8175	.20153	1.0415
#2	1.3320	.42851	.80096	.20419	29.762	2.8227	.20213	1.0368
#3	1.3283	.42633	.80180	.20359	29.925	2.8224	.20155	1.0310

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707	Sr4077
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3.4342	.12312	3.9975	.44773	2.3211	6.7421	41.407
Stddev	.0116	.00057	.0070	.00118	.0048	.0077	.390
%RSD	.33807	.46626	.17423	.26251	.20491	.11484	.94092
#1	3.4281	.12262	4.0019	.44656	2.3184	6.7379	41.235
#2	3.4269	.12375	4.0012	.44891	2.3266	6.7510	41.853
#3	3.4475	.12300	3.9895	.44772	2.3183	6.7373	41.133

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: S4 Acquired: 12/02/2024 15:39:40 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) 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	843.05	26858.	5602.8	694.25	1415.1
Stddev	3.09	32.	22.1	3.57	1.2
%RSD	.36697	.11938	.39403	.51357	.08479
#1	844.88	26881.	5597.6	690.87	1415.0
#2	844.79	26822.	5583.7	697.97	1414.0
#3	839.48	26872.	5627.0	693.90	1416.4

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: S5 Acquired: 12/02/2024 15:44:19 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) 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	.28991	.54653	6.6709	.58251	1.7103	25.015	71.029	3.3630
Stddev	.00109	.00241	.0418	.00377	.0087	.070	.686	.0029
%RSD	.37465	.44038	.62718	.64656	.50745	.28062	.96602	.08754
#1	.28912	.54449	6.6271	.57918	1.7005	25.000	70.296	3.3617
#2	.28947	.54593	6.6751	.58176	1.7169	25.091	71.655	3.3664
#3	.29115	.54919	6.7105	.58660	1.7136	24.953	71.136	3.3610

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	9.0729	35.159	3.5427	2.7387	6.1067	5.6930	14.860	3.7059
Stddev	.0635	.141	.0577	.0129	.0180	.0092	.063	.0078
%RSD	.70000	.40174	1.6292	.46917	.29512	.16206	.42235	.21014
#1	9.0058	35.164	3.5629	2.7254	6.0967	5.6833	14.857	3.7048
#2	9.0810	35.297	3.4776	2.7397	6.1275	5.7017	14.924	3.7142
#3	9.1320	35.015	3.5876	2.7510	6.0959	5.6942	14.798	3.6987

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	2.6766	.86680	1.6358	.41188	65.865	5.7804	.42835	1.9814
Stddev	.0159	.01262	.0051	.00199	1.166	.0134	.00339	.0062
%RSD	.59353	1.4554	.31064	.48412	1.7709	.23096	.79221	.31233
#1	2.6591	.86886	1.6353	.41345	66.316	5.7723	.42513	1.9744
#2	2.6805	.85328	1.6412	.41256	64.540	5.7959	.42803	1.9840
#3	2.6901	.87826	1.6311	.40964	66.738	5.7731	.43190	1.9859

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707	Sr4077
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	7.4403	.26149	7.8368	.91005	4.6800	13.933	83.759
Stddev	.0325	.00100	.0056	.00679	.0107	.052	.920
%RSD	.43735	.38083	.07112	.74660	.22931	.36999	1.0984
#1	7.4028	.26035	7.8307	.90318	4.6821	13.920	84.464
#2	7.4611	.26196	7.8415	.91021	4.6896	13.990	84.095
#3	7.4569	.26217	7.8383	.91676	4.6684	13.889	82.718

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: S5 Acquired: 12/02/2024 15:44:19 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) 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	731.31	25681.	5494.8	560.91	1291.4
Stddev	2.70	321.	24.4	7.53	6.3
%RSD	.36901	1.2497	.44334	1.3427	.48817
#1	734.37	25572.	5497.8	557.69	1298.1
#2	729.29	26042.	5469.0	569.51	1290.4
#3	730.26	25428.	5517.5	555.52	1285.7

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: S6 Acquired: 12/02/2024 15:48:56 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) 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	63.890	54.964	15.059	5.9972	4.3273
Stddev	.560	.229	.009	.0028	.0017
%RSD	.87655	.41583	.06163	.04634	.03821
#1	63.249	54.753	15.069	5.9995	4.3277
#2	64.141	55.206	15.053	5.9941	4.3287
#3	64.282	54.932	15.054	5.9980	4.3255

Int. Std.	Y_3710
Units	Cts/S
Avg	5358.7
Stddev	21.0
%RSD	.39280
#1	5378.1
#2	5361.8
#3	5336.3

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: ICV011 Acquired: 12/02/2024 16:20:15 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICV011 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9302695	1.077490	.9994085	.9762459	.9423681	2.395106
Stddev	.0025601	.001033	.0037936	.0015982	.0026759	.019797
%RSD	.2751957	.0958875	.3795861	.1637118	.2839569	.8265414
#1	.9273881	1.076343	1.002739	.9752293	.9453444	2.417314
#2	.9311384	1.078346	.995279	.9780881	.9401610	2.388694
#3	.9322820	1.077782	1.000208	.9754204	.9415988	2.379310

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5290852	.5379932	.5055187	10.33042	.5696593	.5014732
Stddev	.0048960	.0036699	.0011069	.09042	.0008267	.0026168
%RSD	.9253711	.6821427	.2189632	.8753210	.1451214	.5218206
#1	.5344996	.5421364	.5060549	10.39491	.5699674	.5035100
#2	.5277865	.5366919	.5042458	10.22706	.5687229	.4985219
#3	.5249696	.5351513	.5062554	10.36929	.5702878	.5023878

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4994544	10.65218	.5424813	5.511067	.5143140	.2472287
Stddev	.0052329	.06052	.0013977	.129799	.0010810	.0017727
%RSD	1.047716	.5681763	.2576545	2.355236	.2101808	.7170071
#1	.4969227	10.70684	.5439791	5.521749	.5142313	.2488812
#2	.5054717	10.58714	.5412116	5.376257	.5132768	.2453564
#3	.4959689	10.66256	.5422534	5.635194	.5154340	.2474484

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	10.26040	.5397740	.9637626	9.640514	F .0004175	F -.007729
Stddev	.06868	.0049298	.0049788	.030881	.0031663	.001340
%RSD	.6694021	.9133131	.5165961	.3203226	758.4383	17.33107
#1	10.32202	.5441468	.9580416	9.612325	.0030345	-.008346
#2	10.27283	.5344313	.9671141	9.635696	-.003102	-.008649
#3	10.18635	.5407440	.9661320	9.673520	.001320	-.006192

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: ICV011 Acquired: 12/02/2024 16:20:15 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICV011 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F -.001020	F .0048618	F -.000397	F -.001816	F -.000684	F -.022489
Stddev	.000239	.0034269	.000673	.000998	.001474	.000652
%RSD	23.45924	70.48565	169.6956	54.99106	215.3425	2.901331
#1	-.001296	.0087564	-.000647	-.002967	-.002241	-.022800
#2	-.000885	.0035209	-.000909	-.001288	.000689	-.022927
#3	-.000878	.0023081	.000366	-.001192	-.000501	-.021739

Elem	Sr4077
Units	ppm
Avg	F .0012307
Stddev	.0000389
%RSD	3.162423
#1	.0011898
#2	.0012673
#3	.0012350

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	996.2054	29230.52	5672.246	865.0635	1768.258
Stddev	1.4263	47.13	45.891	2.7598	1.474
%RSD	.1431730	.1612303	.8090445	.3190265	.0833825
#1	994.6983	29176.11	5619.880	865.9822	1767.125
#2	996.3838	29256.82	5691.407	861.9615	1769.925
#3	997.5341	29258.62	5705.451	867.2467	1767.724

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: ICB011 Acquired: 12/02/2024 16:27:30 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICB011 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0055759	-.000679	-.003299	-.000265	.0016441	.1272186
Stddev	.0031555	.003761	.002077	.006979	.0013411	.0064931
%RSD	56.59195	554.2649	62.98253	2633.142	81.56961	5.103911
#1	.0063755	.002585	-.003070	.002679	.0010999	.1274920
#2	.0082547	-.004792	-.001345	-.008234	.0006606	.1335708
#3	.0020975	.000171	-.005481	.004760	.0031717	.1205932

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.001254	.0000890	-.000062	-.003432	.0010345	.0001256
Stddev	.000613	.0001450	.000164	.002133	.0007488	.0002297
%RSD	48.84000	162.8600	264.6484	62.13127	72.38804	182.7979
#1	-.001676	.0000207	-.000239	-.001167	.0006321	.0000716
#2	-.001536	.0002555	.000085	-.005401	.0018985	-.000072
#3	-.000552	-.000009	-.000032	-.003728	.0005728	.000378

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0021699	-.014340	.0005434	-.041417	.0001904	-.000634
Stddev	.0020004	.004834	.0003209	.034257	.0002420	.000301
%RSD	92.18770	33.70865	59.05669	82.71190	127.1016	47.50741
#1	.0020049	-.014769	.0007834	-.001885	-.000088	-.000288
#2	.0042477	-.018945	.0006680	-.062379	.000312	-.000842
#3	.0002571	-.009306	.0001789	-.059987	.000348	-.000771

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1787751	.0015458	.0018483	-.308000	.0008048	-.005658
Stddev	.4961219	.0051434	.0001761	.018786	.0009717	.001210
%RSD	277.5117	332.7261	9.524758	6.099362	120.7282	21.38208
#1	.0056868	.0014093	.0016451	-.322127	.0019155	-.004363
#2	-.207615	.0067561	.0019555	-.286680	.0003874	-.005850
#3	.738254	-.003528	.0019443	-.315193	.0001116	-.006760

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: ICB011 Acquired: 12/02/2024 16:27:30 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICB011 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000209	.0030293	-.000504	-.001894	.0014801	F -.017423
Stddev	.000293	.0066123	.000854	.002208	.0016425	.000465
%RSD	140.2775	218.2784	169.2918	116.5243	110.9677	2.671596
#1	-.000546	.0106497	-.000986	.000528	.0027666	-.017290
#2	-.000073	-.000368	-.001009	-.003794	.0020437	-.017039
#3	-.000009	-.001193	.000481	-.002418	-.000370	-.017941

Elem	Sr4077
Units	ppm
Avg	.0000030
Stddev	.0000664
%RSD	2212.207
#1	-.000055
#2	.000075
#3	-.000011

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1000.870	29608.19	5668.537	880.7435	1840.476
Stddev	8.905	48.94	15.757	5.0473	18.654
%RSD	.8896866	.1652985	.2779656	.5730728	1.013520
#1	993.741	29563.10	5653.964	875.4743	1827.431
#2	1010.851	29601.22	5685.257	881.2213	1861.842
#3	998.017	29660.24	5666.389	885.5350	1832.156

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: ICSA011 Acquired: 12/02/2024 16:40:20 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICSA011 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0081323	-.009915	-.003614	-.002237	.0033938	239.4328
Stddev	.0089927	.011501	.006858	.006723	.0026041	.2942
%RSD	110.5792	115.9988	189.7737	300.6082	76.73153	.1228941
#1	.0166047	-.022304	-.010189	.005420	.0062260	239.2216
#2	-.001303	-.007861	-.004147	-.007175	.0028526	239.3080
#3	.009095	.000421	.003495	-.004954	.0011028	239.7689

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0046464	.0001036	.0024688	245.9508	.0501755	.0019943
Stddev	.0002763	.0000805	.0002636	.8808	.0010407	.0010831
%RSD	5.946510	77.75337	10.67735	.3581170	2.074027	54.30956
#1	.0049164	.0000146	.0027456	245.1165	.0495049	.0032270
#2	.0046586	.0001245	.0022207	245.8643	.0496473	.0011948
#3	.0043642	.0001716	.0024401	246.8717	.0513744	.0015612

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.001801	100.5962	.0134654	237.3921	.0039712	.0035427
Stddev	.002316	.0354	.0006050	.1044	.0005385	.0007981
%RSD	128.6151	.0351689	4.492676	.0439698	13.56047	22.52759
#1	-.003112	100.5751	.0136734	237.2774	.0045832	.0038652
#2	-.003165	100.5764	.0127839	237.4174	.0035702	.0041291
#3	.000874	100.6370	.0139390	237.4816	.0037601	.0026338

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6440614	-.003624	.0115685	-.848029	-.003646	-.006639
Stddev	.3313827	.003244	.0011573	.053711	.002481	.002630
%RSD	51.45204	89.52944	10.00416	6.333627	68.05724	39.61612
#1	.6958579	-.001574	.0128406	-.820267	-.006369	-.007471
#2	.9464959	-.007364	.0105779	-.813880	-.003053	-.003694
#3	.2898305	-.001934	.0112870	-.909939	-.001514	-.008753

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: ICSA011 Acquired: 12/02/2024 16:40:20 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICSA011 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.001955	.0116872	-.001365	-.006814	-.001659	F -.018833
Stddev	.001230	.0031475	.000440	.001042	.000405	.000991
%RSD	62.91286	26.93154	32.28250	15.29189	24.38956	5.262364
#1	-.002243	.0146750	-.001214	-.007518	-.001242	-.018557
#2	-.000607	.0084012	-.001861	-.005617	-.002049	-.019932
#3	-.003016	.0119854	-.001019	-.007308	-.001686	-.018008

Elem	Sr4077
Units	ppm
Avg	F .1020231
Stddev	.0002192
%RSD	.2148269
#1	.1021279
#2	.1017712
#3	.1021702

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	932.7902	27354.34	5619.640	819.7372	1488.299
Stddev	2.0508	222.15	20.393	6.1719	3.430
%RSD	.2198557	.8121375	.3628864	.7529132	.2304504
#1	932.0933	27217.81	5638.587	816.0194	1484.339
#2	935.0987	27234.54	5622.274	816.3306	1490.334
#3	931.1787	27610.68	5598.058	826.8617	1490.224

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: ICSAB011 Acquired: 12/02/2024 16:44:49 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICSAB011 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1106477	.0961374	.0446091	.0428251	.5565713	243.8267
Stddev	.0051468	.0103482	.0019759	.0057489	.0034802	6.7269
%RSD	4.651545	10.76398	4.429328	13.42405	.6252877	2.758902
#1	.1080148	.0869533	.0437382	.0422425	.5525552	245.4954
#2	.1165783	.0941093	.0432183	.0488430	.5584595	236.4225
#3	.1073499	.1073495	.0468708	.0373897	.5586994	249.5622

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5332873	.5263197	1.058453	250.0722	.6108176	.5229085
Stddev	.0148916	.0128599	.002604	6.8146	.0022958	.0013919
%RSD	2.792416	2.443356	.2459767	2.725033	.3758515	.2661872
#1	.5379205	.5294018	1.060781	252.0789	.6114800	.5228196
#2	.5166298	.5121989	1.058937	242.4796	.6082634	.5243428
#3	.5453115	.5373585	1.055642	255.6581	.6127093	.5215633

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4802189	102.3314	.5331132	241.6859	1.046630	.1913993
Stddev	.0105276	2.9510	.0152152	7.4873	.001927	.0008120
%RSD	2.192242	2.883806	2.854024	3.097927	.1841559	.4242602
#1	.4837177	102.9159	.5386283	243.0838	1.045631	.1919691
#2	.4683874	99.1318	.5159096	233.5983	1.048852	.1917593
#3	.4885516	104.9464	.5448018	248.3757	1.045408	.1904695

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7157905	.5348270	.9190002	-.969729	.0024145	-.008626
Stddev	.3189468	.0154976	.0025822	.110113	.0061227	.001656
%RSD	44.55868	2.897691	.2809733	11.35503	253.5779	19.19568
#1	.3705867	.5414253	.9219413	-.981110	.0094843	-.006952
#2	.7772491	.5171222	.9179536	-1.07371	-.001154	-.008663
#3	.9995357	.5459335	.9171056	-.85437	-.001087	-.010263

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: ICSAB011 Acquired: 12/02/2024 16:44:49 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICSAB011 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.002141	.0116675	-.000564	F -.007418	-.003106	F -.020865
Stddev	.000281	.0112687	.000761	.003189	.001200	.001471
%RSD	13.12379	96.58262	134.9399	42.99027	38.62013	7.051671
#1	-.002381	.0232384	-.001429	-.010990	-.002684	-.022539
#2	-.002209	.0007274	-.000264	-.004856	-.002175	-.020283
#3	-.001832	.0110366	.000001	-.006409	-.004460	-.019774

Elem	Sr4077
Units	ppm
Avg	F .1041065
Stddev	.0027938
%RSD	2.683635
#1	.1048780
#2	.1010080
#3	.1064335

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	913.1938	27176.59	5648.939	810.9195	1460.121
Stddev	3.2337	21.68	145.535	3.5448	2.817
%RSD	.3541136	.0797784	2.576323	.4371369	.1929573
#1	914.1136	27153.32	5610.159	809.3064	1458.871
#2	909.5998	27180.25	5809.935	808.4681	1458.144
#3	915.8680	27196.22	5526.722	814.9840	1463.347

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: CCV071 Acquired: 12/02/2024 16:49:09 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV071 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.354240	5.007314	26.29863	5.005511	5.078064	421.0349	10.57685
Stddev	.013204	.012337	.07648	.029543	.026923	.4795	.07260
%RSD	.2466108	.2463830	.2907960	.5902193	.5301820	.1138946	.6864425
#1	5.359434	5.014706	26.36342	5.027076	5.108345	421.5043	10.53317
#2	5.339229	4.993071	26.21427	4.971837	5.056831	420.5458	10.66066
#3	5.364058	5.014164	26.31820	5.017620	5.069015	421.0547	10.53671

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5202912	2.672174	428.9746	16.30034	2.658752	15.70624	431.7915
Stddev	.0024431	.002538	.2367	.03253	.005445	.00486	.8081
%RSD	.4695707	.0949869	.0551818	.1995591	.2047815	.0309276	.1871539
#1	.5192911	2.674895	428.9043	16.33693	2.663005	15.70448	431.6196
#2	.5185068	2.671757	428.7810	16.28938	2.652616	15.71173	431.0832
#3	.5230757	2.669870	429.2385	16.27470	2.660635	15.70250	432.6717

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	15.66322	419.1440	2.631106	1.341973	423.4561	2.617352	15.56337
Stddev	.00305	.6158	.005930	.003759	.6797	.008090	.10091
%RSD	.0195005	.1469219	.2253896	.2801418	.1605087	.3091018	.6484065
#1	15.66567	419.6549	2.631206	1.345552	423.4738	2.626118	15.45086
#2	15.65980	418.4602	2.625127	1.342311	424.1268	2.615766	15.59335
#3	15.66419	419.3169	2.636986	1.338056	422.7677	2.610172	15.64590

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	161.2836	5.193361	4.710887	5.025665	5.357626	4.513891	5.288317
Stddev	.0353	.009733	.019892	.012042	.014493	.023067	.011745
%RSD	.0219119	.1874121	.4222510	.2396131	.2705209	.5110298	.2220840
#1	161.2657	5.204287	4.696055	5.034433	5.342099	4.498846	5.286305
#2	161.2608	5.185618	4.703114	5.011934	5.370797	4.502378	5.277708
#3	161.3243	5.190179	4.733491	5.030626	5.359981	4.540448	5.300937

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: CCV071 Acquired: 12/02/2024 16:49:09 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV071 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	5.217583	5.346988	5.282098
Stddev	.005845	.004813	.017239
%RSD	.1120173	.0900068	.3263726
#1	5.223709	5.352540	5.268496
#2	5.216972	5.344434	5.276312
#3	5.212067	5.343992	5.301486

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	792.6437	25398.02	5451.134	645.1227	1290.447
Stddev	1.3177	57.86	9.813	3.7801	1.260
%RSD	.1662381	.2278073	.1800115	.5859488	.0976259
#1	791.3355	25344.67	5453.410	649.4152	1289.287
#2	793.9707	25389.87	5459.609	642.2912	1291.787
#3	792.6250	25459.52	5440.384	643.6616	1290.265

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: CCB071 Acquired: 12/02/2024 16:53:48 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB071 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0060817	-.002176	-.003386	.0081089	.0008043	.0086501	-.000674
Stddev	.0039151	.004569	.005729	.0049901	.0028007	.0042680	.000288
%RSD	64.37514	209.9511	169.2018	61.53792	348.2174	49.34074	42.76625
#1	.0086243	-.004790	.001625	.0124634	.0038149	.0038499	-.000499
#2	.0080475	-.004838	-.009632	.0026637	-.001724	.0100835	-.001006
#3	.0015732	.003099	-.002151	.0091997	.000322	.0120168	-.000516

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000320	-.000071	.0052776	.0008504	-.000410	.0004825	.0052189
Stddev	.0001331	.000100	.0090250	.0005843	.000559	.0036555	.0136472
%RSD	415.6533	142.1556	171.0052	68.71751	136.2559	757.6872	261.4966
#1	.0001115	-.000037	-.004846	.0010331	.000119	.0044120	.0025858
#2	.0001061	-.000183	.008200	.0001965	-.000994	-.002817	.0199908
#3	-.000122	.000009	.012479	.0013214	-.000355	-.000148	-.006920

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0006036	-.000896	.0000463	.0005813	.2254280	-.004867	-.000065
Stddev	.0004315	.017882	.0001619	.0003188	.1982798	.005215	.000263
%RSD	71.48636	1995.602	349.4828	54.83926	87.95706	107.1458	400.9955
#1	.0001533	-.021522	-.000141	.0004195	.1767684	-.002230	-.000368
#2	.0006441	.010237	.000137	.0009485	.4435078	-.010874	.000095
#3	.0010134	.008598	.000143	.0003759	.0560077	-.001497	.000077

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0785240	.0015817	-.000228	-.000444	.0017591	-.000313	-.002616
Stddev	.0244322	.0032596	.001770	.000468	.0065280	.000212	.000192
%RSD	31.11437	206.0793	777.0349	105.2591	371.1095	67.80582	7.321698
#1	.0832390	.0053159	-.000202	.000062	-.005581	-.000490	-.002835
#2	.0520779	.0001239	.001529	-.000533	.003942	-.000369	-.002478
#3	.1002551	-.000695	-.002011	-.000861	.006916	-.000078	-.002536

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: CCB071 Acquired: 12/02/2024 16:53:48 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB071 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0006305	-.013240	.0000648
Stddev	.0013755	.001070	.0001328
%RSD	218.1616	8.084883	205.0711
#1	.0009651	-.012611	.0001888
#2	.0018077	-.014476	.0000808
#3	-.000881	-.012632	-.000075

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	990.7179	29357.00	5632.036	878.1902	1807.997
Stddev	6.9828	60.56	10.659	2.3288	11.961
%RSD	.7048239	.2062924	.1892534	.2651809	.6615688
#1	992.5577	29356.42	5641.736	878.2199	1814.266
#2	996.5966	29296.73	5633.746	880.5041	1815.521
#3	982.9994	29417.85	5620.625	875.8468	1794.205

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: PB165190BL Acquired: 12/02/2024 16:58:22 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: PBW190 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0090017	.0012442	-.004629	.0031700	.0011472	-.000231
Stddev	.0036182	.0016634	.002099	.0030735	.0025173	.001181
%RSD	40.19481	133.6942	45.33231	96.95509	219.4293	511.8578
#1	.0131205	.0029169	-.002221	.0066242	.0002446	-.000976
#2	.0075489	.0012252	-.006068	.0007377	.0039914	-.000848
#3	.0063357	-.000410	-.005599	.0021480	-.000794	.001131

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.001431	.0000458	-.000193	-.006037	.0003835	.0001500
Stddev	.000206	.0000552	.000144	.009337	.0008531	.0005337
%RSD	14.41128	120.4669	74.55933	154.6529	222.4647	355.8243
#1	-.001578	.0000858	-.000359	.004690	.0011707	.0007589
#2	-.001519	.0000689	-.000109	-.010463	.0005027	-.000072
#3	-.001195	-.000017	-.000111	-.012338	-.000523	-.000237

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0005762	-.009631	-.000275	-.007924	.0002080	.0008239
Stddev	.0013733	.002748	.000375	.047601	.0002508	.0005271
%RSD	238.3432	28.53159	136.2665	600.7126	120.5965	63.97365
#1	.0000341	-.006911	.000155	-.027864	-.000068	.0010986
#2	.0021378	-.012406	-.000446	.046404	.000422	.0002162
#3	-.000443	-.009576	-.000535	-.042313	.000270	.0011569

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1578571	-.000093	-.000048	-.028526	.0007413	-.003319
Stddev	.1097060	.002066	.000473	.024320	.0043298	.000969
%RSD	69.49701	2232.478	986.6039	85.25507	584.0775	29.20223
#1	.2824334	.001138	-.000432	-.014028	.0053946	-.003612
#2	.1154681	-.002477	-.000193	-.056603	-.000002	-.002237
#3	.0756700	.001062	.000481	-.014947	-.003169	-.004108

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: PB165190BL Acquired: 12/02/2024 16:58:22 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: PBW190 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000384	.0031643	-.000377	-.000622	.0004784	F -.017997
Stddev	.000355	.0016822	.000164	.002938	.0009760	.000826
%RSD	92.43661	53.15983	43.60531	472.7010	203.9940	4.590065
#1	-.000174	.0021209	-.000455	.000458	-.000644	-.018391
#2	-.000795	.0022672	-.000188	-.003947	.000954	-.018552
#3	-.000184	.0051049	-.000488	.001624	.001126	-.017048

Elem	Sr4077
Units	ppm
Avg	-.000029
Stddev	.000104
%RSD	358.6581
#1	.000083
#2	-.000048
#3	-.000123

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	998.6403	29271.82	5648.525	867.2073	1820.210
Stddev	4.7225	96.84	27.523	1.1358	12.988
%RSD	.4728947	.3308412	.4872614	.1309709	.7135637
#1	997.4103	29166.14	5640.836	865.9825	1814.084
#2	1003.856	29356.32	5679.075	868.2257	1835.128
#3	994.655	29292.99	5625.664	867.4137	1811.417

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: PB165190BS Acquired: 12/02/2024 17:02:54 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: LCS190 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0194298	.0559269	.0193643	.0686695	.1172624	.4243081
Stddev	.0064840	.0023865	.0015947	.0046810	.0023109	.0132288
%RSD	33.37161	4.267176	8.235265	6.816650	1.970730	3.117733
#1	.0119814	.0539616	.0178230	.0632865	.1185788	.4394081
#2	.0224957	.0552366	.0192624	.0717836	.1145940	.4187563
#3	.0238123	.0585824	.0210076	.0709384	.1186143	.4147598

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4554164	.0113401	.0114192	11.63667	.0246662	.1082348
Stddev	.0006257	.0000736	.0002121	.03658	.0004424	.0008522
%RSD	.1373848	.6487824	1.857361	.3143709	1.793759	.7873436
#1	.4548644	.0113853	.0111927	11.66038	.0251347	.1075868
#2	.4560961	.0113798	.0114517	11.65509	.0246084	.1079174
#3	.4552886	.0112552	.0116132	11.59454	.0242554	.1092001

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0565334	.2195580	.0384482	10.71487	.0937846	.0248819
Stddev	.0018617	.0137223	.0001799	.05334	.0012200	.0004853
%RSD	3.293041	6.249977	.4679356	.4978357	1.300871	1.950537
#1	.0584087	.2322694	.0385624	10.74566	.0934657	.0250746
#2	.0565056	.2050098	.0382408	10.74568	.0927558	.0252412
#3	.0546857	.2213949	.0385414	10.65328	.0951324	.0243298

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	11.18801	.1204540	.1427037	10.51342	.0231885	F -.003528
Stddev	.32647	.0015717	.0005108	.05325	.0036456	.000636
%RSD	2.918012	1.304788	.3579456	.5064716	15.72180	18.02169
#1	11.34830	.1189637	.1421810	10.56165	.0265955	-.004236
#2	10.81238	.1220961	.1432017	10.45628	.0193437	-.003004
#3	11.40334	.1203023	.1427282	10.52232	.0236263	-.003345

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: PB165190BS Acquired: 12/02/2024 17:02:54 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: LCS190 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F .0206536	.2061772	F .3291862	.0141562	.2188605	F .0120564
Stddev	.0001104	.0094235	.0011623	.0023178	.0002409	.0017924
%RSD	.5344041	4.570570	.3530933	16.37299	.1100853	14.86697
#1	.0206511	.2104917	.3302712	.0153326	.2191161	.0136875
#2	.0205445	.1953689	.3293277	.0156499	.2188280	.0123440
#3	.0207652	.2126711	.3279595	.0114861	.2186376	.0101375

Elem	Sr4077
Units	ppm
Avg	.2265703
Stddev	.0005901
%RSD	.2604364
#1	.2261280
#2	.2272403
#3	.2263426

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	981.4666	28915.71	5700.247	862.0643	1720.664
Stddev	5.0550	86.50	20.634	6.3306	12.905
%RSD	.5150502	.2991475	.3619821	.7343581	.7500209
#1	982.6109	28891.83	5697.135	864.6414	1725.141
#2	985.8514	28843.65	5681.346	854.8516	1730.735
#3	975.9375	29011.64	5722.260	866.6999	1706.117

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: PB165192BL Acquired: 12/02/2024 17:07:24 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: PBS192 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0016645	.0012658	-.002981	-.001328	-.001618	.0647226
Stddev	.0010808	.0026875	.002097	.005641	.001496	.0024522
%RSD	64.93052	212.3172	70.32501	424.7770	92.43475	3.788841
#1	.0026491	-.000521	-.000907	-.002420	-.003343	.0675144
#2	.0018363	-.000038	-.005100	-.006342	-.000696	.0637361
#3	.0005081	.004357	-.002937	.004779	-.000814	.0629172

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000803	.0000073	-.000000	-.008608	.0007264	.0001722
Stddev	.000383	.0001032	.000176	.012558	.0008492	.0003379
%RSD	47.72260	1421.078	889037.8	145.8858	116.9128	196.2629
#1	-.000426	-.000012	-.000109	-.011938	-.000049	.0001146
#2	-.000792	-.000085	.000203	-.019167	.001634	.0005351
#3	-.001192	.000119	-.000094	.005279	.000594	-.000133

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0016674	-.002796	.0003694	.0075011	-.000237	.0005596
Stddev	.0029869	.001101	.0010041	.0533804	.000104	.0001391
%RSD	179.1403	39.36014	271.8289	711.6349	43.90406	24.86233
#1	-.000643	-.004027	.0011451	-.028382	-.000308	.0006335
#2	.005040	-.001906	-.000765	.068845	-.000286	.0003991
#3	.000604	-.002456	.000728	-.017959	-.000118	.0006462

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4709581	-.001681	.0003815	-.022858	.0004412	-.005396
Stddev	.1487196	.000418	.0004842	.130234	.0035495	.002454
%RSD	31.57809	24.88939	126.9233	569.7405	804.5336	45.48556
#1	.5043568	-.001963	.0007480	.013854	-.003409	-.008060
#2	.3083790	-.001200	.0005638	-.167508	.003584	-.003226
#3	.6001387	-.001880	-.000167	.085079	.001149	-.004902

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: PB165192BL Acquired: 12/02/2024 17:07:24 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: PBS192 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002210	.0051443	-.000038	-.000266	.0009636	F -.020974
Stddev	.0003579	.0069393	.000342	.001979	.0006722	.000309
%RSD	161.9701	134.8917	898.7325	744.4633	69.75428	1.471008
#1	.0001154	.0051766	.000122	-.001986	.0016400	-.020633
#2	-.000072	.0120675	.000195	-.000708	.0002957	-.021052
#3	.000620	-.001811	-.000431	.001897	.0009552	-.021236

Elem	Sr4077
Units	ppm
Avg	-.000046
Stddev	.000070
%RSD	152.3761
#1	-.000088
#2	.000035
#3	-.000086

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	997.9179	29300.54	5679.283	868.2943	1815.728
Stddev	2.7677	24.97	76.899	1.0406	6.790
%RSD	.2773490	.0852364	1.354019	.1198421	.3739788
#1	1001.114	29272.00	5675.354	868.6589	1823.496
#2	996.296	29311.27	5758.071	869.1035	1812.762
#3	996.344	29318.37	5604.425	867.1205	1810.924

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: PB165192BS Acquired: 12/02/2024 17:11:55 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: LCS192 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0180696	.0518834	.0183390	.0704957	.1156455	.4550080
Stddev	.0041410	.0007944	.0029279	.0056290	.0009089	.0097859
%RSD	22.91711	1.531084	15.96548	7.984834	.7859292	2.150714
#1	.0171703	.0524643	.0167770	.0648648	.1148699	.4662203
#2	.0225865	.0522076	.0165232	.0761227	.1154210	.4506177
#3	.0144522	.0509781	.0217166	.0704996	.1166456	.4481861

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4468271	.0113676	.0111013	11.37721	.0241336	.1069328
Stddev	.0102743	.0002969	.0000943	.23476	.0003984	.0003393
%RSD	2.299384	2.612049	.8490430	2.063408	1.650596	.3173465
#1	.4489184	.0115374	.0110663	11.46164	.0236781	.1065678
#2	.4356681	.0110248	.0110296	11.11191	.0244169	.1069920
#3	.4558949	.0115407	.0112081	11.55807	.0243058	.1072387

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0548524	.2083280	.0376077	10.58329	.0922465	.0243493
Stddev	.0043644	.0154070	.0010861	.20373	.0005435	.0004150
%RSD	7.956553	7.395560	2.887862	1.925056	.5892417	1.704510
#1	.0563103	.2260886	.0381726	10.68333	.0928304	.0242595
#2	.0499457	.2003410	.0363556	10.34888	.0921537	.0248018
#3	.0583013	.1985545	.0382949	10.71767	.0917553	.0239864

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	10.96135	.1166096	.1406085	10.28401	.0220227	F -.003678
Stddev	.39834	.0071792	.0006075	.27932	.0022328	.001467
%RSD	3.634006	6.156631	.4320355	2.716017	10.13852	39.88207
#1	11.04323	.1129220	.1400081	10.39765	.0199221	-.002710
#2	10.52843	.1120235	.1405947	9.96578	.0217786	-.005365
#3	11.31238	.1248832	.1412228	10.48858	.0243676	-.002957

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: PB165192BS Acquired: 12/02/2024 17:11:55 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: LCS192 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F .0207890	.2108266	F .3239245	.0150474	.2154834	F .0089252
Stddev	.0003801	.0077360	.0081252	.0000438	.0045238	.0007174
%RSD	1.828540	3.669358	2.508376	.2909222	2.099359	8.037581
#1	.0205855	.2159933	.3262149	.0150762	.2165343	.0083719
#2	.0205540	.2019326	.3148999	.0149971	.2105267	.0086681
#3	.0212276	.2145541	.3306587	.0150690	.2193892	.0097357

Elem	Sr4077
Units	ppm
Avg	.2228182
Stddev	.0050402
%RSD	2.262036
#1	.2245636
#2	.2171373
#3	.2267538

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	988.0771	28940.50	5733.800	862.4367	1731.901
Stddev	.7844	36.99	106.670	.4796	.804
%RSD	.0793894	.1278303	1.860375	.0556126	.0464094
#1	988.9272	28952.84	5689.353	862.9731	1732.411
#2	987.9230	28898.92	5855.506	862.0492	1730.974
#3	987.3812	28969.75	5656.539	862.2877	1732.317

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: PB165197BL Acquired: 12/02/2024 17:16:25 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: PBS197 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0023906	-.002672	-.002546	-.002083	-.000125	-.006526
Stddev	.0034252	.004145	.002964	.000953	.002717	.013606
%RSD	143.2781	155.1498	116.4207	45.74168	2172.561	208.4835
#1	.0011683	-.007204	-.005293	-.001410	.001120	.006710
#2	-.000256	.000927	.000596	-.001666	.001747	-.005813
#3	.006259	-.001738	-.002941	-.003173	-.003242	-.020475

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000749	.0000717	-.000170	-.011532	.0003039	-.000405
Stddev	.000080	.0000662	.000153	.011082	.0011253	.000106
%RSD	10.68126	92.28830	90.02695	96.09670	370.2159	26.28820
#1	-.000719	.0000118	-.000318	-.024304	.0012377	-.000385
#2	-.000839	.0001427	-.000179	-.005837	.0006196	-.000520
#3	-.000688	.0000606	-.000013	-.004456	-.000945	-.000310

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0009519	.0012891	-.000033	.0117593	.0004498	.0008537
Stddev	.0013539	.0128891	.000353	.0023371	.0001311	.0003028
%RSD	142.2351	999.8290	1071.161	19.87458	29.13910	35.47496
#1	.0025051	-.000342	-.000371	.0130658	.0005627	.0008744
#2	.0000216	.014916	.000334	.0131511	.0004806	.0011456
#3	.0003289	-.010707	-.000062	.0090611	.0003061	.0005410

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.228249	.0026153	-.000013	-.167517	-.001780	-.006379
Stddev	.127547	.0006313	.000449	.123012	.002339	.001135
%RSD	55.88085	24.13908	3574.449	73.43282	131.4136	17.79279
#1	-.241413	.0019589	-.000467	-.025480	-.000716	-.007680
#2	-.094629	.0032181	.000432	-.237483	-.004463	-.005866
#3	-.348703	.0026689	-.000003	-.239588	-.000162	-.005592

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: PB165197BL Acquired: 12/02/2024 17:16:25 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: PBS197 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000076	.0042259	-.000292	-.002109	-.000282	F -.023330
Stddev	.000389	.0038713	.000534	.001030	.001638	.002541
%RSD	514.7704	91.60940	182.7817	48.81996	580.0909	10.89237
#1	-.000481	.0016713	-.000867	-.002513	.001342	-.020783
#2	.000295	.0086801	.000187	-.002876	-.000256	-.023341
#3	-.000040	.0023263	-.000195	-.000939	-.001933	-.025866

Elem	Sr4077
Units	ppm
Avg	.0000320
Stddev	.0000790
%RSD	247.2192
#1	.0001081
#2	.0000375
#3	-.000050

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	983.5579	29230.89	5649.792	872.3685	1788.566
Stddev	13.2771	84.65	18.199	4.1910	21.641
%RSD	1.349903	.2896046	.3221255	.4804140	1.209992
#1	988.6772	29305.81	5635.368	871.0056	1793.052
#2	993.5132	29139.05	5643.768	869.0286	1807.612
#3	968.4833	29247.80	5670.239	877.0713	1765.033

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: PB165197BS Acquired: 12/02/2024 17:20:58 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: LCS197 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0238385	.0492082	.0197568	.0624055	.1113609	.3929549
Stddev	.0080681	.0028627	.0038980	.0057998	.0006888	.0169638
%RSD	33.84496	5.817568	19.72969	9.293681	.6185426	4.316982
#1	.0249712	.0462259	.0215109	.0681159	.1115418	.4082257
#2	.0152639	.0519341	.0152900	.0565203	.1119412	.3959438
#3	.0312804	.0494645	.0224696	.0625801	.1105997	.3746953

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4401961	.0113252	.0109451	11.28251	.0244882	.1039493
Stddev	.0004980	.0000992	.0000301	.02298	.0010803	.0006886
%RSD	.1131218	.8763039	.2753638	.2036989	4.411401	.6624633
#1	.4407043	.0112117	.0109107	11.26954	.0235729	.1046337
#2	.4397091	.0113678	.0109573	11.30904	.0256798	.1039576
#3	.4401747	.0113959	.0109672	11.26894	.0242120	.1032565

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0531357	.2138043	.0365650	10.55550	.0892056	.0247023
Stddev	.0043275	.0059740	.0005221	.06446	.0003484	.0008316
%RSD	8.144262	2.794132	1.427983	.6106399	.3906191	3.366429
#1	.0508206	.2080481	.0360390	10.49625	.0893001	.0251016
#2	.0581283	.2133902	.0365728	10.62414	.0894971	.0252590
#3	.0504582	.2199745	.0370832	10.54612	.0888197	.0237464

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	10.84292	.1157953	.1383680	10.23829	.0185172	F -.006219
Stddev	.06561	.0023192	.0007453	.08380	.0034704	.000467
%RSD	.6051349	2.002835	.5386500	.8184928	18.74144	7.509301
#1	10.77062	.1177666	.1390291	10.31047	.0189963	-.005978
#2	10.89868	.1163794	.1385146	10.25800	.0148321	-.006757
#3	10.85948	.1132399	.1375603	10.14639	.0217231	-.005921

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: PB165197BS Acquired: 12/02/2024 17:20:58 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: LCS197 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F .0202290	.2071631	F .3255031	.0136002	.2119524	F .0099767
Stddev	.0002816	.0019488	.0010919	.0006079	.0007704	.0005827
%RSD	1.391975	.9407052	.3354592	4.469518	.3634591	5.840854
#1	.0204939	.2055172	.3267592	.0129929	.2117091	.0103050
#2	.0199333	.2093150	.3247798	.0142086	.2128150	.0093039
#3	.0202599	.2066573	.3249704	.0135991	.2113330	.0103213

Elem	Sr4077
Units	ppm
Avg	.2192874
Stddev	.0004209
%RSD	.1919328
#1	.2189558
#2	.2191454
#3	.2197609

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	990.9017	29081.52	5623.234	866.4250	1743.732
Stddev	1.3133	80.67	9.294	3.9640	1.184
%RSD	.1325408	.2773911	.1652763	.4575162	.0679228
#1	990.1551	29085.20	5616.889	861.9771	1744.872
#2	990.1318	28999.07	5618.911	867.7131	1743.817
#3	992.4181	29160.29	5633.902	869.5847	1742.507

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: PB165139BL Acquired: 12/02/2024 17:25:28 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: PBS139 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0027954	-.003822	-.000376	-.000961	-.001002	-.013711
Stddev	.0034554	.000494	.001104	.003205	.002282	.009864
%RSD	123.6122	12.93550	293.3556	333.5758	227.8147	71.94017
#1	-.000851	-.003634	-.001476	.001456	-.003081	-.003235
#2	.006022	-.004383	.000733	.000258	-.001363	-.022819
#3	.003215	-.003450	-.000386	-.004596	.001439	-.015079

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0003372	-.000014	-.000083	.0010638	.0001712	-.000111
Stddev	.0010876	.000110	.000031	.0082793	.0005556	.000498
%RSD	322.5372	772.3389	36.82783	778.2862	324.5840	448.4159
#1	-.000901	.000080	-.000069	-.003350	-.000097	-.000484
#2	.001137	.000012	-.000062	.010615	.000810	.000454
#3	.000775	-.000135	-.000119	-.004073	-.000199	-.000302

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0025538	-.014005	-.000101	-.001818	.0002391	.0009273
Stddev	.0034512	.005380	.000471	.013000	.0007771	.0001959
%RSD	135.1418	38.41736	466.4985	715.1351	324.9566	21.12767
#1	.0064861	-.012095	-.000463	-.016228	.0002122	.0010351
#2	.0011473	-.009841	.000432	.009027	.0010294	.0007012
#3	.0000279	-.020080	-.000272	.001747	-.000524	.0010457

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3525470	-.003195	-.000195	-.118886	.0026051	-.007035
Stddev	.4116900	.004937	.000074	.051776	.0007756	.002261
%RSD	116.7760	154.4972	38.17865	43.55072	29.77321	32.13637
#1	.4892304	-.002189	-.000278	-.149544	.0020839	-.004561
#2	.6785108	.001161	-.000172	-.059107	.0022349	-.008993
#3	-.110100	-.008558	-.000135	-.148008	.0034965	-.007552

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: PB165139BL Acquired: 12/02/2024 17:25:28 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: PBS139 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000040	-.000423	-.000349	-.002433	.0005227	F -.021531
Stddev	.000526	.004985	.000162	.001002	.0014779	.001146
%RSD	1323.112	1179.743	46.53510	41.18222	282.7131	5.322102
#1	-.000258	-.005793	-.000512	-.001856	.0003583	-.022153
#2	-.000421	.000466	-.000348	-.003590	-.000866	-.022231
#3	.000560	.004059	-.000187	-.001852	.002076	-.020209

Elem	Sr4077
Units	ppm
Avg	.0000459
Stddev	.0001363
%RSD	296.7404
#1	.0001507
#2	-.000108
#3	.000095

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1004.721	29587.94	5616.494	883.3181	1850.180
Stddev	1.341	51.78	24.940	4.4303	1.263
%RSD	.1334533	.1749952	.4440460	.5015519	.0682895
#1	1004.633	29528.43	5639.050	880.4912	1849.234
#2	1006.104	29612.74	5620.721	888.4240	1851.615
#3	1003.427	29622.65	5589.711	881.0391	1849.691

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: PB165139BS Acquired: 12/02/2024 17:30:01 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: LCS139 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0217954	.0567151	.0185220	.0687504	.1131483	.4077386
Stddev	.0062617	.0016209	.0026793	.0070973	.0015613	.0111036
%RSD	28.72946	2.857929	14.46543	10.32336	1.379862	2.723219
#1	.0154325	.0553623	.0196026	.0735766	.1124462	.4108784
#2	.0279507	.0585117	.0154711	.0606011	.1149373	.3954032
#3	.0220030	.0562714	.0204922	.0720734	.1120613	.4169343

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4425886	.0116641	.0108942	11.33852	.0239897	.1052647
Stddev	.0004562	.0000229	.0001036	.01793	.0000827	.0007149
%RSD	.1030693	.1965647	.9512063	.1581143	.3448254	.6791239
#1	.4423503	.0116557	.0108427	11.35510	.0239468	.1052191
#2	.4423011	.0116466	.0110134	11.34095	.0239373	.1060012
#3	.4431146	.0116901	.0108263	11.31949	.0240851	.1045736

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0561789	.2216403	.0365663	10.79642	.0904701	.0240495
Stddev	.0019932	.0062471	.0005868	.11997	.0005678	.0001083
%RSD	3.547894	2.818576	1.604811	1.111172	.6276207	.4502489
#1	.0560620	.2286965	.0359608	10.66174	.0905728	.0241730
#2	.0582279	.2194102	.0366057	10.83569	.0909796	.0240051
#3	.0542467	.2168143	.0371324	10.89183	.0898580	.0239705

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	10.91122	.1200931	.1391187	10.21401	.0194536	F -.004456
Stddev	.47005	.0057215	.0002932	.15217	.0017818	.001144
%RSD	4.307943	4.764189	.2107459	1.489803	9.159274	25.66362
#1	11.01494	.1152727	.1393288	10.04591	.0204939	-.003647
#2	10.39797	.1185907	.1392434	10.34236	.0173962	-.003957
#3	11.32075	.1264159	.1387837	10.25375	.0204707	-.005764

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: PB165139BS Acquired: 12/02/2024 17:30:01 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: LCS139 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F .0205766	.2008947	F .3326834	.0132661	.2170062	F .0091482
Stddev	.0008079	.0078086	.0005128	.0011016	.0017071	.0010311
%RSD	3.926234	3.886926	.1541461	8.303719	.7866416	11.27107
#1	.0207657	.1921665	.3331071	.0135724	.2151310	.0087948
#2	.0212733	.2032993	.3328297	.0120437	.2174177	.0103096
#3	.0196910	.2072182	.3321133	.0141820	.2184699	.0083403

Elem	Sr4077
Units	ppm
Avg	.2227012
Stddev	.0005736
%RSD	.2575893
#1	.2220452
#2	.2231088
#3	.2229495

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	988.3481	29223.10	5642.005	873.5442	1757.736
Stddev	1.5257	18.96	31.392	1.3684	4.938
%RSD	.1543678	.0648878	.5563894	.1566503	.2809344
#1	988.0264	29201.21	5665.004	874.8257	1754.374
#2	987.0089	29234.69	5606.242	872.1029	1755.429
#3	990.0090	29233.39	5654.769	873.7039	1763.406

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: PB165171BL Acquired: 12/02/2024 17:34:31 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: PBS171 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0054415	.0031272	-.003665	.0024195	.0029007	.0049160
Stddev	.0030562	.0064586	.003915	.0090714	.0012812	.0049216
%RSD	56.16364	206.5306	106.8197	374.9265	44.16766	100.1132
#1	.0087347	-.002611	-.008185	-.007348	.0043535	.0010351
#2	.0048932	.010122	-.001378	.004028	.0019330	.0104517
#3	.0026966	.001871	-.001431	.010579	.0024154	.0032612

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000816	.0000961	-.000108	-.008669	.0004789	.0002330
Stddev	.000232	.0000583	.000089	.003223	.0009982	.0003383
%RSD	28.44045	60.70106	82.37820	37.17697	208.4210	145.2221
#1	-.000812	.0001248	-.000209	-.011552	.0010329	.0000724
#2	-.000586	.0001346	-.000050	-.009266	.0010773	.0006216
#3	-.001049	.0000290	-.000063	-.005190	-.000673	.0000048

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0016689	-.003550	.0001872	-.005357	.0002780	.0006727
Stddev	.0010501	.006398	.0006462	.025546	.0005629	.0004203
%RSD	62.91906	180.2086	345.1247	476.9015	202.5187	62.47612
#1	.0011421	-.009171	-.000133	-.034784	.0002829	.0008994
#2	.0028781	.003411	.000931	.007581	.0008384	.0009310
#3	.0009865	-.004890	-.000236	.011133	-.000287	.0001878

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3248434	-.002231	-.000510	-.273427	-.001093	-.006612
Stddev	.2118105	.001851	.000750	.220327	.008007	.002038
%RSD	65.20387	82.95650	147.2613	80.57987	732.8294	30.81663
#1	.5448988	-.000790	-.001322	-.051171	.007927	-.005711
#2	.3072572	-.004319	-.000365	-.491774	-.007364	-.008945
#3	.1223743	-.001586	.000158	-.277337	-.003841	-.005181

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: PB165171BL Acquired: 12/02/2024 17:34:31 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: PBS171 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000022	.0033584	-.000469	-.001416	.0018288	F -.024054
Stddev	.000197	.0044150	.000498	.000958	.0006088	.001638
%RSD	914.0132	131.4631	106.2583	67.62060	33.29017	6.810502
#1	-.000154	-.000224	-.000002	-.002378	.0021279	-.022591
#2	.000205	.002008	-.000411	-.001408	.0022301	-.025824
#3	-.000116	.008291	-.000994	-.000463	.0011283	-.023746

Elem	Sr4077
Units	ppm
Avg	.0000040
Stddev	.0001050
%RSD	2607.097
#1	-.000115
#2	.000085
#3	.000042

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	985.1256	29349.16	5644.477	877.0609	1814.617
Stddev	13.3330	134.92	230.751	3.3298	24.126
%RSD	1.353435	.4597088	4.088083	.3796597	1.329534
#1	977.6606	29237.26	5541.457	878.3380	1801.481
#2	1000.519	29311.22	5908.793	873.2815	1842.460
#3	977.197	29498.98	5483.182	879.5631	1799.909

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: PB165171BS Acquired: 12/02/2024 17:39:03 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: LCS171 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0211864	.0542454	.0192693	.0666004	.1135897	.4466405
Stddev	.0021896	.0027329	.0037498	.0059005	.0028777	.0100191
%RSD	10.33490	5.037952	19.46009	8.859608	2.533406	2.243203
#1	.0235501	.0571293	.0235314	.0598095	.1155816	.4481775
#2	.0207814	.0539130	.0177993	.0704740	.1148969	.4359417
#3	.0192275	.0516940	.0164772	.0695177	.1102904	.4558022

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4392742	.0114972	.0110250	11.20980	.0247792	.1049058
Stddev	.0020036	.0001286	.0000266	.04195	.0011067	.0005505
%RSD	.4561050	1.118307	.2409583	.3742665	4.466405	.5247524
#1	.4370885	.0114189	.0110395	11.16336	.0239690	.1048995
#2	.4410237	.0116456	.0109943	11.24498	.0243284	.1043585
#3	.4397103	.0114272	.0110411	11.22106	.0260402	.1054594

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0548666	.2280424	.0361201	10.85195	.0899464	.0225484
Stddev	.0013506	.0028597	.0005242	.05615	.0008023	.0003692
%RSD	2.461537	1.254041	1.451129	.5173866	.8919759	1.637208
#1	.0560698	.2304328	.0355761	10.91152	.0906271	.0221376
#2	.0551244	.2288201	.0366218	10.84431	.0890618	.0226550
#3	.0534058	.2248742	.0361623	10.80001	.0901504	.0228525

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	10.97970	.1164797	.1386884	10.16643	.0184624	F -.006357
Stddev	.09972	.0057412	.0009754	.12894	.0020154	.000752
%RSD	.9081787	4.928927	.7032852	1.268319	10.91634	11.83696
#1	10.87626	.1100504	.1395142	10.05812	.0172891	-.005525
#2	10.98761	.1182945	.1376123	10.30906	.0207896	-.006989
#3	11.07522	.1210942	.1389386	10.13210	.0173085	-.006558

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: PB165171BS Acquired: 12/02/2024 17:39:03 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: LCS171 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F .0207135	.1985455	F .3346622	.0146301	.2202205	F .0065621
Stddev	.0004774	.0032070	.0007061	.0007466	.0013467	.0012117
%RSD	2.304665	1.615243	.2109769	5.103102	.6115398	18.46522
#1	.0207618	.2007191	.3338474	.0154915	.2205655	.0058888
#2	.0202137	.1948623	.3350456	.0142286	.2213612	.0058366
#3	.0211648	.2000551	.3350937	.0141701	.2187348	.0079610

Elem	Sr4077
Units	ppm
Avg	.2223722
Stddev	.0008383
%RSD	.3769925
#1	.2216258
#2	.2232792
#3	.2222117

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	989.0927	29445.86	5662.147	883.3980	1757.191
Stddev	5.6596	23.16	24.119	4.2285	11.875
%RSD	.5722024	.0786414	.4259696	.4786590	.6757821
#1	982.6290	29423.36	5680.674	878.5679	1744.647
#2	993.1590	29444.60	5634.875	886.4316	1768.259
#3	991.4902	29469.62	5670.891	885.1944	1758.666

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: PB165167BL Acquired: 12/02/2024 17:43:33 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: PBS167 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0044237	.0021160	-.001718	.0014755	-.002671	-.009664
Stddev	.0027810	.0020242	.000907	.0054469	.001798	.002116
%RSD	62.86503	95.66358	52.80989	369.1643	67.31363	21.89546
#1	.0013919	.0033724	-.000948	.0075748	-.003991	-.012011
#2	.0068560	-.000219	-.002718	-.002904	-.000623	-.007901
#3	.0050233	.003195	-.001487	-.000245	-.003398	-.009082

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.001660	.0000148	-.000147	-.005937	.0000595	.0002363
Stddev	.000278	.0000641	.000041	.005097	.0007591	.0003830
%RSD	16.78174	432.7137	27.83347	85.86015	1274.961	162.0603
#1	-.001960	-.000052	-.000173	-.009521	-.000794	-.000132
#2	-.001607	.000076	-.000167	-.008189	.000657	.000208
#3	-.001411	.000021	-.000100	-.000101	.000316	.000633

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0005556	-.012157	.0005101	-.020937	.0005092	.0003684
Stddev	.0011483	.012942	.0003218	.007116	.0002359	.0002295
%RSD	206.6906	106.4557	63.08405	33.98626	46.33053	62.29674
#1	.0006429	.002577	.0008714	-.013204	.0006703	.0006099
#2	-.000634	-.021684	.0002542	-.027209	.0006189	.0001530
#3	.001658	-.017364	.0004047	-.022397	.0002384	.0003425

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3618545	.0006343	-.000486	-.253192	.0015117	-.006075
Stddev	.2226119	.0042218	.000622	.071512	.0023586	.001534
%RSD	61.51973	665.6391	127.8893	28.24404	156.0198	25.24685
#1	.4439109	.0049228	-.000328	-.282167	.0017970	-.007846
#2	.1098616	-.003517	.000041	-.305669	-.000977	-.005159
#3	.5317910	.000497	-.001172	-.171740	.003715	-.005220

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: PB165167BL Acquired: 12/02/2024 17:43:33 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: PBS167 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000260	.0066258	.0002346	-.001458	.0012408	F -.025309
Stddev	.000179	.0065934	.0002681	.000285	.0007309	.000530
%RSD	68.89524	99.51071	114.2776	19.51360	58.90824	2.095034
#1	-.000135	.0142128	-.000052	-.001618	.0004035	-.025191
#2	-.000465	.0022836	.000276	-.001130	.0017512	-.024848
#3	-.000180	.0033810	.000480	-.001627	.0015678	-.025889

Elem	Sr4077
Units	ppm
Avg	-.000062
Stddev	.000154
%RSD	248.7795
#1	.000096
#2	-.000212
#3	-.000070

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	998.3797	29565.69	5653.176	880.8740	1831.807
Stddev	4.5234	119.14	11.431	7.3015	3.168
%RSD	.4530709	.4029754	.2022039	.8288912	.1729696
#1	994.7045	29433.22	5644.661	872.9570	1829.711
#2	997.0033	29599.78	5648.700	887.3429	1830.258
#3	1003.431	29664.08	5666.168	882.3221	1835.452

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: PB165167BS Acquired: 12/02/2024 17:48:05 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: LCS167 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0256142	.0507393	.0187383	.0669316	.1150869	.3972109
Stddev	.0068714	.0028205	.0014656	.0105400	.0012125	.0078688
%RSD	26.82645	5.558847	7.821536	15.74742	1.053581	1.981007
#1	.0278669	.0495759	.0187251	.0644404	.1164818	.3914906
#2	.0178992	.0539555	.0202105	.0578603	.1144938	.3939575
#3	.0310764	.0486866	.0172793	.0784940	.1142851	.4061847

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4476521	.0115618	.0111267	11.48568	.0242909	.1068403
Stddev	.0077241	.0001438	.0002128	.18920	.0008169	.0002042
%RSD	1.725469	1.243658	1.912461	1.647302	3.362812	.1911463
#1	.4490661	.0116099	.0108840	11.54382	.0239234	.1069934
#2	.4393186	.0114002	.0112813	11.27423	.0252269	.1069192
#3	.4545715	.0116755	.0112149	11.63899	.0237222	.1066085

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0575504	.2222316	.0376266	10.91263	.0911214	.0229991
Stddev	.0008170	.0136003	.0008683	.16411	.0004959	.0010452
%RSD	1.419577	6.119876	2.307646	1.503853	.5442602	4.544707
#1	.0575471	.2211342	.0378973	10.97440	.0916926	.0219649
#2	.0567351	.2092133	.0366552	10.72660	.0908010	.0229775
#3	.0583690	.2363474	.0383273	11.03690	.0908704	.0240550

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	11.40736	.1228034	.1405954	10.36051	.0182698	F -.005974
Stddev	.43264	.0010072	.0009448	.29685	.0028696	.001880
%RSD	3.792654	.8202127	.6719914	2.865236	15.70698	31.46162
#1	11.86696	.1239213	.1396921	10.52970	.0196337	-.005750
#2	11.00799	.1225225	.1415769	10.01774	.0202031	-.007955
#3	11.34712	.1219664	.1405171	10.53409	.0149726	-.004216

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: PB165167BS Acquired: 12/02/2024 17:48:05 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: LCS167 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F .0207674	.2118097	F .3356850	.0127808	.2204205	F .0051323
Stddev	.0005855	.0059556	.0058537	.0021735	.0049408	.0014860
%RSD	2.819425	2.811750	1.743798	17.00639	2.241539	28.95409
#1	.0211276	.2175255	.3370104	.0151803	.2211159	.0034484
#2	.0210829	.2122632	.3292823	.0109438	.2151688	.0056886
#3	.0200918	.2056403	.3407623	.0122182	.2249768	.0062598

Elem	Sr4077
Units	ppm
Avg	.2259732
Stddev	.0037015
%RSD	1.638022
#1	.2266133
#2	.2219935
#3	.2293129

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	994.2871	29427.80	5712.508	880.9428	1758.283
Stddev	2.5555	41.56	71.076	.8493	3.023
%RSD	.2570188	.1412151	1.244215	.0964108	.1719048
#1	991.8963	29474.01	5689.373	881.6235	1754.832
#2	993.9846	29393.50	5792.269	879.9910	1760.458
#3	996.9804	29415.90	5655.882	881.2138	1759.559

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: PB165169BL Acquired: 12/02/2024 17:52:35 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: PBS169 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0058743	-.002530	-.003280	-.001607	-.001632	.0035061
Stddev	.0024653	.001498	.002465	.006197	.000602	.0121858
%RSD	41.96758	59.21806	75.13471	385.6012	36.87527	347.5576
#1	.0060669	-.001289	-.000493	.004323	-.002142	-.010558
#2	.0033184	-.004195	-.004175	-.008040	-.001787	.010918
#3	.0082377	-.002107	-.005172	-.001105	-.000968	.010159

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000773	.0000845	-.000099	-.009496	-.000699	-.000242
Stddev	.000317	.0000813	.000121	.004258	.000146	.000244
%RSD	41.04567	96.25279	122.3007	44.84068	20.91287	100.7641
#1	-.001014	.0001558	.000026	-.006477	-.000841	-.000012
#2	-.000413	-.000004	-.000107	-.014367	-.000549	-.000498
#3	-.000890	.000102	-.000217	-.007645	-.000708	-.000217

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0018422	-.012077	.0003111	.0067147	.0002069	.0004842
Stddev	.0014066	.015484	.0003406	.0375820	.0003901	.0003856
%RSD	76.35334	128.2033	109.4717	559.7015	188.5127	79.63440
#1	.0033427	.003817	.0002692	.0095439	.0005308	.0000947
#2	.0016303	-.027115	.0006707	.0428020	.0003160	.0008657
#3	.0005536	-.012934	-.000007	-.032202	-.000226	.0004921

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4104366	-.006135	-.000122	-.353905	-.000206	-.008321
Stddev	.1383811	.002327	.000671	.076901	.001393	.002958
%RSD	33.71558	37.92983	550.5333	21.72929	675.0743	35.54638
#1	.2798527	-.003777	-.000142	-.431407	.001029	-.005045
#2	.3959778	-.008430	-.000782	-.277619	-.001715	-.010795
#3	.5554795	-.006197	.000559	-.352689	.000067	-.009123

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: PB165169BL Acquired: 12/02/2024 17:52:35 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: PBS169 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000016	.0045933	.0000744	-.001554	-.000395	F -.027467
Stddev	.000461	.0043374	.0001986	.002776	.000874	.000813
%RSD	2862.085	94.43032	266.8248	178.5547	221.3844	2.959781
#1	.000474	.0001071	-.000064	-.004646	-.000966	-.026736
#2	-.000081	.0049079	.000302	-.000741	.000611	-.028343
#3	-.000441	.0087648	-.000014	.000724	-.000830	-.027324

Elem	Sr4077
Units	ppm
Avg	.0000837
Stddev	.0000600
%RSD	71.67258
#1	.0000670
#2	.0001503
#3	.0000339

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	997.3002	29556.31	5648.746	878.6168	1821.374
Stddev	4.7903	73.56	23.812	3.7330	11.363
%RSD	.4803250	.2488679	.4215511	.4248719	.6238674
#1	998.2578	29565.49	5622.371	874.6014	1825.931
#2	1001.539	29478.59	5668.664	881.9819	1829.750
#3	992.103	29624.84	5655.204	879.2673	1808.440

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: PB165169BSRE Acquired: 12/02/2024 17:57:06 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: LCS169 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0211086	.0584183	.0201127	.0729307	.1166110	.4182289
Stddev	.0041474	.0038665	.0027717	.0047802	.0020027	.0183254
%RSD	19.64796	6.618713	13.78072	6.554508	1.717452	4.381668
#1	.0170534	.0539904	.0220703	.0753123	.1188431	.4143527
#2	.0209299	.0601368	.0169412	.0760523	.1160186	.4021516
#3	.0253424	.0611278	.0213265	.0674275	.1149712	.4381823

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4481122	.0115350	.0112846	11.44014	.0240765	.1076290
Stddev	.0078275	.0002505	.0000883	.16989	.0007836	.0009191
%RSD	1.746769	2.171329	.7824100	1.485034	3.254426	.8539696
#1	.4530660	.0117593	.0112397	11.52373	.0238732	.1073627
#2	.4390883	.0112648	.0113863	11.24465	.0234147	.1086518
#3	.4521825	.0115809	.0112277	11.55205	.0249417	.1068724

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0547808	.2192352	.0377897	10.79265	.0921635	.0240816
Stddev	.0017308	.0131813	.0000833	.20397	.0006651	.0006332
%RSD	3.159423	6.012405	.2205182	1.889939	.7216091	2.629272
#1	.0534536	.2134139	.0377863	10.83442	.0929254	.0243419
#2	.0541503	.2099667	.0377081	10.57102	.0916993	.0233597
#3	.0567384	.2343250	.0378747	10.97251	.0918658	.0245431

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	11.23749	.1182244	F .1704911	10.36178	.0200717	F -.006290
Stddev	.05399	.0012349	.0018799	.33776	.0057906	.000393
%RSD	.4804753	1.044511	1.102620	3.259626	28.84964	6.249230
#1	11.29166	.1168135	.1716284	10.63403	.0158040	-.006726
#2	11.23713	.1187507	.1715236	9.98381	.0177478	-.006182
#3	11.18367	.1191089	.1683212	10.46750	.0266632	-.005963

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: PB165169BSRE Acquired: 12/02/2024 17:57:06 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: LCS169 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F .0212608	.2094811	F .3334768	.0146033	.2196613	F .0042850
Stddev	.0000594	.0091429	.0019818	.0014045	.0038931	.0008957
%RSD	.2794493	4.364547	.5942738	9.617703	1.772331	20.90300
#1	.0212796	.2168119	.3330360	.0130138	.2211456	.0053156
#2	.0213085	.2123949	.3317525	.0151193	.2152444	.0036945
#3	.0211943	.1992364	.3356419	.0156768	.2225939	.0038449

Elem	Sr4077
Units	ppm
Avg	.2241874
Stddev	.0039619
%RSD	1.767209
#1	.2260374
#2	.2196389
#3	.2268859

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	990.6531	29224.00	5713.854	875.4792	1741.788
Stddev	3.1406	39.36	59.493	3.7308	5.949
%RSD	.3170212	.1346681	1.041198	.4261479	.3415425
#1	987.3017	29183.76	5679.366	876.0956	1736.462
#2	991.1293	29225.82	5782.550	871.4785	1740.694
#3	993.5285	29262.41	5679.646	878.8634	1748.208

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4939-10 Acquired: 12/02/2024 18:01:37 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHW8 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1422919	-.012503	3.836556	-.014117	.0010922	70.53333	1.178644
Stddev	.0042168	.001373	.025553	.004493	.0012210	.13854	.002744
%RSD	2.963489	10.97814	.6660358	31.82306	111.7942	.1964184	.2328191
#1	.1445857	-.012967	3.856344	-.010160	.0024408	70.46346	1.177521
#2	.1374254	-.010959	3.845617	-.013190	.0000619	70.69289	1.181771
#3	.1448645	-.013584	3.807708	-.019001	.0007738	70.44364	1.176639

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0053365	.0197185	278.2339	.1349042	.1378730	.4866050	192.8133
Stddev	.0000970	.0001323	.5521	.0008755	.0012681	.0005554	.1305
%RSD	1.816939	.6709624	.1984339	.6490029	.9197751	.1141477	.0676727
#1	.0054471	.0198712	277.7466	.1341308	.1393343	.4861154	192.8042
#2	.0052663	.0196468	278.8335	.1358548	.1370621	.4864910	192.9481
#3	.0052959	.0196376	278.1216	.1347270	.1372224	.4872087	192.6876

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	10.60659	61.19184	.2493655	-.013322	1.992900	.1862987	1.594932
Stddev	.02723	.18612	.0025000	.000192	.080700	.0030328	.003345
%RSD	.2567134	.3041639	1.002539	1.444918	4.049395	1.627932	.2097179
#1	10.58362	61.22535	.2515420	-.013479	2.072380	.1831972	1.598003
#2	10.63667	61.35893	.2499196	-.013380	1.911032	.1892578	1.595425
#3	10.59947	60.99124	.2466350	-.013108	1.995289	.1864412	1.591368

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.995729	8.778076	.0351553	.0028108	2.956060	5.438023	.3456239
Stddev	.018559	.050727	.0035459	.0002503	.001242	.019672	.0045546
%RSD	.2321115	.5778875	10.08636	8.904200	.0420200	.3617576	1.317799
#1	8.005731	8.805028	.0374917	.0030560	2.955998	5.433112	.3494731
#2	8.007142	8.809638	.0368990	.0025557	2.957333	5.459686	.3468028
#3	7.974315	8.719561	.0310752	.0028207	2.954851	5.421272	.3405957

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4939-10 Acquired: 12/02/2024 18:01:37 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHW8 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	1.277082	.0768879	.3726768
Stddev	.002441	.0003731	.0007623
%RSD	.1911658	.4853032	.2045372
#1	1.275865	.0773184	.3724615
#2	1.279893	.0766864	.3735236
#3	1.275488	.0766588	.3720454

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1112.184	33468.24	6790.095	978.4989	1523.236
Stddev	6.124	60.06	25.740	2.2911	9.707
%RSD	.5506235	.1794644	.3790783	.2341451	.6372318
#1	1107.055	33534.77	6804.361	978.3313	1516.545
#2	1110.533	33418.02	6760.381	976.2961	1518.793
#3	1118.964	33451.92	6805.543	980.8691	1534.368

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4939-11 Acquired: 12/02/2024 18:18:40 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHW8D Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1428243	-.010869	3.825120	-.020292	.0017331	70.59770	1.186672
Stddev	.0129576	.006718	.069442	.001384	.0033977	.10717	.005133
%RSD	9.072424	61.80702	1.815425	6.818931	196.0402	.1518085	.4325615
#1	.1404540	-.005887	3.745270	-.021397	-.000397	70.71413	1.191462
#2	.1568034	-.008211	3.871382	-.018740	.005651	70.50316	1.181254
#3	.1312154	-.018509	3.858710	-.020739	-.000055	70.57582	1.187299

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0053538	.0196413	279.0816	.1349029	.1376909	.4859157	192.0791
Stddev	.0001247	.0006499	1.1691	.0007473	.0023666	.0018262	.1882
%RSD	2.328827	3.308835	.4189131	.5539457	1.718753	.3758191	.0979992
#1	.0054975	.0188932	279.3152	.1354871	.1351060	.4869547	192.2927
#2	.0052897	.0199639	277.8134	.1340608	.1397509	.4838071	191.9376
#3	.0052742	.0200667	280.1164	.1351607	.1382160	.4869852	192.0071

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	10.65840	60.89189	.2501317	-.012923	2.005563	.1926933	1.584304
Stddev	.04858	.16022	.0044812	.000239	.113005	.0029199	.007768
%RSD	.4558251	.2631302	1.791553	1.853036	5.634581	1.515317	.4902811
#1	10.66117	61.06975	.2449869	-.012728	2.073888	.1931672	1.581121
#2	10.60849	60.84709	.2522253	-.012850	1.875125	.1895655	1.593157
#3	10.70554	60.75884	.2531830	-.013190	2.067675	.1953474	1.578634

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	8.147773	8.744520	.0378610	.0029439	2.968259	5.379787	.3485247
Stddev	.059064	.163552	.0013875	.0002806	.063199	.025323	.0063843
%RSD	.7249127	1.870336	3.664801	9.532734	2.129149	.4707096	1.831803
#1	8.212836	8.556397	.0364483	.0029970	2.897015	5.364457	.3422216
#2	8.097530	8.852957	.0392219	.0031943	2.990198	5.365889	.3549872
#3	8.132954	8.824205	.0379127	.0026406	3.017565	5.409016	.3483653

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4939-11 Acquired: 12/02/2024 18:18:40 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHW8D Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	1.272213	.0852041	.3732008
Stddev	.004613	.0003271	.0009688
%RSD	.3625789	.3838691	.2595948
#1	1.277395	.0854078	.3742694
#2	1.268555	.0848268	.3723798
#3	1.270688	.0853775	.3729533

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1113.187	33246.10	6800.995	980.4138	1522.539
Stddev	8.595	66.98	27.132	3.2230	22.655
%RSD	.7721000	.2014612	.3989356	.3287370	1.487974
#1	1123.073	33182.48	6814.867	979.6778	1548.577
#2	1109.001	33239.85	6818.385	977.6224	1507.338
#3	1107.487	33315.99	6769.732	983.9411	1511.703

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4939-10LX5 Acquired: 12/02/2024 18:23:03 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHW8L Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0308194	.0018742	.8017881	-.005384	.0015090	16.42751	.2788744
Stddev	.0029609	.0027305	.0018735	.011671	.0012539	.04336	.0009246
%RSD	9.607316	145.6875	.2336636	216.7774	83.09573	.2639529	.3315602
#1	.0342377	-.000398	.8033258	.007989	.0014160	16.46770	.2799011
#2	.0290491	.001118	.7997015	-.013511	.0003042	16.43326	.2786148
#3	.0291715	.004903	.8023372	-.010629	.0028068	16.38155	.2781074

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0013078	.0035093	66.74340	.0323738	.0264185	.1123997	46.53984
Stddev	.0000518	.0001244	.06935	.0005361	.0006469	.0023298	.15712
%RSD	3.957614	3.545545	.1038997	1.656056	2.448602	2.072756	.3375928
#1	.0013060	.0033707	66.82050	.0321665	.0262557	.1097110	46.68290
#2	.0013605	.0036114	66.72358	.0319723	.0271313	.1136669	46.37169
#3	.0012570	.0035457	66.68612	.0329827	.0258687	.1138213	46.56491

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.607237	14.39973	.0517273	-.001290	.6090465	.0503048	.3858296
Stddev	.001558	.08708	.0012262	.000480	.4476351	.0070680	.0035614
%RSD	.0597377	.6047318	2.370519	37.20475	73.49769	14.05034	.9230620
#1	2.608929	14.48979	.0504780	-.000773	1.102534	.0427163	.3894323
#2	2.606917	14.39343	.0529290	-.001722	.229149	.0567005	.3857458
#3	2.605863	14.31597	.0517748	-.001376	.495457	.0514977	.3823108

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.752018	1.741244	.0052284	.0001367	.5912869	1.331744	.0688464
Stddev	.002711	.014479	.0003420	.0005860	.0095567	.002902	.0029785
%RSD	.1547585	.8315429	6.541897	428.6602	1.616259	.2179152	4.326268
#1	1.749225	1.728097	.0049115	-.000215	.5803614	1.330179	.0667804
#2	1.754640	1.756762	.0055910	.000813	.5980932	1.335093	.0722606
#3	1.752188	1.738872	.0051827	-.000189	.5954063	1.329960	.0674982

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4939-10LX5 Acquired: 12/02/2024 18:23:03 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHW8L Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.3019905	.0029708	.0884407
Stddev	.0009376	.0002147	.0002698
%RSD	.3104715	7.227399	.3050210
#1	.3025835	.0027579	.0887466
#2	.3024783	.0029673	.0882369
#3	.3009095	.0031873	.0883386

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1023.277	30254.36	5933.959	895.7901	1684.584
Stddev	5.746	98.90	26.656	7.6014	11.270
%RSD	.5615001	.3269089	.4492194	.8485706	.6690074
#1	1027.509	30142.16	5908.782	887.5350	1693.914
#2	1016.736	30328.88	5931.214	897.3348	1672.062
#3	1025.588	30292.06	5961.882	902.5005	1687.775

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4939-12 Acquired: 12/02/2024 18:27:30 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHW8S Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2233597	.0785530	3.910703	.1396785	.1580005	72.15838	4.651782
Stddev	.0069856	.0013992	.061919	.0019880	.0061101	2.02698	.131922
%RSD	3.127487	1.781204	1.583333	1.423242	3.867141	2.809078	2.835937
#1	.2186997	.0801627	3.839964	.1419280	.1516694	73.24886	4.718648
#2	.2313916	.0778672	3.955071	.1381576	.1638626	73.40669	4.736881
#3	.2199879	.0776289	3.937075	.1389500	.1584695	69.81959	4.499816

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0871852	.1229883	272.2556	.5011211	1.169065	.8727647	188.9566
Stddev	.0017205	.0020562	7.3603	.0019448	.020955	.0276297	4.9263
%RSD	1.973368	1.671828	2.703441	.3880995	1.792482	3.165770	2.607097
#1	.0880329	.1206387	275.8234	.5033011	1.145522	.8847045	191.5479
#2	.0883174	.1244583	277.1520	.4995639	1.185675	.8924167	192.0464
#3	.0852054	.1238681	263.7913	.5004982	1.175998	.8411729	183.2755

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	11.26077	59.28739	1.286953	.0710137	1.909745	1.070106	2.306292
Stddev	.30657	1.59508	.019630	.0005413	.253583	.022111	.013354
%RSD	2.722443	2.690428	1.525278	.7622268	13.27839	2.066207	.5790277
#1	11.41184	60.20378	1.265733	.0713029	2.018020	1.082597	2.315442
#2	11.46249	60.21283	1.304464	.0703893	2.091217	1.083144	2.312466
#3	10.90799	57.44555	1.290661	.0713491	1.619998	1.044577	2.290968

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.835525	8.859688	.0303806	.0017293	3.027680	5.350905	.3497913
Stddev	.301948	.140257	.0053736	.0005025	.053515	.090990	.0064196
%RSD	3.853580	1.583090	17.68768	29.05986	1.767531	1.700455	1.835268
#1	7.978071	8.701339	.0319080	.0022967	2.969566	5.406866	.3427062
#2	8.039812	8.968294	.0348253	.0015512	3.074929	5.399935	.3552213
#3	7.488692	8.909430	.0244087	.0013402	3.038543	5.245916	.3514465

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4939-12 Acquired: 12/02/2024 18:27:30 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHW8S Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	1.246210	.0779980	.3648605
Stddev	.031877	.0032939	.0102466
%RSD	2.557945	4.223101	2.808357
#1	1.259328	.0794496	.3701763
#2	1.269435	.0803168	.3713567
#3	1.209866	.0742276	.3530484

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1098.002	33203.84	6859.127	971.0600	1493.946
Stddev	10.197	159.91	132.752	8.5038	19.948
%RSD	.9286787	.4815861	1.935407	.8757187	1.335244
#1	1108.415	33031.76	6785.914	968.0128	1515.635
#2	1088.035	33231.93	6779.101	964.4997	1476.386
#3	1097.556	33347.85	7012.365	980.6675	1489.816

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4933-20 Acquired: 12/02/2024 18:31:48 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHX4 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1596951	-.003667	8.229097	-.004280	.0073362	62.10957
Stddev	.0034412	.003469	.074784	.010453	.0024940	.46208
%RSD	2.154841	94.59815	.9087750	244.2241	33.99545	.7439778
#1	.1591294	.000307	8.244396	-.012064	.0075635	62.37434
#2	.1633840	-.005222	8.295049	.007601	.0047364	62.37835
#3	.1565718	-.006086	8.147847	-.008378	.0097088	61.57601

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.192766	.0048372	.0169028	38.24252	.2051198	.1084252
Stddev	.017522	.0002105	.0002737	.24458	.0007481	.0012044
%RSD	.7990858	4.352480	1.619415	.6395541	.3647351	1.110827
#1	2.201420	.0048762	.0165970	38.37570	.2058379	.1094200
#2	2.204277	.0050254	.0171250	38.39162	.2043448	.1087695
#3	2.172600	.0046098	.0169863	37.96025	.2051768	.1070861

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5867728	160.0677	14.10635	14.53730	.2276946	-.008972
Stddev	.0034699	1.2538	.10788	.07606	.0025116	.000230
%RSD	.5913523	.7832790	.7647302	.5232213	1.103068	2.567220
#1	.5871634	160.7762	14.16091	14.55482	.2280201	-.009181
#2	.5900309	160.8067	14.17604	14.60307	.2300276	-.009011
#3	.5831241	158.6200	13.98209	14.45401	.2250360	-.008725

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.517484	.1867080	2.353887	7.490690	F 14.68206	.0258278
Stddev	.028487	.0003021	.015842	.095303	.11798	.0027323
%RSD	1.877227	.1617874	.6730315	1.272289	.8035508	10.57893
#1	1.487446	.1870416	2.371516	7.382916	14.68092	.0281639
#2	1.520894	.1864530	2.349299	7.563848	14.80060	.0264963
#3	1.544112	.1866295	2.340844	7.525306	14.56465	.0228233

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4933-20 Acquired: 12/02/2024 18:31:48 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHX4 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0125623	3.604401	5.874896	.3664152	1.320512	.0451842
Stddev	.0006501	.029211	.020732	.0024357	.010257	.0019075
%RSD	5.174712	.8104239	.3528983	.6647378	.7767374	4.221493
#1	.0118136	3.604280	5.878435	.3656994	1.323459	.0452823
#2	.0129836	3.633673	5.893630	.3691285	1.328973	.0470407
#3	.0128895	3.575251	5.852621	.3644175	1.309104	.0432296

Elem	Sr4077
Units	ppm
Avg	.1613661
Stddev	.0012287
%RSD	.7614497
#1	.1619674
#2	.1621783
#3	.1599525

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1149.022	34351.92	6797.194	1002.869	1667.829
Stddev	6.136	106.22	28.860	8.305	12.343
%RSD	.5340556	.3092226	.4245825	.8281224	.7400685
#1	1146.848	34231.27	6767.754	993.379	1665.274
#2	1144.269	34431.40	6798.392	1006.419	1656.964
#3	1155.950	34393.07	6825.436	1008.809	1681.250

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: CCV072 Acquired: 12/02/2024 18:40:49 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV072 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.428099	4.880174	24.91362	4.785274	4.642085	390.7166
Stddev	.053436	.033449	.15928	.025232	.028990	2.0354
%RSD	.9844321	.6853995	.6393165	.5272897	.6245041	.5209350
#1	5.489714	4.917835	25.09002	4.801609	4.643459	388.4346
#2	5.394459	4.853926	24.78034	4.756213	4.612432	391.3708
#3	5.400123	4.868760	24.87049	4.798001	4.670364	392.3444

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	10.02008	.4876336	2.639594	401.3631	15.08986	2.503323
Stddev	.10172	.0034860	.018717	2.4605	.54905	.015770
%RSD	1.015195	.7148802	.7090854	.6130368	3.638565	.6299810
#1	10.13040	.4899432	2.658147	404.1811	14.85626	2.516287
#2	9.99986	.4893338	2.620718	400.2674	15.71708	2.485766
#3	9.92999	.4836237	2.639918	399.6407	14.69623	2.507917

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	14.53854	396.7179	14.69380	410.5356	2.484223	1.251352
Stddev	.08574	2.8293	.08042	2.1386	.015094	.048974
%RSD	.5897298	.7131669	.5472972	.5209373	.6075774	3.913701
#1	14.63497	399.9354	14.78620	412.9889	2.498273	1.229135
#2	14.50978	395.5994	14.65560	409.5535	2.468267	1.307497
#3	14.47089	394.6189	14.63960	409.0645	2.486130	1.217424

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	391.9384	2.442577	14.08142	150.3260	4.747622	F 3.958282
Stddev	2.7169	.015155	.62266	.9640	.030032	.028767
%RSD	.6931875	.6204518	4.421848	.6412977	.6325615	.7267627
#1	395.0543	2.458693	13.77317	151.4302	4.778255	3.984359
#2	390.6966	2.428613	14.79807	149.8962	4.718230	3.963065
#3	390.0644	2.440425	13.67301	149.6516	4.746379	3.927423

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: CCV072 Acquired: 12/02/2024 18:40:49 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV072 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.702079	4.939255	F 3.317957	5.012079	4.888440	4.800623
Stddev	.033613	.024726	.015895	.028178	.029870	.024200
%RSD	.7148638	.5006054	.4790466	.5621993	.6110283	.5041011
#1	4.719068	4.961710	3.325812	5.041567	4.921675	4.827770
#2	4.663362	4.912756	3.328396	4.985425	4.879808	4.792787
#3	4.723807	4.943299	3.299665	5.009247	4.863836	4.781313

Elem	Sr4077
Units	ppm
Avg	4.934318
Stddev	.018899
%RSD	.3830070
#1	4.951896
#2	4.936729
#3	4.914330

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	808.9219	25967.47	5414.979	672.9847	1306.044
Stddev	3.5577	845.03	17.725	27.1402	7.617
%RSD	.4398071	3.254184	.3273300	4.032810	.5831996
#1	806.0960	26342.02	5394.516	685.7292	1297.563
#2	812.9171	24999.90	5424.890	641.8178	1312.302
#3	807.7526	26560.48	5425.532	691.4070	1308.265

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: CCB072 Acquired: 12/02/2024 18:45:28 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB072 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0037454	.0021896	-.002656	.0019967	.0029620	.1040408	.0007174
Stddev	.0070212	.0024775	.004856	.0008079	.0016866	.0164480	.0003640
%RSD	187.4633	113.1462	182.8159	40.46083	56.94117	15.80922	50.74314
#1	.0117929	-.000648	-.001668	.0023924	.0044578	.0851914	.0011038
#2	-.001130	.003925	-.007930	.0010673	.0032942	.1114497	.0003809
#3	.000573	.003291	.001629	.0025304	.0011340	.1154812	.0006674

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000091	-.000111	-.003254	-.000238	-.000009	.0022855	-.000111
Stddev	.000058	.000098	.010513	.001059	.000540	.0007945	.013020
%RSD	63.92353	88.86303	323.0267	445.8044	5839.859	34.76179	11767.99
#1	-.000141	-.000128	-.014086	-.000670	.000490	.0028189	-.010309
#2	-.000104	-.000005	-.002583	.000969	-.000582	.0013724	-.004578
#3	-.000027	-.000199	.006907	-.001012	.000064	.0026650	.014555

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0011243	-.007415	.0006571	.0009063	.2811537	-.002165	.0010026
Stddev	.0006585	.000382	.0006855	.0012709	.3832059	.003318	.0002551
%RSD	58.56655	5.150665	104.3210	140.2380	136.2976	153.2925	25.44424
#1	.0013218	-.007273	.0002436	.0012986	-.047380	-.005950	.0008993
#2	.0016615	-.007848	.0002793	-.000515	.188718	.000242	.0008154
#3	.0003897	-.007125	.0014483	.001935	.702123	-.000786	.0012932

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1069722	.0020827	.0024745	-.000121	.0017032	.0004412	-.000791
Stddev	.1524184	.0040691	.0005319	.000692	.0011013	.0004643	.001737
%RSD	142.4841	195.3785	21.49672	574.4482	64.66024	105.2362	219.5619
#1	-.062030	.0059087	.0030791	-.000303	.0025360	-.000082	.001112
#2	.234019	-.002192	.0020786	.000645	.0004545	.000803	-.001195
#3	.148928	.002532	.0022657	-.000703	.0021190	.000604	-.002291

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: CCB072 Acquired: 12/02/2024 18:45:28 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB072 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	-.000372	-.000660	.0001229
Stddev	.000852	.000835	.0000430
%RSD	228.6558	126.4333	34.96648
#1	-.000676	-.000701	.0001164
#2	.000589	.000194	.0000835
#3	-.001031	-.001474	.0001687

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1002.890	29646.22	5478.954	880.6765	1840.370
Stddev	2.835	519.65	88.840	10.5927	5.256
%RSD	.2827271	1.752837	1.621474	1.202794	.2856058
#1	1003.970	29488.84	5508.507	874.2760	1842.638
#2	1005.028	30226.37	5379.104	892.9035	1844.111
#3	999.674	29223.45	5549.250	874.8501	1834.360

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4917-03 Acquired: 12/02/2024 18:50:00 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MX1009 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6175292	.6292024	.5620538	.3121504	.2218987	2.403097	.8517112
Stddev	.0081004	.0087748	.0028592	.0050339	.0040938	.011753	.0048622
%RSD	1.311744	1.394588	.5087144	1.612661	1.844876	.4890860	.5708705
#1	.6268223	.6381347	.5589071	.3070213	.2198839	2.411833	.8548314
#2	.6119633	.6288785	.5627618	.3123465	.2192029	2.389734	.8461089
#3	.6138020	.6205941	.5644925	.3170834	.2266094	2.407723	.8541933

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4164189	.2537214	-.002901	.3709745	.1164784	.1605269	.7898155
Stddev	.0017269	.0005841	.014722	.0050409	.0004014	.0016407	.0269659
%RSD	.4147032	.2302013	507.5755	1.358836	.3445776	1.022072	3.414201
#1	.4172663	.2541587	.013185	.3745468	.1169057	.1609978	.7591329
#2	.4175584	.2530581	-.015706	.3731683	.1161094	.1587022	.8097494
#3	.4144320	.2539474	-.006181	.3652084	.1164201	.1618807	.8005642

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4236234	-.008786	1.534871	.6131900	.4443254	.4112683	.3435506
Stddev	.0012618	.041542	.002593	.0104627	.1215734	.0023839	.0068304
%RSD	.2978497	472.8367	.1689159	1.706269	27.36135	.5796556	1.988169
#1	.4240616	-.055502	1.536946	.6174757	.4730424	.4129216	.3445634
#2	.4222010	.024005	1.531965	.6208293	.3109644	.4085355	.3498180
#3	.4246076	.005140	1.535704	.6012649	.5489694	.4123476	.3362704

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.627612	-.000356	1.618613	.4723189	.0061240	.0470853	.0001217
Stddev	.099546	.004495	.014175	.0005196	.0030961	.0004806	.0021674
%RSD	15.86102	1262.347	.8757495	.1100097	50.55630	1.020688	1780.924
#1	-.589728	.004542	1.627518	.4724583	.0067497	.0473591	-.001740
#2	-.552570	-.001320	1.626053	.4717438	.0088594	.0473663	-.000397
#3	-.740537	-.004291	1.602267	.4727546	.0027629	.0465303	.002501

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4917-03 Acquired: 12/02/2024 18:50:00 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MX1009 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0006295	-.018866	.3836942
Stddev	.0020117	.000610	.0015912
%RSD	319.5583	3.235812	.4147073
#1	.0029439	-.018825	.3851891
#2	-.000699	-.018277	.3820216
#3	-.000356	-.019496	.3838720

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1015.065	30323.03	5724.379	900.3319	1857.416
Stddev	2.220	390.32	11.293	11.2692	4.544
%RSD	.2187300	1.287193	.1972819	1.251675	.2446663
#1	1013.514	30126.36	5711.958	897.6114	1854.538
#2	1017.608	30070.17	5734.027	890.6719	1862.655
#3	1014.072	30772.56	5727.153	912.7123	1855.055

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4917-01 Acquired: 12/02/2024 18:54:25 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MX1007 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.272203	2.335626	1.974357	1.051109	.6306557	73.67065
Stddev	.021038	.017541	.004729	.006099	.0034288	.05688
%RSD	.9259072	.7510181	.2395010	.5802072	.5436925	.0772047
#1	2.249044	2.337275	1.976024	1.048776	.6305205	73.69013
#2	2.277428	2.317319	1.969020	1.058030	.6341501	73.71523
#3	2.290135	2.352284	1.978026	1.046522	.6272964	73.60659

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.497357	F 1.983624	1.430332	66.33510	3.139273	2.269584
Stddev	.016471	.004856	.003517	.20771	.002364	.004432
%RSD	.3662414	.2448062	.2458757	.3131258	.0752892	.1952594
#1	4.506271	1.981064	1.428538	66.51964	3.141802	2.265581
#2	4.507450	1.980583	1.428074	66.37551	3.137119	2.268826
#3	4.478350	1.989224	1.434384	66.11015	3.138899	2.274346

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.434984	93.53656	5.201417	21.19554	1.492100	.5740294
Stddev	.001737	.17338	.020216	.11313	.003008	.0010559
%RSD	.1210768	.1853637	.3886611	.5337464	.2015634	.1839510
#1	1.435979	93.45092	5.219368	21.21470	1.488894	.5751713
#2	1.432978	93.73610	5.205366	21.29787	1.492545	.5738289
#3	1.435995	93.42266	5.179519	21.07406	1.494860	.5730882

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.170765	1.496944	4.070393	13.45916	2.712170	2.407167
Stddev	.314631	.010753	.016811	.09454	.007327	.003041
%RSD	5.098729	.7182999	.4130029	.7024334	.2701549	.1263418
#1	5.962326	1.497143	4.076061	13.49452	2.708837	2.409342
#2	6.017288	1.486093	4.083638	13.53093	2.707102	2.408468
#3	6.532681	1.507595	4.051481	13.35204	2.720571	2.403692

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4917-01 Acquired: 12/02/2024 18:54:25 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MX1007 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5387031	.7614920	8.157178	1.247967	3.031570	1.350209
Stddev	.0012877	.0203427	.028048	.006637	.002781	.004455
%RSD	.2390301	2.671420	.3438392	.5317908	.0917341	.3299764
#1	.5385352	.7556902	8.137508	1.252955	3.032394	1.352113
#2	.5375076	.7841052	8.144731	1.240435	3.028470	1.353396
#3	.5400664	.7446805	8.189295	1.250511	3.033846	1.345118

Elem	Sr4077
Units	ppm
Avg	2.759011
Stddev	.008094
%RSD	.2933814
#1	2.763727
#2	2.763642
#3	2.749665

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1089.038	32630.94	6416.614	952.2724	1688.163
Stddev	3.414	24.18	13.656	3.5087	4.707
%RSD	.3135185	.0740897	.2128232	.3684594	.2788454
#1	1092.209	32605.05	6415.231	950.2994	1691.853
#2	1089.483	32652.92	6430.908	950.1943	1689.774
#3	1085.424	32634.83	6403.701	956.3235	1682.861

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4917-01DLX2 Acquired: 12/02/2024 19:02:53 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MX1007 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.129291	1.215542	1.006422	.5697760	.3352305	38.92993
Stddev	.007874	.008045	.006629	.0082797	.0039255	.05877
%RSD	.6972810	.6618046	.6586907	1.453145	1.170975	.1509713
#1	1.124323	1.208894	.998911	.5793244	.3307516	38.86676
#2	1.125180	1.213247	1.008898	.5654191	.3368671	38.98299
#3	1.138370	1.224485	1.011457	.5645845	.3380729	38.94004

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.400495	F 1.046801	.7244951	35.45796	1.668734	1.143888
Stddev	.003353	.001210	.0028895	.09860	.045054	.006342
%RSD	.1396607	.1155671	.3988305	.2780824	2.699885	.5544217
#1	2.402204	1.046612	.7213799	35.56838	1.680922	1.136614
#2	2.402649	1.045698	.7250178	35.42680	1.618840	1.146795
#3	2.396633	1.048095	.7270876	35.37870	1.706440	1.148255

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7717054	50.33989	2.786441	11.27113	.7558171	.3003422
Stddev	.0035955	.14412	.006375	.09172	.0027570	.0095616
%RSD	.4659140	.2862993	.2288004	.8137826	.3647751	3.183553
#1	.7758020	50.19179	2.793257	11.16572	.7530533	.3036621
#2	.7690732	50.47967	2.780625	11.33281	.7558307	.2895632
#3	.7702409	50.34820	2.785440	11.31484	.7585673	.3078013

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.291297	.8001739	2.149449	6.827152	1.352504	1.302978
Stddev	.396964	.0024148	.043371	.019450	.002122	.007168
%RSD	12.06102	.3017885	2.017761	.2848956	.1569067	.5500920
#1	3.475708	.8029579	2.158708	6.804715	1.350865	1.297973
#2	2.835671	.7986469	2.102197	6.839236	1.351746	1.299773
#3	3.562513	.7989168	2.187443	6.837505	1.354901	1.311189

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4917-01DLX2 Acquired: 12/02/2024 19:02:53 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MX1007 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2864210	.3727935	4.355040	.6271899	1.628075	.7117451
Stddev	.0009725	.0080341	.003278	.0032425	.002920	.0013296
%RSD	.3395284	2.155097	.0752802	.5169833	.1793300	.1868042
#1	.2857151	.3635975	4.352337	.6309257	1.624901	.7108797
#2	.2860175	.3784507	4.358687	.6255376	1.630646	.7132760
#3	.2875302	.3763323	4.354097	.6251064	1.628679	.7110796

Elem	Sr4077
Units	ppm
Avg	1.468516
Stddev	.000581
%RSD	.0395449
#1	1.468486
#2	1.469111
#3	1.467951

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1043.283	31357.90	6064.336	923.1376	1719.780
Stddev	2.852	703.47	13.446	16.1924	7.192
%RSD	.2734133	2.243351	.2217185	1.754056	.4181795
#1	1044.974	31213.35	6071.756	922.0873	1727.089
#2	1044.886	32122.42	6048.815	939.8296	1719.539
#3	1039.990	30737.94	6072.436	907.4960	1712.712

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4917-01DL2X5 Acquired: 12/02/2024 19:16:26 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MX1007 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4536769	.4988882	.3994547	.2435320	.1358078	16.20456	.9813542
Stddev	.0139113	.0041876	.0033487	.0024949	.0020471	.01215	.0012496
%RSD	3.066335	.8393845	.8383176	1.024451	1.507323	.0750029	.1273381
#1	.4694441	.5014100	.4018298	.2459428	.1342928	16.21827	.9800861
#2	.4431345	.5012004	.3956246	.2409608	.1381367	16.19511	.9825845
#3	.4484522	.4940543	.4009097	.2436923	.1349941	16.20028	.9813919

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4311247	.2901586	14.83639	.7037773	.4587056	.3178790	20.90361
Stddev	.0021166	.0007340	.02384	.0025322	.0013960	.0021664	.03819
%RSD	.4909495	.2529750	.1606909	.3598009	.3043280	.6815204	.1827107
#1	.4313745	.2893111	14.80943	.7018822	.4582397	.3195423	20.93461
#2	.4288943	.2905959	14.84506	.7066532	.4576021	.3186656	20.86095
#3	.4331054	.2905687	14.85468	.7027965	.4602749	.3154292	20.91528

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.184484	4.695275	.3065797	.1257390	1.561127	.3383232	.8947657
Stddev	.002470	.044355	.0007201	.0005035	.332180	.0060891	.0031798
%RSD	.2085047	.9446803	.2348901	.4003932	21.27822	1.799801	.3553820
#1	1.183243	4.657188	.3059343	.1251791	1.819249	.3344801	.8917200
#2	1.187329	4.743973	.3064484	.1258835	1.677776	.3453438	.8945124
#3	1.182882	4.684664	.3073565	.1261544	1.186356	.3351457	.8980646

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.390023	.5380841	.5353943	.1177084	.1381073	1.710085	.2503677
Stddev	.060225	.0034675	.0075752	.0003782	.0009243	.010601	.0005691
%RSD	2.519852	.6444108	1.414888	.3213312	.6692940	.6198946	.2272978
#1	2.434268	.5377202	.5365908	.1178127	.1391105	1.717963	.2498496
#2	2.414364	.5417192	.5272920	.1172889	.1372901	1.698033	.2502769
#3	2.321437	.5348130	.5423001	.1180235	.1379212	1.714261	.2509768

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4917-01DL2X5 Acquired: 12/02/2024 19:16:26 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MX1007 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.6710937	.2812759	.6122179
Stddev	.0020637	.0003544	.0009373
%RSD	.3075169	.1260113	.1530962
#1	.6731114	.2815075	.6129411
#2	.6689868	.2814524	.6111590
#3	.6711829	.2808679	.6125537

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1023.338	30410.35	5873.889	905.8962	1766.573
Stddev	2.276	77.10	10.493	1.8816	1.801
%RSD	.2223911	.2535285	.1786308	.2077021	.1019399
#1	1022.104	30430.74	5863.380	907.6781	1766.239
#2	1025.965	30325.11	5884.365	906.0816	1768.517
#3	1021.947	30475.20	5873.922	903.9287	1764.962

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: PB165240BL Acquired: 12/02/2024 19:25:07 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: PBW240 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0053087	.0013031	-.004589	-.001241	.0008882	-.008864
Stddev	.0043290	.0057986	.002928	.002339	.0027248	.008132
%RSD	81.54633	444.9694	63.80015	188.4535	306.7618	91.74626
#1	.0061099	.0063052	-.004245	-.003061	.0037320	-.010379
#2	.0091811	-.005052	-.007674	.001397	-.001699	-.000081
#3	.0006350	.002657	-.001848	-.002060	.000632	-.016132

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000994	.0000366	-.000057	-.017415	-.000149	.0003160
Stddev	.000606	.0001688	.000023	.007033	.000629	.0002407
%RSD	60.94873	460.7772	39.78690	40.38446	422.2688	76.18125
#1	-.000362	-.000157	-.000031	-.012738	.000562	.0002244
#2	-.001570	.000150	-.000068	-.025503	-.000373	.0005890
#3	-.001050	.000118	-.000073	-.014004	-.000636	.0001345

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0009900	-.003868	.0000115	-.024718	.0003305	.0000948
Stddev	.0014176	.002643	.0004468	.019830	.0001787	.0001990
%RSD	143.1852	68.34611	3871.209	80.22350	54.06875	210.0351
#1	.0026269	-.003716	-.000485	-.044233	.0005355	-.000087
#2	.0001629	-.001304	.000381	-.004587	.0002479	.000307
#3	.0001803	-.006584	.000139	-.025335	.0002080	.000064

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.087027	-.003111	-.000687	-.547217	-.000215	-.003265
Stddev	.108698	.003269	.000361	.015514	.001506	.001014
%RSD	124.9014	105.0462	52.57211	2.835095	700.7799	31.05794
#1	-.113247	-.002100	-.000686	-.562991	.001007	-.003635
#2	.032383	-.006766	-.000327	-.531976	.000246	-.002118
#3	-.180216	-.000469	-.001050	-.546685	-.001898	-.004042

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: PB165240BL Acquired: 12/02/2024 19:25:07 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: PBW240 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000940	.0045346	-.000684	.0002537	.0000328	F -.024120
Stddev	.0004842	.0064927	.000151	.0020621	.0006544	.001304
%RSD	514.8820	143.1814	22.06238	812.8899	1992.537	5.406921
#1	-.000370	.0057209	-.000536	.0026168	.0007690	-.022627
#2	.000056	-.002469	-.000679	-.000675	-.000188	-.025039
#3	.000596	.010352	-.000837	-.001181	-.000483	-.024694

Elem	Sr4077
Units	ppm
Avg	-.000028
Stddev	.000096
%RSD	346.6817
#1	.000074
#2	-.000117
#3	-.000040

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1004.974	29771.63	5665.195	889.2543	1841.118
Stddev	1.937	27.47	31.047	2.5449	5.125
%RSD	.1927640	.0922829	.5480237	.2861864	.2783636
#1	1004.295	29762.90	5631.011	886.4089	1836.849
#2	1007.160	29802.41	5691.639	891.3130	1846.802
#3	1003.468	29749.59	5672.936	890.0410	1839.703

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: PB165240BS Acquired: 12/02/2024 19:29:39 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: LCS240 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0183126	.0556665	.0180074	.0693346	.1130064	.4017392
Stddev	.0039433	.0050535	.0020081	.0061404	.0028960	.0131851
%RSD	21.53313	9.078147	11.15161	8.856230	2.562688	3.281996
#1	.0144621	.0501954	.0176203	.0712278	.1135663	.3913328
#2	.0223425	.0566447	.0201808	.0743054	.1098714	.4165667
#3	.0181333	.0601593	.0162210	.0624705	.1155816	.3973182

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4402716	.0115325	.0109151	11.31126	.0230348	.1039109
Stddev	.0008609	.0000926	.0000913	.04261	.0007894	.0003657
%RSD	.1955488	.8026600	.8365012	.3767123	3.427123	.3519363
#1	.4412436	.0116391	.0110156	11.34431	.0223462	.1038039
#2	.4399664	.0114731	.0108372	11.32630	.0228619	.1043181
#3	.4396049	.0114852	.0108926	11.26317	.0238964	.1036106

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0532436	.2140007	.0369071	10.64044	.0893833	.0232287
Stddev	.0016348	.0096490	.0002742	.00450	.0006867	.0003541
%RSD	3.070380	4.508846	.7428320	.0422864	.7682398	1.524423
#1	.0513564	.2246059	.0371286	10.64452	.0894931	.0235357
#2	.0542233	.2057400	.0366005	10.64118	.0886483	.0228413
#3	.0541511	.2116562	.0369921	10.63562	.0900085	.0233091

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	10.74354	.1162938	.1402736	9.912490	.0161917	F -.003679
Stddev	.19959	.0012494	.0016707	.110000	.0025084	.001146
%RSD	1.857807	1.074327	1.191021	1.109707	15.49174	31.13442
#1	10.94238	.1177327	.1408691	9.968098	.0155238	-.003818
#2	10.54320	.1154843	.1415650	9.785789	.0189664	-.004749
#3	10.74505	.1156644	.1383868	9.983584	.0140848	-.002471

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: PB165240BS Acquired: 12/02/2024 19:29:39 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: LCS240 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F .0203585	.2019134	F .3278068	.0134092	.2162400	F .0064288
Stddev	.0007070	.0101928	.0017941	.0003750	.0013700	.0006827
%RSD	3.473008	5.048122	.5472953	2.796624	.6335649	10.61890
#1	.0195424	.2034064	.3298688	.0137676	.2178051	.0062981
#2	.0207856	.2112774	.3269481	.0134404	.2152577	.0058209
#3	.0207475	.1910564	.3266035	.0130195	.2156572	.0071674

Elem	Sr4077
Units	ppm
Avg	.2208098
Stddev	.0004786
%RSD	.2167337
#1	.2212771
#2	.2208316
#3	.2203207

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1000.834	29445.80	5683.845	877.0897	1766.108
Stddev	1.736	104.45	13.869	2.9707	.288
%RSD	.1734764	.3547116	.2440023	.3387022	.0163056
#1	1002.789	29326.07	5668.870	875.3249	1766.425
#2	999.470	29518.22	5686.419	875.4247	1766.035
#3	1000.244	29493.12	5696.247	880.5195	1765.863

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: PB165239BL Acquired: 12/02/2024 19:34:08 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: PBS239 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0031245	.0006855	-.002948	-.000893	-.000538	-.010957
Stddev	.0044469	.0016375	.000559	.005431	.003860	.004369
%RSD	142.3250	238.8929	18.95813	608.1219	717.4731	39.87008
#1	.0008854	-.001053	-.003429	.003390	-.004782	-.015899
#2	.0002422	.002199	-.003082	-.007002	.000403	-.009363
#3	.0082460	.000911	-.002335	.000933	.002765	-.007609

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000629	.0000370	-.000098	-.012749	.0001259	-.000244
Stddev	.000895	.0001224	.000147	.002383	.0005066	.000173
%RSD	142.3027	331.0016	150.1503	18.69256	402.5461	70.74009
#1	.000404	-.000067	-.000257	-.015435	-.000208	-.000145
#2	-.001150	.000006	-.000071	-.010891	-.000124	-.000144
#3	-.001140	.000172	.000034	-.011920	.000709	-.000443

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0008385	-.006291	.0001698	-.037296	.0004007	.0005819
Stddev	.0008323	.003373	.0003119	.018653	.0009278	.0003837
%RSD	99.25578	53.61667	183.6794	50.01320	231.5368	65.93672
#1	.0011663	-.009201	-.000154	-.017568	.0009487	.0010235
#2	-.000108	-.002594	.000468	-.054646	-.000671	.0003298
#3	.001457	-.007078	.000195	-.039674	.000924	.0003924

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0052136	.0021078	-.001061	-.593922	-.000153	-.005615
Stddev	.0968514	.0051622	.000924	.072947	.003302	.001528
%RSD	1857.659	244.9106	87.01581	12.28228	2164.569	27.22344
#1	.1090906	.0041100	-.000269	-.623460	-.003683	-.003995
#2	-.010845	-.003756	-.000839	-.647469	.002859	-.007031
#3	-.082605	.005969	-.002076	-.510838	.000366	-.005818

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: PB165239BL Acquired: 12/02/2024 19:34:08 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: PBS239 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000115	.0021165	-.000563	-.001549	.0004277	F -.026494
Stddev	.000509	.0030994	.000541	.001531	.0007722	.001717
%RSD	443.2313	146.4400	96.03107	98.85267	180.5616	6.479873
#1	.000214	-.001096	-.000279	-.002191	-.000443	-.027645
#2	.000143	.002357	-.000224	-.002654	.001029	-.024521
#3	-.000701	.005089	-.001187	.000199	.000698	-.027316

Elem	Sr4077
Units	ppm
Avg	.0000205
Stddev	.0000283
%RSD	137.9715
#1	-.000012
#2	.000036
#3	.000037

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1000.578	29606.59	5662.143	880.8022	1831.086
Stddev	4.540	67.31	6.382	6.5456	10.355
%RSD	.4536907	.2273636	.1127142	.7431446	.5655112
#1	995.390	29573.05	5660.500	875.9219	1819.456
#2	1003.820	29562.63	5656.743	888.2406	1839.308
#3	1002.525	29684.08	5669.186	878.2442	1834.494

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: PB165239BS Acquired: 12/02/2024 19:38:41 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: LCS239 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0254038	.0526820	.0184004	.0679765	.1182174	.3989846
Stddev	.0026021	.0014078	.0001809	.0031255	.0016085	.0043408
%RSD	10.24300	2.672329	.9829641	4.597979	1.360637	1.087956
#1	.0238892	.0516503	.0185138	.0678590	.1197646	.4039631
#2	.0284084	.0542858	.0181918	.0711591	.1165539	.3969986
#3	.0239139	.0521098	.0184956	.0649114	.1183339	.3959921

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4473832	.0115407	.0112706	11.49918	.0242092	.1069216
Stddev	.0008922	.0000712	.0000941	.03473	.0006934	.0008205
%RSD	.1994185	.6166335	.8351333	.3020206	2.864165	.7673966
#1	.4464671	.0116227	.0113264	11.46794	.0241250	.1074218
#2	.4474331	.0114949	.0111619	11.49303	.0235617	.1059747
#3	.4482493	.0115046	.0113234	11.53658	.0249409	.1073684

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0547073	.2211252	.0380759	10.73808	.0924535	.0245862
Stddev	.0036957	.0089202	.0002716	.01172	.0005732	.0018047
%RSD	6.755379	4.033981	.7134104	.1091365	.6199677	7.340392
#1	.0534456	.2294123	.0377624	10.72646	.0929947	.0227360
#2	.0518077	.2222789	.0382399	10.74990	.0918530	.0263418
#3	.0588686	.2116843	.0382255	10.73787	.0925129	.0246809

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	11.18817	.1193874	.1414336	10.04182	.0196248	F -.006594
Stddev	.34115	.0065260	.0026888	.09439	.0031996	.000743
%RSD	3.049199	5.466243	1.901081	.9399613	16.30382	11.27504
#1	11.34904	.1262502	.1384015	10.03267	.0228565	-.006259
#2	10.79633	.1186514	.1435277	10.14046	.0195598	-.007446
#3	11.41914	.1132606	.1423716	9.95235	.0164583	-.006077

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: PB165239BS Acquired: 12/02/2024 19:38:41 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: LCS239 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F .0204186	.2036408	F .3326297	.0138267	.2164898	F .0062765
Stddev	.0001216	.0126714	.0023871	.0022497	.0006509	.0002369
%RSD	.5955518	6.222410	.7176504	16.27098	.3006408	3.774825
#1	.0205516	.2084473	.3308427	.0115596	.2158303	.0060448
#2	.0203912	.1892694	.3317057	.0138618	.2171316	.0062662
#3	.0203131	.2132057	.3353407	.0160587	.2165075	.0065183

Elem	Sr4077
Units	ppm
Avg	.2238466
Stddev	.0002466
%RSD	.1101690
#1	.2237009
#2	.2237076
#3	.2241313

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	990.4552	29208.80	5662.656	874.6426	1749.526
Stddev	2.7237	542.82	24.280	12.1320	3.771
%RSD	.2749910	1.858426	.4287726	1.387079	.2155476
#1	991.9311	29755.23	5660.376	887.8244	1751.726
#2	992.1225	28669.65	5687.996	863.9449	1751.681
#3	987.3122	29201.53	5639.597	872.1585	1745.172

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: PB165169BS Acquired: 12/02/2024 19:43:11 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: LCS169 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0247985	.0557050	.0224028	.0701449	.1165360	.3897736
Stddev	.0017369	.0061309	.0008509	.0065150	.0017604	.0030888
%RSD	7.004216	11.00604	3.798086	9.287948	1.510633	.7924601
#1	.0236731	.0545585	.0227629	.0732790	.1157084	.3864296
#2	.0267989	.0623283	.0214311	.0626551	.1185577	.3903715
#3	.0239235	.0502283	.0230145	.0745005	.1153418	.3925198

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4414468	.0115342	.0111389	11.35282	.0237249	.1052923
Stddev	.0013482	.0002194	.0000581	.00959	.0007540	.0012466
%RSD	.3054086	1.901873	.5216113	.0844596	3.178215	1.183930
#1	.4428847	.0116140	.0110726	11.35599	.0232788	.1041269
#2	.4402112	.0117024	.0111810	11.34205	.0245955	.1051434
#3	.4412444	.0112861	.0111630	11.36042	.0233005	.1066067

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0572574	.2216688	.0373624	10.65130	.0909398	.0239134
Stddev	.0006469	.0069465	.0007227	.10996	.0012712	.0003640
%RSD	1.129829	3.133712	1.934158	1.032340	1.397793	1.522137
#1	.0573340	.2288470	.0370048	10.75853	.0896891	.0237665
#2	.0578625	.2149800	.0368883	10.65657	.0908998	.0243280
#3	.0565755	.2211793	.0381942	10.53881	.0922305	.0236459

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	10.90226	.1152517	.1386116	9.826325	.0203438	F -.006446
Stddev	.27826	.0066502	.0003859	.104603	.0007689	.000879
%RSD	2.552297	5.770123	.2783989	1.064517	3.779604	13.63242
#1	10.65547	.1222584	.1386004	9.936544	.0211427	-.005467
#2	11.20384	.1144692	.1390030	9.728429	.0196088	-.007167
#3	10.84748	.1090273	.1382314	9.814003	.0202800	-.006703

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: PB165169BS Acquired: 12/02/2024 19:43:11 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: LCS169 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F .0208648	.2036441	F .3272224	.0128084	.2162818	F .0057390
Stddev	.0007498	.0047315	.0012357	.0010380	.0018412	.0005148
%RSD	3.593443	2.323418	.3776204	8.103987	.8512891	8.969630
#1	.0216698	.1986599	.3286142	.0122941	.2159728	.0052932
#2	.0207382	.2080741	.3262546	.0140031	.2182580	.0056215
#3	.0201864	.2041985	.3267983	.0121280	.2146147	.0063024

Elem	Sr4077
Units	ppm
Avg	.2207978
Stddev	.0009554
%RSD	.4326889
#1	.2218903
#2	.2201190
#3	.2203841

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	994.4444	29371.20	5700.827	881.8103	1757.420
Stddev	5.7252	56.97	28.942	5.0268	11.520
%RSD	.5757171	.1939555	.5076828	.5700508	.6554916
#1	996.1239	29368.22	5667.488	876.3224	1763.945
#2	999.1420	29315.78	5719.511	882.9171	1764.197
#3	988.0673	29429.60	5715.480	886.1914	1744.119

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: CCV073 Acquired: 12/02/2024 19:47:41 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV073 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.408668	4.961160	24.78972	4.853045	4.661065	396.7876
Stddev	.110957	.081048	.47496	.119902	.104092	4.3635
%RSD	2.051457	1.633660	1.915938	2.470657	2.233229	1.099718
#1	5.505114	5.035236	25.21745	4.944312	4.757624	395.4700
#2	5.433487	4.973653	24.87312	4.897573	4.674773	401.6581
#3	5.287405	4.874590	24.27859	4.717249	4.550798	393.2347

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.975039	.4961033	2.622154	402.9302	15.29084	2.492788
Stddev	.180904	.0057322	.051712	4.9008	.12306	.049844
%RSD	1.813571	1.155438	1.972128	1.216300	.8047723	1.999528
#1	10.11815	.4977099	2.668291	403.2279	15.39942	2.534743
#2	10.03526	.5008607	2.631915	407.6754	15.15718	2.505931
#3	9.77170	.4897392	2.566257	397.8873	15.31593	2.437690

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	14.76213	402.6171	14.73170	417.2572	2.471713	1.262406
Stddev	.16529	5.2371	.16522	5.0625	.049670	.009239
%RSD	1.119711	1.300754	1.121557	1.213289	2.009554	.7318194
#1	14.80171	403.6935	14.73941	418.4397	2.517594	1.269577
#2	14.90404	407.2323	14.89293	421.6239	2.478577	1.251981
#3	14.58064	396.9255	14.56275	411.7081	2.418967	1.265659

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	398.7468	2.484295	14.27130	151.9522	4.864060	F 4.117855
Stddev	4.7834	.026703	.13857	1.9901	.103526	.063832
%RSD	1.199596	1.074875	.9709508	1.309710	2.128393	1.550133
#1	400.4214	2.494693	14.40406	152.0789	4.951330	4.096834
#2	402.4678	2.504235	14.12758	153.8759	4.891176	4.189547
#3	393.3513	2.453957	14.28227	149.9017	4.749675	4.067185

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: CCV073 Acquired: 12/02/2024 19:47:41 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV073 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.710976	4.960963	F 3.362017	4.986380	4.977685	4.834135
Stddev	.113329	.088577	.045325	.108495	.064824	.055326
%RSD	2.405630	1.785489	1.348149	2.175827	1.302284	1.144487
#1	4.812092	5.029863	3.360038	5.068961	5.001564	4.849759
#2	4.732356	4.991977	3.408298	5.026678	5.027182	4.879968
#3	4.588481	4.861049	3.317713	4.863502	4.904309	4.772676

Elem	Sr4077
Units	ppm
Avg	4.940190
Stddev	.047779
%RSD	.9671433
#1	4.927617
#2	4.992998
#3	4.899956

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	815.8334	25784.12	5439.880	670.2565	1322.447
Stddev	17.9266	187.78	59.871	5.6086	23.841
%RSD	2.197333	.7282800	1.100599	.8367781	1.802815
#1	799.7731	25664.80	5448.241	665.5277	1301.622
#2	812.5538	26000.57	5376.267	676.4530	1317.267
#3	835.1734	25686.98	5495.131	668.7887	1348.453

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: CCB073 Acquired: 12/02/2024 19:52:18 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB073 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0086687	.0017603	-.001731	.0016634	.0017268	.0453551	-.000733
Stddev	.0036245	.0047812	.000953	.0032519	.0016998	.0054672	.000598
%RSD	41.81187	271.6131	55.06653	195.5044	98.43926	12.05424	81.50740
#1	.0127695	.0012178	-.000802	.0030359	-.000196	.0390920	-.001119
#2	.0073422	-.002727	-.002707	.0040040	.003029	.0491728	-.000045
#3	.0058942	.006790	-.001684	-.002050	.002347	.0478004	-.001036

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000140	-.000084	.0108938	.0011544	-.000039	.0008739	-.002602
Stddev	.0000893	.000093	.0076752	.0006742	.000241	.0015656	.009215
%RSD	638.9103	110.9847	70.45511	58.40224	616.6768	179.1466	354.1905
#1	.0000668	-.000099	.0056283	.0017288	-.000183	.0021529	.004435
#2	.0000643	.000016	.0197003	.0013221	.000239	-.000872	.000793
#3	-.000089	-.000168	.0073528	.0004122	-.000174	.001341	-.013033

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0007139	-.027658	.0003658	.0002117	.2562805	-.002269	.0004193
Stddev	.0003688	.038064	.0003512	.0007449	.2681648	.006002	.0001933
%RSD	51.66436	137.6248	96.01186	351.8276	104.6372	264.4984	46.10163
#1	.0007199	-.056917	-.000018	.0008739	.4722051	-.003210	.0004525
#2	.0003421	-.041433	.000671	-.000595	.3405283	-.007746	.0005938
#3	.0010796	.015376	.000444	.000356	-.043892	.004148	.0002115

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.123167	.0012776	-.000106	-.000085	.0002470	.0005940	.0002105
Stddev	.204086	.0009761	.001101	.000350	.0028151	.0002415	.0009167
%RSD	165.6980	76.40462	1039.740	408.9346	1139.681	40.65933	435.3718
#1	.105787	.0008102	-.001261	.000295	-.003000	.0008727	.0003812
#2	-.285976	.0006231	.000933	-.000393	.002002	.0004649	-.000779
#3	-.189314	.0023996	.000010	-.000158	.001739	.0004445	.001030

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: CCB073 Acquired: 12/02/2024 19:52:18 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB073 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	-.000184	-.011843	.0000591
Stddev	.001099	.002528	.0000367
%RSD	598.9921	21.34907	62.08007
#1	.000638	-.010777	.0000351
#2	.000244	-.010022	.0000408
#3	-.001432	-.014729	.0001013

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	997.2545	29686.49	5633.063	882.6831	1822.916
Stddev	2.2924	349.48	13.522	5.4305	2.776
%RSD	.2298756	1.177242	.2400462	.6152235	.1523016
#1	998.8159	29452.60	5618.082	880.0817	1824.740
#2	994.6226	30088.23	5636.743	888.9249	1819.721
#3	998.3250	29518.63	5644.364	879.0427	1824.287

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4933-21 Acquired: 12/02/2024 19:56:50 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHX4D Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1622279	-.003376	8.113078	.0015353	.0091714	63.08539
Stddev	.0020554	.002733	.093882	.0056767	.0018068	.15269
%RSD	1.266968	80.96520	1.157163	369.7569	19.70017	.2420368
#1	.1639835	-.002796	8.143875	.0064352	.0104100	63.26107
#2	.1627332	-.000979	8.007666	-.004685	.0070982	62.98463
#3	.1599670	-.006353	8.187693	.002856	.0100061	63.01048

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.185492	.0050742	.0163605	37.96051	.2054112	.1067059
Stddev	.008978	.0001122	.0001764	.07020	.0002906	.0008207
%RSD	.4107982	2.210742	1.078079	.1849274	.1414937	.7691048
#1	2.195841	.0050827	.0165445	38.02945	.2050914	.1067502
#2	2.180843	.0051819	.0161928	37.96297	.2056592	.1058640
#3	2.179792	.0049581	.0163442	37.88912	.2054831	.1075036

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5948309	162.1199	14.04724	14.84786	.2254370	-.009535
Stddev	.0027546	.0563	.02981	.10504	.0028427	.000263
%RSD	.4630926	.0347364	.2121795	.7074239	1.260951	2.756360
#1	.5979977	162.0668	14.07747	14.76583	.2264100	-.009659
#2	.5935057	162.1790	14.04637	14.81150	.2222356	-.009714
#3	.5929894	162.1140	14.01787	14.96625	.2276654	-.009234

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.324043	.1827940	2.345859	7.721301	F 14.81294	.0363197
Stddev	.077487	.0034636	.014386	.092553	.15277	.0007724
%RSD	5.852305	1.894795	.6132497	1.198668	1.031345	2.126697
#1	1.353641	.1831684	2.361377	7.744903	14.83519	.0368266
#2	1.382368	.1791584	2.332966	7.799767	14.65026	.0354307
#3	1.236119	.1860551	2.343234	7.619232	14.95336	.0367018

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4933-21 Acquired: 12/02/2024 19:56:50 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHX4D Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0129313	3.563428	6.080490	.3629759	1.339330	.0496474
Stddev	.0003869	.059194	.042471	.0065190	.001969	.0006746
%RSD	2.991994	1.661157	.6984748	1.795982	.1470352	1.358717
#1	.0131846	3.552965	6.126072	.3637347	1.341563	.0490262
#2	.0124859	3.510163	6.073366	.3561107	1.337843	.0503649
#3	.0131232	3.627156	6.042031	.3690822	1.338583	.0495510

Elem	Sr4077
Units	ppm
Avg	.1622765
Stddev	.0002153
%RSD	.1326775
#1	.1625010
#2	.1622567
#3	.1620717

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1151.467	34433.46	6734.786	1009.263	1692.114
Stddev	5.776	60.83	30.779	4.089	14.078
%RSD	.5016491	.1766681	.4570131	.4051175	.8319958
#1	1149.198	34446.05	6705.436	1004.647	1684.329
#2	1158.033	34487.02	6732.104	1012.430	1708.365
#3	1147.169	34367.32	6766.818	1010.711	1683.647

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4933-20LX5 Acquired: 12/02/2024 20:01:12 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHX4L Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0300672	.0007562	1.664010	.0012860	.0016282	15.35287	.5266577
Stddev	.0034867	.0024559	.055665	.0063072	.0014090	.20167	.0083010
%RSD	11.59641	324.7883	3.345244	490.4452	86.53735	1.313573	1.576163
#1	.0339046	.0001636	1.720221	.0052743	.0024268	15.48568	.5311775
#2	.0292036	-.001349	1.662902	.0045693	.0024566	15.45213	.5317180
#3	.0270935	.003454	1.608907	-.005986	.0000013	15.12081	.5170777

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0014915	.0028892	9.265244	.0494765	.0211916	.1443544	39.61585
Stddev	.0001117	.0000560	.147964	.0013093	.0006794	.0031233	.53053
%RSD	7.486870	1.939641	1.596975	2.646313	3.206143	2.163625	1.339183
#1	.0015912	.0028254	9.335173	.0500373	.0216492	.1474838	40.02513
#2	.0013708	.0029120	9.365281	.0504120	.0215146	.1443420	39.80596
#3	.0015123	.0029303	9.095277	.0479802	.0204109	.1412373	39.01646

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.476873	3.573607	.0461663	-.002180	.6834793	.0459793	.5732935
Stddev	.052596	.054360	.0013992	.000500	.2888943	.0019337	.0092490
%RSD	1.512740	1.521150	3.030814	22.93374	42.26819	4.205569	1.613301
#1	3.503892	3.621806	.0477531	-.002089	.4828920	.0473831	.5817987
#2	3.510469	3.584332	.0451094	-.001731	.5529408	.0437737	.5746346
#3	3.416260	3.514684	.0456365	-.002719	1.014605	.0467812	.5634473

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.684737	2.967957	.0065059	.0027753	.7149422	1.545638	.0719611
Stddev	.106951	.084938	.0013503	.0008371	.0256076	.024637	.0036703
%RSD	6.348236	2.861824	20.75466	30.16375	3.581778	1.593964	5.100448
#1	1.788900	3.049048	.0053009	.0036846	.7398078	1.568538	.0760979
#2	1.690111	2.975187	.0062515	.0020365	.7163669	1.548805	.0706906
#3	1.575201	2.879635	.0079653	.0026048	.6886520	1.519571	.0690949

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4933-20LX5 Acquired: 12/02/2024 20:01:12 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHX4L Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.3261334	-.003291	.0394178
Stddev	.0072861	.001647	.0006378
%RSD	2.234100	50.04382	1.618028
#1	.3320386	-.001626	.0398699
#2	.3283706	-.004920	.0396953
#3	.3179909	-.003327	.0386883

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1042.671	30952.29	5960.050	921.5832	1783.731
Stddev	1.444	346.58	48.714	11.7198	5.660
%RSD	.1384853	1.119727	.8173351	1.271707	.3173249
#1	1043.710	30725.37	5932.047	914.0002	1778.846
#2	1043.281	30780.27	5931.804	915.6675	1782.413
#3	1041.023	31351.23	6016.300	935.0818	1789.934

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4933-22 Acquired: 12/02/2024 20:05:38 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHX4S Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2902521	.1690497	7.917450	.2934867	.2967192	68.18811
Stddev	.0052508	.0054733	.033923	.0137106	.0058036	1.34301
%RSD	1.809051	3.237689	.4284570	4.671627	1.955905	1.969573
#1	.2939272	.1627965	7.937613	.3014315	.2949222	67.21061
#2	.2842383	.1713825	7.878285	.2776551	.2920268	67.63425
#3	.2925907	.1729701	7.936451	.3013735	.3032088	69.71948

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	8.898882	.1691124	.2055919	36.74989	.9330075	2.025949
Stddev	.170284	.0026898	.0006576	.69500	.0060863	.008762
%RSD	1.913541	1.590565	.3198454	1.891169	.6523326	.4324982
#1	8.834347	.1673291	.2055606	36.36671	.9331771	2.028000
#2	8.770299	.1678017	.2049505	36.33082	.9390072	2.016344
#3	9.092001	.1722063	.2062645	37.55214	.9268381	2.033504

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.362054	159.4671	15.20625	14.38863	2.150929	.1488427
Stddev	.031434	3.0864	.30775	.26563	.008178	.0018413
%RSD	2.307805	1.935426	2.023872	1.846093	.3801996	1.237092
#1	1.341890	157.3652	15.03638	14.16441	2.155055	.1494936
#2	1.346000	158.0256	15.02087	14.31949	2.141510	.1502702
#3	1.398273	163.0104	15.56150	14.68199	2.156221	.1467644

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.439739	1.961480	3.698847	7.463840	F 14.31320	.0338986
Stddev	.187406	.037048	.006648	.190365	.05979	.0024196
%RSD	13.01665	1.888770	.1797278	2.550499	.4177408	7.137777
#1	1.648260	1.926358	3.695714	7.256556	14.34899	.0326516
#2	1.285376	1.957889	3.706483	7.504126	14.24418	.0323568
#3	1.385580	2.000192	3.694345	7.630837	14.34644	.0366873

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4933-22 Acquired: 12/02/2024 20:05:38 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHX4S Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0119357	3.524142	6.302083	.3497348	1.325156	.0458988
Stddev	.0005050	.009901	.081777	.0015775	.026812	.0020596
%RSD	4.231103	.2809390	1.297626	.4510598	2.023307	4.487229
#1	.0117906	3.514822	6.256507	.3510959	1.306625	.0440526
#2	.0115192	3.523068	6.253249	.3480059	1.312942	.0455236
#3	.0124974	3.534536	6.396492	.3501025	1.355900	.0481202

Elem	Sr4077
Units	ppm
Avg	.1571127
Stddev	.0029248
%RSD	1.861609
#1	.1551664
#2	.1556955
#3	.1604761

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1140.825	34357.26	6750.146	1001.213	1684.499
Stddev	4.795	154.10	96.326	.568	5.380
%RSD	.4203073	.4485151	1.427024	.0567201	.3193799
#1	1141.831	34299.33	6804.212	1000.924	1683.914
#2	1145.038	34240.53	6807.293	1000.848	1690.148
#3	1135.607	34531.93	6638.932	1001.868	1679.436

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4912-04 Acquired: 12/02/2024 20:10:02 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHJ4 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1285670	-.008908	5.728064	-.014104	.0090771	68.79102
Stddev	.0085388	.000998	.056729	.003270	.0062477	2.25251
%RSD	6.641505	11.20701	.9903693	23.18289	68.82888	3.274420
#1	.1240940	-.009588	5.767273	-.010470	.0018814	71.39196
#2	.1231940	-.009375	5.663015	-.015035	.0131220	67.50028
#3	.1384131	-.007762	5.753903	-.016807	.0122278	67.48081

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.922010	.0049289	.0264034	174.1565	.1850624	.0929107
Stddev	.090930	.0001290	.0003302	5.4605	.0012391	.0012691
%RSD	3.111887	2.617411	1.250433	3.135382	.6695537	1.365949
#1	3.027004	.0049532	.0265307	180.4563	.1836699	.0941846
#2	2.870096	.0050440	.0260286	171.2339	.1860432	.0916464
#3	2.868929	.0047895	.0266510	170.7794	.1854741	.0929012

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6170452	211.9697	12.19088	35.26707	.1999651	-.014440
Stddev	.0191727	6.7895	.38587	1.06310	.0020746	.000773
%RSD	3.107184	3.203034	3.165233	3.014420	1.037455	5.349923
#1	.6391174	219.8070	12.63629	36.49438	.2017737	-.015320
#2	.6074949	207.8803	11.97826	34.63201	.1977005	-.014129
#3	.6045234	208.2218	11.95808	34.67482	.2004212	-.013872

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.173157	.1942330	3.393068	7.798688	F 15.30261	.0511042
Stddev	.097496	.0046106	.012353	.316303	.15955	.0062594
%RSD	4.486393	2.373744	.3640607	4.055853	1.042657	12.24837
#1	2.237695	.1988445	3.379777	8.158745	15.44399	.0533132
#2	2.220774	.1942313	3.395229	7.671733	15.12962	.0559596
#3	2.061003	.1896233	3.404198	7.565585	15.33422	.0440398

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4912-04 Acquired: 12/02/2024 20:10:02 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHJ4 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0053782	3.358757	6.201694	.2780170	1.491792	.0718323
Stddev	.0007299	.027245	.162665	.0053782	.045673	.0033035
%RSD	13.57179	.8111711	2.622908	1.934484	3.061633	4.598956
#1	.0046888	3.378000	6.389513	.2811252	1.544515	.0755852
#2	.0061429	3.327581	6.106038	.2718068	1.464287	.0705477
#3	.0053030	3.370689	6.109532	.2811191	1.466576	.0693641

Elem	Sr4077
Units	ppm
Avg	.4383770
Stddev	.0143655
%RSD	3.276975
#1	.4549646
#2	.4300015
#3	.4301649

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1117.899	33525.11	6578.793	985.8364	1596.977
Stddev	7.049	70.80	169.093	3.2163	13.230
%RSD	.6305673	.2111915	2.570275	.3262497	.8284335
#1	1112.199	33501.41	6384.239	989.1554	1585.640
#2	1125.781	33469.21	6661.783	982.7337	1611.514
#3	1115.717	33604.73	6690.356	985.6201	1593.778

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4912-05 Acquired: 12/02/2024 20:14:24 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHJ4D Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1274656	-.010817	5.772407	-.015726	.0072573	65.83040
Stddev	.0047285	.001587	.047644	.002901	.0009115	.82299
%RSD	3.709591	14.67258	.8253776	18.44383	12.55988	1.250168
#1	.1249139	-.009263	5.737667	-.013079	.0078496	64.91907
#2	.1245612	-.012436	5.752833	-.015273	.0062077	66.05280
#3	.1329218	-.010752	5.826720	-.018827	.0077146	66.51934

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.799273	.0049025	.0270064	167.5942	.1813938	.0929122
Stddev	.033280	.0001352	.0002142	1.7143	.0015896	.0017551
%RSD	1.188883	2.757669	.7930217	1.022900	.8763090	1.889000
#1	2.762054	.0048028	.0269172	165.6986	.1801001	.0911646
#2	2.809600	.0048482	.0268512	168.0483	.1809129	.0928972
#3	2.826166	.0050564	.0272507	169.0358	.1831682	.0946748

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5883362	203.1120	11.74070	33.80172	.2008294	-.013152
Stddev	.0103067	2.3952	.10752	.44565	.0017458	.000344
%RSD	1.751836	1.179260	.9157502	1.318429	.8692940	2.612372
#1	.5787595	200.4908	11.62009	33.33792	.1997515	-.013519
#2	.5870055	203.6585	11.77552	33.84056	.1998932	-.013098
#3	.5992436	205.1868	11.82650	34.22668	.2028436	-.012838

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.962810	.1877419	3.373737	7.218514	F 15.41805	.0482869
Stddev	.313042	.0025653	.037222	.197318	.11757	.0007090
%RSD	15.94866	1.366411	1.103275	2.733496	.7625727	1.468372
#1	1.622538	.1850880	3.357520	7.038926	15.38799	.0474783
#2	2.238569	.1879294	3.347376	7.186877	15.31842	.0485798
#3	2.027321	.1902083	3.416316	7.429739	15.54773	.0488025

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4912-05 Acquired: 12/02/2024 20:14:24 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHJ4D Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0052160	3.376825	5.984959	.2758817	1.431474	.0652557
Stddev	.0001838	.037083	.069285	.0036966	.019351	.0011667
%RSD	3.524320	1.098158	1.157660	1.339928	1.351826	1.787808
#1	.0053987	3.334672	5.907351	.2763806	1.410461	.0639959
#2	.0050311	3.391383	6.006937	.2719609	1.435400	.0662987
#3	.0052183	3.404420	6.040591	.2793035	1.448561	.0654726

Elem	Sr4077
Units	ppm
Avg	.4197382
Stddev	.0048150
%RSD	1.147145
#1	.4145251
#2	.4206709
#3	.4240187

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1110.339	33372.74	6777.492	986.0555	1585.771
Stddev	3.590	260.74	69.107	6.9004	10.246
%RSD	.3233197	.7812947	1.019659	.6997956	.6461337
#1	1107.961	33562.31	6857.235	988.7000	1592.152
#2	1114.469	33480.51	6740.176	991.2425	1591.208
#3	1108.589	33075.39	6735.064	978.2240	1573.952

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4912-04LX5 Acquired: 12/02/2024 20:18:46 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHJ4L Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0349018	.0006350	1.207942	.0000805	.0014874	15.55496	.6569110
Stddev	.0054696	.0030828	.003465	.0012954	.0026439	.03278	.0008437
%RSD	15.67129	485.5294	.2868320	1609.299	177.7530	.2107329	.1284373
#1	.0354539	-.000586	1.208148	.0015375	-.001135	15.54915	.6560316
#2	.0400744	-.001650	1.211300	-.000355	.001445	15.52547	.6569875
#3	.0291772	.004141	1.204379	-.000941	.004152	15.59025	.6577138

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0013434	.0049560	39.99152	.0430014	.0182140	.1394299	49.25507
Stddev	.0000694	.0001436	.09461	.0006597	.0003487	.0024928	.20023
%RSD	5.167917	2.898149	.2365876	1.534175	1.914615	1.787836	.4065115
#1	.0013204	.0049038	39.88303	.0430904	.0183030	.1384157	49.39123
#2	.0014214	.0048458	40.05695	.0436121	.0178294	.1422699	49.02517
#3	.0012884	.0051184	40.03456	.0423017	.0185097	.1376041	49.34883

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.842121	8.150068	.0420265	-.001388	.4098684	.0419478	.8145110
Stddev	.004556	.010769	.0005916	.000844	.2574696	.0026174	.0024395
%RSD	.1602906	.1321294	1.407784	60.83172	62.81764	6.239760	.2995100
#1	2.840718	8.161167	.0427085	-.001940	.2608677	.0398193	.8121039
#2	2.847213	8.149375	.0416508	-.000416	.2615691	.0411538	.8169817
#3	2.838432	8.139663	.0417202	-.001806	.7071685	.0448704	.8144474

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.383192	3.129352	.0052437	.0003365	.6811190	1.490795	.0557425
Stddev	.062141	.010132	.0019471	.0002558	.0081827	.002321	.0017103
%RSD	4.492610	.3237625	37.13339	76.01047	1.201366	.1557184	3.068125
#1	1.452094	3.132694	.0048707	.0002321	.6902092	1.488609	.0537749
#2	1.331393	3.137390	.0035100	.0001495	.6788066	1.490544	.0568717
#3	1.366088	3.117971	.0073503	.0006280	.6743414	1.493232	.0565810

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4912-04LX5 Acquired: 12/02/2024 20:18:46 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHJ4L Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.3412137	-.002154	.0996719
Stddev	.0010103	.000577	.0000787
%RSD	.2960804	26.78654	.0789838
#1	.3405060	-.002797	.0997523
#2	.3407644	-.001681	.0995950
#3	.3423706	-.001984	.0996685

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1033.062	30475.14	5897.037	913.2130	1739.859
Stddev	4.497	189.54	11.181	4.0816	9.042
%RSD	.4352990	.6219498	.1896119	.4469481	.5197089
#1	1029.728	30570.27	5902.067	915.5689	1735.873
#2	1031.280	30256.87	5904.820	908.5000	1733.494
#3	1038.176	30598.26	5884.224	915.5702	1750.209

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4912-06 Acquired: 12/02/2024 20:23:12 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHJ4S Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2023183	.0838450	5.707644	.1337661	.1643850	70.19762
Stddev	.0136169	.0022091	.005554	.0016443	.0040728	.04232
%RSD	6.730449	2.634723	.0972996	1.229221	2.477566	.0602869
#1	.1926207	.0856467	5.701647	.1333239	.1649700	70.19774
#2	.1964486	.0845079	5.712609	.1323880	.1681337	70.23989
#3	.2178857	.0813803	5.708676	.1355862	.1600515	70.15524

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.446444	.0925175	.1258003	169.0614	.5644783	1.096744
Stddev	.012427	.0004876	.0005239	.4635	.0130089	.002692
%RSD	.1927675	.5269892	.4164611	.2741902	2.304591	.2454508
#1	6.436379	.0924291	.1251978	168.5634	.5573247	1.094115
#2	6.460333	.0930432	.1260542	169.4803	.5794941	1.096621
#3	6.442619	.0920802	.1261488	169.1404	.5566160	1.099495

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.009215	207.6334	12.73021	34.29030	1.205855	.0726481
Stddev	.004250	.0477	.04655	.09594	.002703	.0031836
%RSD	.4211468	.0229865	.3656830	.2797801	.2241595	4.382250
#1	1.006375	207.6187	12.68140	34.23836	1.203372	.0707885
#2	1.007169	207.6868	12.77411	34.40101	1.205459	.0763241
#3	1.014102	207.5948	12.73511	34.23154	1.208734	.0708316

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.931901	1.130077	4.123115	7.499431	F 15.21865	.0468086
Stddev	.217777	.004567	.110589	.097472	.05373	.0034991
%RSD	11.27266	.4041516	2.682161	1.299720	.3530826	7.475344
#1	1.900164	1.135249	4.082094	7.525411	15.15971	.0467072
#2	1.731734	1.128384	4.248353	7.581281	15.26490	.0433613
#3	2.163805	1.126597	4.038898	7.391602	15.23134	.0503574

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4912-06 Acquired: 12/02/2024 20:23:12 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHJ4S Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0051734	3.363082	6.093271	.2716710	1.449407	.0675770
Stddev	.0003884	.017565	.038168	.0021837	.003318	.0010398
%RSD	7.508551	.5222980	.6263996	.8038149	.2288881	1.538639
#1	.0050051	3.364366	6.087582	.2716055	1.452623	.0665077
#2	.0048975	3.344910	6.133965	.2738867	1.449601	.0676387
#3	.0056176	3.379970	6.058267	.2695207	1.445996	.0685845

Elem	Sr4077
Units	ppm
Avg	.4242899
Stddev	.0008385
%RSD	.1976147
#1	.4233376
#2	.4249174
#3	.4246147

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1109.512	32986.10	6607.747	970.2183	1594.310
Stddev	.906	652.94	27.552	23.0618	2.410
%RSD	.0816547	1.979432	.4169641	2.376972	.1511315
#1	1109.780	33385.38	6606.307	979.1542	1596.863
#2	1108.502	32232.60	6580.942	944.0258	1593.992
#3	1110.253	33340.32	6635.990	987.4751	1592.076

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4932-03 Acquired: 12/02/2024 20:31:50 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHQ2D Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1261631	-.010689	4.011017	-.007821	.0089134	60.11122	1.666212
Stddev	.0111980	.002108	.006796	.013264	.0037520	.09316	.006716
%RSD	8.875782	19.72583	.1694255	169.5941	42.09415	.1549821	.4030429
#1	.1287876	-.012867	4.018825	-.022634	.0046068	60.06789	1.658493
#2	.1358158	-.010540	4.007784	-.003788	.0106574	60.04762	1.670718
#3	.1138860	-.008658	4.006441	.002958	.0114759	60.21816	1.669423

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0046514	.0268561	252.4806	.1460176	.0911580	.7875729	170.3543
Stddev	.0000511	.0002322	.7642	.0040701	.0000889	.0060473	.1786
%RSD	1.099276	.8645089	.3026684	2.787397	.0975534	.7678371	.1048365
#1	.0045924	.0267343	251.6055	.1413257	.0912175	.7845287	170.5594
#2	.0046827	.0271238	252.8202	.1485980	.0910558	.7945374	170.2698
#3	.0046790	.0267101	253.0161	.1481291	.0912008	.7836527	170.2336

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	11.82212	71.71519	.1883888	-.009439	1.696678	.1792067	2.600048
Stddev	.04430	.16865	.0018354	.001509	.149689	.0019936	.065223
%RSD	.3747300	.2351709	.9742767	15.98701	8.822463	1.112457	2.508523
#1	11.77145	71.80250	.1898424	-.011162	1.584010	.1803031	2.524987
#2	11.85352	71.52079	.1889977	-.008354	1.866530	.1804115	2.632254
#3	11.84140	71.82230	.1863263	-.008800	1.639495	.1769056	2.642904

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.827585	9.839923	.0465595	.0040331	2.133154	5.609123	.1941595
Stddev	.079143	.038153	.0004487	.0007225	.010255	.013500	.0009605
%RSD	1.011083	.3877390	.9636559	17.91496	.4807484	.2406728	.4946880
#1	7.774224	9.878037	.0462280	.0044204	2.139958	5.595792	.1930528
#2	7.918516	9.840002	.0463805	.0031995	2.138146	5.608792	.1947759
#3	7.790015	9.801731	.0470701	.0044794	2.121359	5.622786	.1946498

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4932-03 Acquired: 12/02/2024 20:31:50 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHQ2D Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	1.094415	.0602243	.3726839
Stddev	.003241	.0005519	.0009831
%RSD	.2961167	.9163381	.2637855
#1	1.096269	.0600917	.3715896
#2	1.096304	.0608303	.3729696
#3	1.090673	.0597508	.3734924

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1091.075	32926.43	6544.687	964.8203	1551.642
Stddev	2.024	619.40	14.741	21.9900	1.935
%RSD	.1854712	1.881151	.2252335	2.279181	.1247092
#1	1090.669	33628.93	6532.698	990.0010	1551.272
#2	1089.286	32458.92	6561.145	955.0598	1549.919
#3	1093.271	32691.43	6540.218	949.4000	1553.736

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4932-02 Acquired: 12/02/2024 20:36:27 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHQ2 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1216278	-.008186	3.870182	-.006547	.0067237	62.92738	1.629972
Stddev	.0047066	.003827	.020006	.004224	.0027074	.12585	.003897
%RSD	3.869685	46.74811	.5169168	64.50800	40.26620	.1999907	.2390536
#1	.1162446	-.004724	3.883374	-.001934	.0088206	62.78308	1.626238
#2	.1236728	-.007539	3.847163	-.010223	.0036672	63.01443	1.629667
#3	.1249661	-.012294	3.880008	-.007485	.0076832	62.98462	1.634013

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0045372	.0260195	245.0130	.1468106	.0897723	.7690294	167.3002
Stddev	.0001291	.0002610	.9882	.0054259	.0011328	.0009961	.3203
%RSD	2.845023	1.002953	.4033209	3.695818	1.261869	.1295312	.1914613
#1	.0044574	.0257262	243.9188	.1437368	.0910737	.7680653	166.9311
#2	.0046861	.0262260	245.2799	.1530755	.0890068	.7700548	167.5048
#3	.0044681	.0261065	245.8403	.1436195	.0892366	.7689683	167.4647

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	11.47331	70.61732	.1858126	-.009624	1.754622	.1834592	2.524072
Stddev	.03520	.25606	.0017411	.001265	.341377	.0059830	.055393
%RSD	.3068159	.3625956	.9370343	13.14027	19.45587	3.261194	2.194578
#1	11.44070	70.33251	.1861634	-.010222	1.375605	.1772882	2.480042
#2	11.46861	70.82848	.1839228	-.008171	2.037927	.1838551	2.586266
#3	11.51063	70.69096	.1873516	-.010479	1.850334	.1892344	2.505907

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	8.494644	9.455791	.0505149	.0044135	2.068024	6.910381	.1905327
Stddev	.090007	.065381	.0013169	.0002739	.018955	.100898	.0023001
%RSD	1.059578	.6914378	2.606875	6.206504	.9165737	1.460093	1.207185
#1	8.390716	9.529348	.0512898	.0042880	2.065901	6.803835	.1892589
#2	8.545953	9.404291	.0489945	.0047277	2.050220	6.922835	.1931878
#3	8.547264	9.433735	.0512605	.0042248	2.087951	7.004475	.1891512

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4932-02 Acquired: 12/02/2024 20:36:27 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHQ2 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	1.135544	.0624671	.3683958
Stddev	.007843	.0004090	.0008505
%RSD	.6906975	.6546888	.2308672
#1	1.137997	.0625393	.3677827
#2	1.126767	.0628351	.3680380
#3	1.141867	.0620268	.3693668

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1093.780	33080.28	6568.333	972.7747	1559.718
Stddev	4.135	610.11	40.975	16.3801	7.192
%RSD	.3780183	1.844339	.6238324	1.683857	.4610861
#1	1090.595	33419.69	6613.376	984.0664	1556.210
#2	1098.453	32375.94	6558.354	953.9880	1567.991
#3	1092.293	33445.22	6533.268	980.2697	1554.954

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4932-02LX5 Acquired: 12/02/2024 20:40:49 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHQ2L Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0293250	-.001415	.8161455	.0013821	.0019030	13.50182	.3734150
Stddev	.0081439	.005926	.0008436	.0078841	.0015423	.24675	.0057853
%RSD	27.77110	418.7178	.1033646	570.4447	81.04736	1.827510	1.549304
#1	.0269210	-.006526	.8152531	-.005738	.0036777	13.77874	.3797597
#2	.0384003	-.002801	.8169299	.000029	.0011441	13.42141	.3720532
#3	.0226538	.005081	.8162535	.009855	.0008871	13.30531	.3684320

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0011714	.0048309	57.44326	.0346336	.0173632	.1806190	39.50707
Stddev	.0000822	.0001543	.98201	.0009452	.0001385	.0015438	.80565
%RSD	7.022176	3.194123	1.709522	2.729063	.7976193	.8547445	2.039256
#1	.0012121	.0048666	58.54974	.0341082	.0174129	.1823561	40.43699
#2	.0010767	.0046619	57.10478	.0340678	.0172067	.1800974	39.06496
#3	.0012253	.0049643	56.67527	.0357247	.0174700	.1794035	39.01928

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.749484	16.32080	.0384694	-.000580	.5861741	.0384531	.6051092
Stddev	.046773	.25201	.0002655	.000612	.5204616	.0051283	.0044835
%RSD	1.701161	1.544089	.6902892	105.6246	88.78959	13.33649	.7409383
#1	2.802088	16.61172	.0385879	-.001286	.1944503	.0436510	.6033303
#2	2.733779	16.18092	.0386550	-.000204	.3873278	.0333974	.6017881
#3	2.712584	16.16975	.0381652	-.000249	1.176744	.0383111	.6102091

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.354018	1.918169	.0065843	-.000070	.4310743	1.322047	.0373194
Stddev	.184972	.007301	.0021064	.000107	.0096385	.021169	.0026872
%RSD	13.66099	.3806454	31.99164	152.2946	2.235923	1.601228	7.200562
#1	1.547859	1.913820	.0049826	.000031	.4228367	1.346078	.0347747
#2	1.179419	1.926598	.0089704	-.000060	.4287118	1.313903	.0370541
#3	1.334776	1.914088	.0057999	-.000182	.4416744	1.306159	.0401294

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4932-02LX5 Acquired: 12/02/2024 20:40:49 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHQ2L Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.2509365	-.004965	.0846491
Stddev	.0061926	.001162	.0015207
%RSD	2.467782	23.39435	1.796437
#1	.2579634	-.004010	.0863927
#2	.2485702	-.004627	.0839571
#3	.2462761	-.006258	.0835976

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1036.085	30624.29	5945.826	915.1757	1738.458
Stddev	2.751	95.20	80.977	5.8403	2.416
%RSD	.2655349	.3108546	1.361911	.6381625	.1389913
#1	1037.786	30732.65	5853.306	919.8302	1737.417
#2	1032.911	30586.10	5980.370	917.0748	1736.736
#3	1037.557	30554.11	6003.802	908.6222	1741.220

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4932-04 Acquired: 12/02/2024 20:45:15 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHQ2S Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2080230	.0856094	3.980842	.1460622	.1681551	62.99654	5.347838
Stddev	.0076420	.0028305	.020639	.0074319	.0025685	.16877	.010234
%RSD	3.673623	3.306235	.5184696	5.088152	1.527456	.2678964	.1913613
#1	.1992037	.0835965	3.997094	.1521329	.1683694	62.99376	5.351300
#2	.2121786	.0843860	3.957620	.1482796	.1706097	63.16668	5.355892
#3	.2126868	.0888458	3.987810	.1377740	.1654861	62.82918	5.336322

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0944434	.1278070	249.6416	.5325636	1.113582	1.209251	170.8827
Stddev	.0001466	.0003556	.4077	.0031533	.004754	.002953	.5122
%RSD	.1551996	.2782630	.1632988	.5920900	.4269156	.2442386	.2997475
#1	.0942743	.1276340	249.8565	.5361989	1.116363	1.208182	170.8211
#2	.0945346	.1275709	249.8968	.5309221	1.108093	1.212590	171.4230
#3	.0945212	.1282160	249.1714	.5305697	1.116290	1.206980	170.4042

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	12.58307	71.35042	1.205301	.0786882	1.779351	1.126018	3.319995
Stddev	.02307	.32684	.003773	.0004656	.280444	.006700	.009336
%RSD	.1833373	.4580715	.3130657	.5916413	15.76101	.5950606	.2811997
#1	12.60741	71.20080	1.207589	.0792143	1.631478	1.132831	3.321224
#2	12.56152	71.72529	1.200946	.0785208	1.603791	1.125786	3.328656
#3	12.58028	71.12518	1.207369	.0783295	2.102785	1.119436	3.310106

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.847949	9.681472	.0489784	.0038166	2.118186	5.519297	.1931782
Stddev	.126340	.037280	.0011720	.0003838	.016871	.009632	.0011013
%RSD	1.609846	.3850691	2.392981	10.05690	.7964631	.1745198	.5700728
#1	7.727346	9.710069	.0498871	.0042517	2.128557	5.508252	.1920650
#2	7.979335	9.639308	.0493926	.0035259	2.098719	5.525953	.1932026
#3	7.837166	9.695040	.0476555	.0036723	2.127280	5.523687	.1942671

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4932-04 Acquired: 12/02/2024 20:45:15 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHQ2S Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	1.090194	.0578221	.3702282
Stddev	.004245	.0002555	.0004904
%RSD	.3893481	.4417977	.1324476
#1	1.090205	.0581129	.3705120
#2	1.094433	.0577195	.3705107
#3	1.085944	.0576338	.3696620

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1089.420	32668.83	6548.505	958.4688	1557.488
Stddev	3.827	101.73	11.799	3.1552	5.887
%RSD	.3513040	.3113942	.1801789	.3291931	.3779550
#1	1085.855	32557.48	6534.994	955.5533	1553.401
#2	1093.464	32692.10	6556.784	958.0343	1564.235
#3	1088.939	32756.90	6553.736	961.8187	1554.828

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4914-11 Acquired: 12/02/2024 20:49:31 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHK4 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4573533	-.007677	5.738625	-.002140	.0075113	67.83403
Stddev	.0123675	.002648	.052756	.004734	.0017395	3.15455
%RSD	2.704151	34.48694	.9193187	221.2637	23.15765	4.650392
#1	.4534955	-.006955	5.737012	-.000595	.0055036	71.10619
#2	.4473744	-.010611	5.686694	.001629	.0084665	64.81199
#3	.4711899	-.005466	5.792169	-.007454	.0085639	67.58391

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.011912	.0042688	.0135640	83.30333	.1978314	.0925324
Stddev	.090930	.0003551	.0003477	3.71519	.0098259	.0013512
%RSD	4.519565	8.319472	2.563173	4.459831	4.966796	1.460280
#1	2.108497	.0046765	.0131649	87.15874	.2091722	.0915847
#2	1.927959	.0041028	.0137254	79.74637	.1924553	.0919329
#3	1.999281	.0040270	.0138016	83.00486	.1918665	.0940797

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4977801	159.6028	6.949970	33.98091	.1806473	-.009651
Stddev	.0226034	7.3327	.307029	1.48614	.0033557	.002159
%RSD	4.540844	4.594319	4.417698	4.373445	1.857612	22.36702
#1	.5209529	167.1151	7.274988	35.46323	.1799550	-.007192
#2	.4757927	152.4641	6.664827	32.49098	.1776918	-.010524
#3	.4965947	159.2292	6.910095	33.98851	.1842952	-.011236

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.457790	.2149375	3.281138	7.597108	F 10.61821	.0421306
Stddev	.473401	.0112527	.162515	.552037	.10943	.0057300
%RSD	19.26124	5.235343	4.953012	7.266407	1.030550	13.60061
#1	2.453386	.2269158	3.468654	8.187582	10.63970	.0430791
#2	2.933377	.2045878	3.193666	7.093906	10.49964	.0359856
#3	1.986606	.2133090	3.181094	7.509837	10.71530	.0473273

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4914-11 Acquired: 12/02/2024 20:49:31 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHK4 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0073183	6.126622	7.072501	.1037670	2.833956	.0505036
Stddev	.0004884	.078864	.289447	.0041728	.138774	.0027669
%RSD	6.673066	1.287240	4.092563	4.021366	4.896834	5.478629
#1	.0078792	6.124693	7.391357	.1074612	2.976952	.0533170
#2	.0070880	6.048740	6.826311	.0992409	2.699830	.0477856
#3	.0069876	6.206433	6.999834	.1045989	2.825087	.0504081

Elem	Sr4077
Units	ppm
Avg	.2743442
Stddev	.0126939
%RSD	4.627001
#1	.2878031
#2	.2625869
#3	.2726424

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1080.784	31505.59	6452.308	928.8301	1673.504
Stddev	5.163	1249.58	214.258	34.7815	13.497
%RSD	.4776831	3.966208	3.320635	3.744655	.8065347
#1	1079.528	30062.70	6226.545	888.6890	1673.964
#2	1086.458	32225.40	6652.823	947.7712	1686.765
#3	1076.364	32228.67	6477.556	950.0299	1659.782

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4914-12 Acquired: 12/02/2024 20:53:53 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHK4D Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5000631	-.009302	6.029925	-.012556	.0089770	71.13913
Stddev	.0064510	.001851	.009615	.003042	.0005136	.12865
%RSD	1.290048	19.90222	.1594496	24.23087	5.721487	.1808439
#1	.5042960	-.007537	6.020677	-.009353	.0094669	71.17048
#2	.4926384	-.011229	6.029229	-.012907	.0090215	70.99770
#3	.5032550	-.009140	6.039869	-.015408	.0084426	71.24920

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.222849	.0044274	.0152799	84.76155	.2094757	.0919496
Stddev	.002047	.0002118	.0000313	.03643	.0032188	.0007514
%RSD	.0920880	4.784115	.2047841	.0429833	1.536586	.8172411
#1	2.222454	.0041971	.0153015	84.79317	.2064590	.0917885
#2	2.221028	.0046138	.0152440	84.72171	.2091039	.0912918
#3	2.225065	.0044713	.0152941	84.76976	.2128643	.0927686

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5603935	181.4040	7.555198	35.89186	.1909966	-.012560
Stddev	.0021837	.4170	.005845	.06560	.0008937	.001054
%RSD	.3896756	.2298549	.0773656	.1827736	.4679114	8.392619
#1	.5586332	181.7317	7.555755	35.95564	.1902891	-.013729
#2	.5628372	180.9347	7.560744	35.82458	.1906998	-.012267
#3	.5597103	181.5457	7.549094	35.89534	.1920010	-.011683

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.335086	.2166006	3.444444	8.372225	F 11.42170	.0496912
Stddev	.137970	.0053464	.047060	.157934	.04417	.0013959
%RSD	5.908565	2.468325	1.366246	1.886409	.3867092	2.809071
#1	2.390023	.2144036	3.390697	8.191616	11.40312	.0509611
#2	2.437125	.2226955	3.464384	8.484405	11.38986	.0481966
#3	2.178110	.2127027	3.478251	8.440655	11.47212	.0499159

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4914-12 Acquired: 12/02/2024 20:53:53 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHK4D Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0079557	6.027631	7.632029	.1075069	3.154329	.0570296
Stddev	.0005978	.014750	.033652	.0033577	.012031	.0014227
%RSD	7.514468	.2447104	.4409322	3.123252	.3814209	2.494656
#1	.0086456	6.011359	7.669381	.1091536	3.151612	.0577334
#2	.0076306	6.031408	7.604075	.1036437	3.143888	.0579631
#3	.0075909	6.040125	7.622631	.1097234	3.167486	.0553922

Elem	Sr4077
Units	ppm
Avg	.2799518
Stddev	.0001448
%RSD	.0517123
#1	.2800965
#2	.2799519
#3	.2798070

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1079.887	32136.85	6332.638	949.5952	1656.464
Stddev	4.204	371.85	22.727	14.6157	2.152
%RSD	.3893273	1.157072	.3588882	1.539154	.1299417
#1	1077.359	32519.84	6307.314	966.4518	1655.272
#2	1084.740	32113.46	6339.339	941.8814	1658.948
#3	1077.562	31777.25	6351.262	940.4525	1655.170

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4914-11LX5 Acquired: 12/02/2024 20:58:16 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHK4L Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1033392	.0039721	1.257202	-.004494	.0050895	14.76027	.4684694
Stddev	.0034647	.0014411	.003410	.009414	.0010443	.09088	.0012605
%RSD	3.352770	36.28098	.2712207	209.4579	20.51859	.6156995	.2690568
#1	.1056531	.0037393	1.260802	-.006499	.0062694	14.67214	.4699080
#2	.0993558	.0055155	1.256782	.005760	.0042842	14.85366	.4679411
#3	.1050088	.0026616	1.254021	-.012744	.0047147	14.75502	.4675591

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0010014	.0026291	19.44100	.0443820	.0181018	.1185195	37.13005
Stddev	.0001650	.0001619	.02919	.0008528	.0004572	.0040747	.20573
%RSD	16.47207	6.159047	.1501220	1.921447	2.525560	3.438036	.5540873
#1	.0011896	.0026785	19.45048	.0448543	.0176959	.1155210	36.91521
#2	.0008818	.0027606	19.46427	.0433975	.0180124	.1231589	37.32526
#3	.0009329	.0024482	19.40826	.0448940	.0185971	.1168787	37.14968

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.653980	7.731428	.0376638	-.001732	.5571427	.0477531	.7406683
Stddev	.003789	.078236	.0004039	.000365	.1344421	.0016917	.0019065
%RSD	.2290898	1.011923	1.072410	21.07893	24.13064	3.542689	.2574060
#1	1.658319	7.726404	.0375543	-.001312	.7090726	.0496868	.7428695
#2	1.652302	7.812055	.0373259	-.001912	.5087940	.0465465	.7395981
#3	1.651320	7.655825	.0381111	-.001972	.4535615	.0470259	.7395373

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.350963	2.262157	.0048683	.0009337	1.202803	1.788422	.0224308
Stddev	.067203	.008853	.0010908	.0004555	.008352	.004674	.0013451
%RSD	4.974420	.3913680	22.40654	48.78764	.6943442	.2613489	5.996841
#1	1.420225	2.269502	.0061166	.0013606	1.195648	1.783067	.0216886
#2	1.286029	2.264643	.0040986	.0004541	1.200782	1.791683	.0216204
#3	1.346635	2.252327	.0043895	.0009865	1.211980	1.790515	.0239836

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4914-11LX5 Acquired: 12/02/2024 20:58:16 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHK4L Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.6708451	-.006931	.0608522
Stddev	.0052640	.000198	.0001386
%RSD	.7846761	2.853006	.2277090
#1	.6651992	-.007124	.0609947
#2	.6756180	-.006941	.0608438
#3	.6717181	-.006729	.0607180

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1033.978	30447.12	5841.029	910.2799	1787.344
Stddev	1.442	58.24	18.162	1.5142	1.425
%RSD	.1394639	.1912770	.3109395	.1663410	.0797550
#1	1033.355	30394.19	5854.781	908.8932	1785.750
#2	1035.627	30437.66	5820.441	910.0509	1788.496
#3	1032.953	30509.51	5847.865	911.8955	1787.786

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4914-13 Acquired: 12/02/2024 21:02:41 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHK4S Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5261656	.0853934	5.841115	.1568442	.1752824	70.75284
Stddev	.0097063	.0022092	.026844	.0090833	.0020018	2.29331
%RSD	1.844720	2.587096	.4595735	5.791291	1.142026	3.241293
#1	.5354185	.0860145	5.871882	.1671518	.1729943	73.29428
#2	.5160619	.0829401	5.822464	.1500107	.1761427	70.12639
#3	.5270162	.0872256	5.828999	.1533701	.1767102	68.83786

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.112222	.1019215	.1136422	86.53999	.5986486	1.103322
Stddev	.207179	.0036995	.0002104	2.98363	.0018575	.003040
%RSD	3.389592	3.629717	.1851242	3.447690	.3102898	.2755679
#1	6.345588	.1059934	.1138849	89.89439	.5965092	1.106627
#2	6.041127	.1010041	.1135110	85.54330	.5995851	1.100644
#3	5.949950	.0987671	.1135308	84.18229	.5998515	1.102696

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9841595	166.0707	8.296500	34.41921	1.193696	.0781212
Stddev	.0346953	5.5169	.291164	.98207	.002892	.0007420
%RSD	3.525372	3.322016	3.509485	2.853271	.2422702	.9498414
#1	1.023802	172.1374	8.625833	35.45878	1.196655	.0772646
#2	.969347	164.7203	8.190415	34.29178	1.190877	.0785673
#3	.959329	161.3543	8.073252	33.50708	1.193554	.0785317

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.055583	1.246459	3.953980	7.717695	F 10.75639	.0453050
Stddev	.229768	.034463	.005389	.391540	.04905	.0049210
%RSD	11.17775	2.764903	.1362880	5.073283	.4560357	10.86202
#1	2.229362	1.281929	3.958627	8.159150	10.81247	.0489744
#2	1.795073	1.244349	3.948073	7.581479	10.72149	.0472278
#3	2.142315	1.213099	3.955241	7.412456	10.73520	.0397129

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4914-13 Acquired: 12/02/2024 21:02:41 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHK4S Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0073192	5.781102	7.742651	.1039160	3.010556	.0510694
Stddev	.0006451	.019328	.256074	.0017718	.093076	.0042669
%RSD	8.814374	.3343305	3.307319	1.704988	3.091648	8.355110
#1	.0073010	5.803298	8.027474	.1036585	3.111030	.0545098
#2	.0079732	5.772025	7.669023	.1058024	2.993363	.0524038
#3	.0066833	5.767983	7.531457	.1022871	2.927276	.0462948

Elem	Sr4077
Units	ppm
Avg	.2739621
Stddev	.0093483
%RSD	3.412248
#1	.2844486
#2	.2709360
#3	.2665017

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1075.955	32211.93	6149.507	942.5917	1674.447
Stddev	3.555	77.58	201.753	1.4758	7.675
%RSD	.3304082	.2408426	3.280798	.1565713	.4583655
#1	1072.314	32271.48	5926.319	941.9598	1665.585
#2	1079.417	32124.20	6203.268	944.2783	1678.925
#3	1076.133	32240.11	6318.934	941.5371	1678.832

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4915-08 Acquired: 12/02/2024 21:06:58 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHM8 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0655628	-.009044	1.267168	-.005204	.0081571	73.00762
Stddev	.0040543	.006559	.013982	.005151	.0042892	.15925
%RSD	6.183882	72.52451	1.103395	98.96974	52.58202	.2181338
#1	.0645342	-.013878	1.280379	.000525	.0066953	72.82393
#2	.0700323	-.011675	1.268599	-.006685	.0129860	73.10687
#3	.0621218	-.001578	1.252525	-.009452	.0047899	73.09206

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8453916	.0040904	.0169320	170.1474	.1363813	.0897581
Stddev	.0026886	.0000994	.0002409	.4721	.0007835	.0009560
%RSD	.3180348	2.428961	1.422576	.2774718	.5744965	1.065123
#1	.8422872	.0041330	.0171723	169.6072	.1367388	.0905633
#2	.8469095	.0039768	.0166905	170.4806	.1354828	.0900095
#3	.8469780	.0041613	.0169333	170.3546	.1369222	.0887015

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3685701	182.2296	9.090732	48.13010	.1879383	-.015780
Stddev	.0015849	.3241	.023181	.12072	.0014044	.000101
%RSD	.4300079	.1778678	.2549949	.2508192	.7472759	.6430753
#1	.3671875	181.9570	9.064044	48.05608	.1880890	-.015821
#2	.3682231	182.5880	9.102287	48.06482	.1892613	-.015855
#3	.3702997	182.1438	9.105863	48.26941	.1864646	-.015665

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.915729	.2038594	1.259343	6.305693	F 10.62672	.0416218
Stddev	.270426	.0048129	.001029	.014652	.07324	.0014272
%RSD	14.11608	2.360907	.0817277	.2323538	.6891774	3.428859
#1	1.906500	.1991315	1.260531	6.296353	10.65465	.0405893
#2	1.650036	.2087531	1.258715	6.298148	10.68189	.0432504
#3	2.190652	.2036937	1.258784	6.322580	10.54363	.0410258

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4915-08 Acquired: 12/02/2024 21:06:58 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHM8 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0013750	1.931097	5.569855	.0644304	1.343543	.0726084
Stddev	.0007148	.019247	.003468	.0029258	.003678	.0001872
%RSD	51.98240	.9966995	.0622651	4.540995	.2737792	.2578161
#1	.0006153	1.946526	5.572676	.0677696	1.340276	.0724468
#2	.0014755	1.937236	5.570905	.0632054	1.347527	.0725649
#3	.0020341	1.909529	5.565983	.0623162	1.342826	.0728135

Elem	Sr4077
Units	ppm
Avg	.2834893
Stddev	.0007457
%RSD	.2630481
#1	.2826765
#2	.2836495
#3	.2841419

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1151.821	34395.60	6811.221	1010.733	1602.360
Stddev	3.007	15.92	.466	1.281	11.920
%RSD	.2610955	.0462852	.0068346	.1267575	.7438826
#1	1152.161	34389.72	6810.746	1011.223	1593.935
#2	1148.658	34383.45	6811.240	1011.698	1597.147
#3	1154.644	34413.62	6811.676	1009.280	1615.998

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4915-09 Acquired: 12/02/2024 21:11:21 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHM8D Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0649183	-.010302	1.180754	-.013037	.0127020	60.68120	.7552267
Stddev	.0089126	.006127	.001653	.000981	.0032536	.22187	.0015427
%RSD	13.72894	59.47886	.1400200	7.522104	25.61477	.3656374	.2042707
#1	.0680928	-.013725	1.182660	-.013593	.0093297	60.68374	.7553336
#2	.0548531	-.013952	1.179903	-.013613	.0158222	60.90179	.7567131
#3	.0718091	-.003228	1.179701	-.011905	.0129541	60.45806	.7536333

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0036896	.0141887	148.4648	.1203121	.0791861	.3428997	180.4368
Stddev	.0001348	.0001747	.3030	.0015596	.0007022	.0021349	.6466
%RSD	3.653589	1.231102	.2040755	1.296253	.8867639	.6225875	.3583401
#1	.0035501	.0143342	148.5421	.1186209	.0793741	.3422719	180.6267
#2	.0038191	.0139950	148.7216	.1216935	.0797751	.3411491	180.9672
#3	.0036994	.0142369	148.1306	.1206219	.0784090	.3452780	179.7166

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	8.089189	39.01895	.1634676	-.014863	1.736920	.1736538	1.100213
Stddev	.012243	.06933	.0013742	.000420	.188523	.0029043	.004360
%RSD	.1513491	.1776828	.8406621	2.828089	10.85390	1.672479	.3962638
#1	8.100863	39.07645	.1618810	-.014670	1.935721	.1750137	1.104967
#2	8.090256	39.03843	.1642840	-.015345	1.560711	.1703190	1.099271
#3	8.076448	38.94196	.1642378	-.014574	1.714326	.1756286	1.096401

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.926371	8.110685	.0341672	.0014054	1.650322	5.062697	.0602216
Stddev	.046007	.023053	.0056243	.0011629	.009477	.034516	.0025058
%RSD	.9338906	.2842280	16.46111	82.74226	.5742695	.6817652	4.160926
#1	4.955238	8.133178	.0403137	.0027121	1.639398	5.037465	.0596083
#2	4.873316	8.111766	.0292778	.0010197	1.656349	5.102031	.0580794
#3	4.950560	8.087110	.0329102	.0004844	1.655219	5.048596	.0629771

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4915-09 Acquired: 12/02/2024 21:11:21 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHM8D Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	1.165400	.0547103	.2293365
Stddev	.004801	.0010600	.0003684
%RSD	.4119872	1.937553	.1606491
#1	1.167671	.0548642	.2294762
#2	1.168644	.0556850	.2296147
#3	1.159885	.0535817	.2289187

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1122.000	33499.47	6604.534	986.1149	1628.606
Stddev	.620	125.61	17.579	3.7414	1.814
%RSD	.0552463	.3749701	.2661593	.3794094	.1113753
#1	1122.508	33450.53	6623.754	981.8150	1626.573
#2	1122.182	33642.19	6589.271	988.6273	1629.188
#3	1121.309	33405.71	6600.577	987.9024	1630.058

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4915-08LX5 Acquired: 12/02/2024 21:15:44 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHM8L Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0153641	.0018071	.2684958	.0004011	.0008252	17.01687	.2013057
Stddev	.0079154	.0056534	.0054423	.0026718	.0023004	.06466	.0012877
%RSD	51.51890	312.8390	2.026950	666.1227	278.7554	.3799772	.6396652
#1	.0105013	.0082215	.2639104	.0026827	.0034694	17.09117	.2019164
#2	.0244977	-.002450	.2745099	.0010587	-.000716	16.98612	.2021745
#3	.0110934	-.000350	.2670670	-.002538	-.000278	16.97333	.1998263

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0011190	.0030630	41.05027	.0341109	.0173602	.0888864	44.63281
Stddev	.0001282	.0001534	.04351	.0005036	.0003938	.0031701	.04092
%RSD	11.45474	5.007779	.1059931	1.476365	2.268351	3.566441	.0916911
#1	.0010920	.0032137	41.09857	.0336082	.0177830	.0925336	44.66365
#2	.0010065	.0030684	41.03813	.0341092	.0170039	.0873318	44.58638
#3	.0012586	.0029070	41.01412	.0346154	.0172937	.0867937	44.64839

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.225702	11.58713	.0392415	-.002301	.6579995	.0458264	.3053242
Stddev	.005429	.04254	.0004362	.000323	.1587495	.0055673	.0001310
%RSD	.2439352	.3670928	1.111486	14.03704	24.12608	12.14869	.0429086
#1	2.231929	11.61085	.0393736	-.001975	.5975179	.0394766	.3052405
#2	2.221954	11.53802	.0395964	-.002309	.8380998	.0498705	.3054751
#3	2.223225	11.61250	.0387546	-.002621	.5383808	.0481319	.3052569

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.026091	2.177304	.0022833	-.000757	.3926324	1.244658	.0146602
Stddev	.080052	.009517	.0017444	.000796	.0027000	.002428	.0013396
%RSD	7.801661	.4370992	76.39834	105.2463	.6876796	.1950732	9.137901
#1	1.045555	2.179534	.0003523	-.000177	.3945980	1.247395	.0131669
#2	1.094617	2.185508	.0037452	-.000428	.3895538	1.243818	.0157562
#3	.938102	2.166870	.0027525	-.001665	.3937455	1.242762	.0150577

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4915-08LX5 Acquired: 12/02/2024 21:15:44 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHM8L Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.3152392	-.001548	.0674298
Stddev	.0010049	.001033	.0000682
%RSD	.3187643	66.72418	.1011718
#1	.3163904	-.000434	.0675030
#2	.3147889	-.001736	.0673679
#3	.3145382	-.002474	.0674184

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1044.270	30895.24	5934.004	926.8651	1746.544
Stddev	8.435	63.45	23.112	2.4213	16.530
%RSD	.8077026	.2053659	.3894832	.2612331	.9464171
#1	1049.421	30832.49	5919.206	928.8104	1752.139
#2	1034.536	30893.87	5922.170	924.1534	1727.943
#3	1048.854	30959.37	5960.636	927.6316	1759.549

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4915-10 Acquired: 12/02/2024 21:20:11 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHM8S Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1482139	.0868485	1.290729	.1398567	.1605708	73.66762
Stddev	.0053898	.0045122	.002986	.0036432	.0034575	.69873
%RSD	3.636480	5.195465	.2313686	2.604947	2.153263	.9484917
#1	.1544248	.0885359	1.293990	.1438777	.1588168	73.92453
#2	.1447655	.0902739	1.288128	.1367755	.1645538	74.20153
#3	.1454512	.0817358	1.290069	.1389169	.1583419	72.87681

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.368333	.0910638	.1187590	167.3161	.5083533	1.111111
Stddev	.051330	.0011571	.0003089	1.9789	.0016531	.001908
%RSD	1.175046	1.270674	.2601036	1.182757	.3251789	.1716918
#1	4.394360	.0917033	.1186243	168.5708	.5100137	1.109541
#2	4.401435	.0917600	.1185403	168.3428	.5083385	1.110557
#3	4.309203	.0897280	.1191124	165.0349	.5067077	1.113234

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7709355	180.6718	9.832944	47.09007	1.209515	.0680626
Stddev	.0105436	1.5014	.133087	.34748	.005138	.0002754
%RSD	1.367636	.8310269	1.353485	.7379059	.4248254	.4046068
#1	.7772115	181.5890	9.913240	47.31609	1.206133	.0677793
#2	.7768321	181.4873	9.906271	47.26417	1.206984	.0680792
#3	.7587628	178.9391	9.679320	46.68996	1.215428	.0683293

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.897726	1.110329	1.977373	5.875215	F 10.56288	.0347442
Stddev	.151842	.008296	.004643	.094299	.01858	.0030623
%RSD	8.001237	.7471833	.2348021	1.605026	.1758710	8.813874
#1	2.068547	1.116837	1.974335	5.836813	10.55287	.0312179
#2	1.846539	1.113164	1.975066	5.982656	10.58432	.0367337
#3	1.778094	1.100987	1.982717	5.806176	10.55145	.0362812

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4915-10 Acquired: 12/02/2024 21:20:11 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHM8S Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0019193	1.936165	4.864856	.0643179	1.285266	.0689361
Stddev	.0005390	.018961	.048217	.0023674	.010790	.0018145
%RSD	28.08494	.9793170	.9911313	3.680821	.8394807	2.632164
#1	.0013532	1.914276	4.907456	.0618688	1.289733	.0709681
#2	.0019783	1.946677	4.874601	.0644906	1.293105	.0683625
#3	.0024263	1.947541	4.812511	.0665942	1.272960	.0674777

Elem	Sr4077
Units	ppm
Avg	.2769215
Stddev	.0034421
%RSD	1.242979
#1	.2787830
#2	.2790320
#3	.2729496

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1147.577	34378.02	6853.837	1007.406	1601.850
Stddev	.727	34.10	54.404	3.541	2.829
%RSD	.0633111	.0991989	.7937783	.3515015	.1766088
#1	1148.171	34361.49	6808.664	1011.216	1604.328
#2	1147.793	34417.24	6838.616	1006.786	1602.454
#3	1146.767	34355.34	6914.231	1004.216	1598.767

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4915-06 Acquired: 12/02/2024 21:24:29 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHM6 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0033639	.0037467	.0004085	.0028878	.0012485	.0545853	.0043474
Stddev	.0037416	.0002958	.0013150	.0022328	.0011073	.0053622	.0000179
%RSD	111.2286	7.895041	321.9316	77.31645	88.69358	9.823556	.4105836
#1	.0058738	.0037762	-.000113	.0053854	.0007891	.0604716	.0043282
#2	.0051545	.0034372	-.000566	.0021930	.0025116	.0533057	.0043635
#3	-.000937	.0040266	.001904	.0010851	.0004448	.0499787	.0043507

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001077	-.000083	.6192931	.0089770	.0013110	-.000403	.6540173
Stddev	.0001098	.000170	.0052683	.0002327	.0001756	.004095	.0133702
%RSD	101.9613	204.3062	.8507004	2.592672	13.39175	1016.815	2.044313
#1	.0000384	.000009	.6247833	.0087390	.0012887	-.004639	.6447914
#2	.0000504	.000021	.6142790	.0092041	.0014967	-.000104	.6693505
#3	.0002342	-.000279	.6188171	.0089879	.0011477	.003535	.6479100

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0474051	.1793038	.0282150	-.001702	.3124365	-.003897	.0036128
Stddev	.0000821	.0199996	.0008805	.000424	.0343480	.006369	.0004073
%RSD	.1732158	11.15400	3.120816	24.90112	10.99360	163.4177	11.27240
#1	.0473117	.2005959	.0282769	-.002156	.2902116	.001843	.0040574
#2	.0474377	.1764015	.0273051	-.001318	.2951004	-.002786	.0035233
#3	.0474659	.1609139	.0290629	-.001630	.3519977	-.010748	.0032577

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-3.54286	.0228003	-.008818	.0000501	.0104158	.0269082	-.001497
Stddev	.11237	.0020681	.000880	.0007015	.0020522	.0004375	.001284
%RSD	3.171693	9.070725	9.976201	1400.180	19.70331	1.626023	85.78009
#1	-3.62913	.0250381	-.009833	.0004560	.0108624	.0274130	-.002097
#2	-3.41579	.0209593	-.008276	.0004542	.0122080	.0266386	-.002370
#3	-3.58365	.0224034	-.008345	-.000760	.0081770	.0266729	-.000023

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4915-06 Acquired: 12/02/2024 21:24:29 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHM6 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0019913	-.047548	.0013724
Stddev	.0014658	.001185	.0000562
%RSD	73.60786	2.492713	4.097812
#1	.0036741	-.048778	.0013104
#2	.0009931	-.046413	.0013865
#3	.0013068	-.047453	.0014202

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1086.962	31703.11	5908.995	957.9546	2004.374
Stddev	4.741	60.16	14.908	3.8737	8.094
%RSD	.4361737	.1897619	.2522857	.4043714	.4038061
#1	1086.475	31769.95	5910.843	959.6123	2007.209
#2	1091.928	31653.29	5922.893	953.5279	2010.670
#3	1082.483	31686.09	5893.250	960.7236	1995.245

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: CCV074 Acquired: 12/02/2024 21:29:02 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV074 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.415642	5.081214	24.88746	4.967582	4.759553	401.2965
Stddev	.014265	.022750	.02644	.018206	.019903	1.9522
%RSD	.2634030	.4477326	.1062182	.3664986	.4181713	.4864808
#1	5.431789	5.107217	24.89608	4.953957	4.751105	400.2989
#2	5.410388	5.071445	24.85780	4.988259	4.782287	403.5459
#3	5.404749	5.064979	24.90852	4.960530	4.745268	400.0445

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.994878	.5062368	2.632331	402.9738	15.38672	2.508869
Stddev	.115156	.0030025	.001067	.0846	.03774	.002814
%RSD	1.152147	.5931018	.0405154	.0210044	.2453075	.1121593
#1	10.06670	.5071959	2.631101	402.8888	15.39463	2.512050
#2	10.05588	.5086425	2.632985	402.9747	15.41987	2.507853
#3	9.86205	.5028719	2.632909	403.0581	15.34564	2.506705

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	14.83331	402.6952	14.72753	418.3083	2.483803	1.265430
Stddev	.01641	.2298	.02128	.3307	.003596	.005628
%RSD	.1106302	.0570714	.1444710	.0790682	.1447662	.4447252
#1	14.85097	402.7254	14.75099	418.3529	2.487723	1.269582
#2	14.81854	402.4518	14.70947	417.9575	2.483030	1.267683
#3	14.83041	402.9085	14.72215	418.6145	2.480658	1.259025

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	399.6867	2.477023	14.39364	151.9430	4.975340	F 4.259806
Stddev	.2703	.008165	.07811	.1292	.006852	.026975
%RSD	.0676168	.3296273	.5426704	.0850002	.1377180	.6332465
#1	399.7313	2.474938	14.47612	152.0659	4.968007	4.266892
#2	399.3969	2.470103	14.38402	151.8084	4.976434	4.282530
#3	399.9319	2.486029	14.32079	151.9548	4.981579	4.229995

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: CCV074 Acquired: 12/02/2024 21:29:02 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV074 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.817554	5.028284	F 3.416110	5.023155	4.986657	4.849456
Stddev	.006603	.006051	.018157	.003730	.014870	.004521
%RSD	.1370525	.1203453	.5315204	.0742499	.2981879	.0932178
#1	4.824708	5.025788	3.427436	5.027460	5.002797	4.852174
#2	4.816258	5.035184	3.425728	5.021109	4.973515	4.844237
#3	4.811695	5.023880	3.395167	5.020896	4.983658	4.851956

Elem	Sr4077
Units	ppm
Avg	5.017248
Stddev	.010613
%RSD	.2115278
#1	5.012939
#2	5.029338
#3	5.009467

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	806.9507	25626.31	5388.857	664.8656	1323.403
Stddev	2.2962	33.96	15.442	3.6098	3.359
%RSD	.2845469	.1325194	.2865571	.5429334	.2537880
#1	804.3503	25588.15	5380.503	660.7143	1320.011
#2	807.8027	25637.55	5379.391	667.2658	1326.727
#3	808.6991	25653.22	5406.676	666.6167	1323.471

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: CCB074 Acquired: 12/02/2024 21:33:34 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB074 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0045012	-.001344	-.001288	.0037792	.0012014	.0012870	.0001722
Stddev	.0026781	.004110	.000806	.0044265	.0016614	.0051237	.0006539
%RSD	59.49732	305.6974	62.61492	117.1263	138.2903	398.1204	379.6681
#1	.0073938	.000228	-.000370	.0022569	-.000239	.0068205	-.000580
#2	.0021079	.001747	-.001884	.0003148	.003019	.0003333	.000495
#3	.0040018	-.006008	-.001609	.0087660	.000825	-.003293	.000602

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000394	-.000176	.0165146	.0005381	-.000266	-.002537	.0022275
Stddev	.0001424	.000036	.0114290	.0006895	.000312	.003246	.0085618
%RSD	361.4057	20.29682	69.20527	128.1333	117.1932	127.9172	384.3723
#1	-.000125	-.000147	.0296212	.0004702	-.000403	.000238	.0098874
#2	.000132	-.000215	.0086251	-.000115	-.000486	-.001744	-.007015
#3	.000111	-.000165	.0112976	.001259	.000091	-.006106	.003810

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0007561	.0157682	.0007699	.0009314	.0243273	-.003383	-.000131
Stddev	.0004962	.0251125	.0001886	.0004260	.4299757	.001581	.000541
%RSD	65.62600	159.2601	24.50117	45.74347	1767.459	46.73423	413.3232
#1	.0013024	.0408770	.0009556	.0013585	.1559422	-.004978	-.000112
#2	.0003335	.0157755	.0007758	.0009293	.3731128	-.001816	-.000681
#3	.0006324	-.009348	.0005784	.0005064	-.456073	-.003357	.000401

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.255026	.0038920	-.001051	.0002403	-.000274	.0004257	-.001698
Stddev	.079283	.0053128	.001313	.0004642	.000598	.0001945	.001810
%RSD	31.08800	136.5042	124.9009	193.1965	217.9593	45.69176	106.5907
#1	-.326364	.0096971	-.000078	.0007740	.000067	.0006201	-.003269
#2	-.169669	-.000728	-.000531	.0000154	-.000965	.0002311	.000281
#3	-.269045	.002707	-.002544	-.000069	.000075	.0004258	-.002104

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: CCB074 Acquired: 12/02/2024 21:33:34 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB074 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0006258	-.011828	.0001555
Stddev	.0010416	.000143	.0000637
%RSD	166.4552	1.205359	40.93058
#1	.0015540	-.011849	.0000832
#2	.0008242	-.011959	.0001804
#3	-.000501	-.011676	.0002030

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1009.829	29638.03	5633.246	888.7102	1860.498
Stddev	.481	115.58	62.814	3.5099	1.944
%RSD	.0475836	.3899784	1.115063	.3949450	.1044726
#1	1009.702	29513.99	5575.318	888.9498	1859.684
#2	1009.425	29657.38	5700.011	885.0867	1859.094
#3	1010.360	29742.71	5624.411	892.0942	1862.717

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4933-14 Acquired: 12/02/2024 21:38:06 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHS4 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0031364	-.002356	.0005209	.0040148	-.002319	.0111902	.0008574
Stddev	.0039239	.000941	.0018051	.0028104	.002867	.0017132	.0001991
%RSD	125.1078	39.95970	346.5284	70.00151	123.6264	15.30975	23.22372
#1	.0007183	-.001782	-.000562	.0029542	-.003470	.0120429	.0007830
#2	.0010271	-.003442	.002605	.0018890	.000945	.0092180	.0007062
#3	.0076638	-.001843	-.000480	.0072012	-.004431	.0123098	.0010830

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000786	-.000045	.1111090	.0003907	.0004011	.0010013	.0936803
Stddev	.0000498	.000077	.0016461	.0003787	.0001231	.0012752	.0016894
%RSD	63.31763	171.8281	1.481487	96.93672	30.69343	127.3589	1.803331
#1	.0001246	-.000128	.1126852	.0002884	.0003942	.0017835	.0919746
#2	.0000854	-.000030	.1112408	.0008101	.0002815	.0016906	.0937135
#3	.0000258	.000024	.1094010	.0000736	.0005274	-.000470	.0953528

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0040512	-.015568	.0012307	-.001618	.7024463	-.006413	-.000189
Stddev	.0002906	.022407	.0002456	.000141	.0288292	.005298	.000400
%RSD	7.174350	143.9249	19.95597	8.731132	4.104116	82.61603	211.4273
#1	.0038158	-.029639	.0012614	-.001766	.7112716	-.003980	-.000645
#2	.0039617	-.027337	.0014595	-.001604	.6702360	-.012491	-.000025
#3	.0043760	.010271	.0009712	-.001485	.7258313	-.002769	.000103

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-3.68986	.0010571	-.005430	.0001807	.0138865	.0157751	-.001571
Stddev	.15634	.0024307	.001153	.0001850	.0060961	.0006425	.001579
%RSD	4.236928	229.9460	21.23747	102.4024	43.89912	4.072951	100.4923
#1	-3.76990	.0034801	-.004115	.0000763	.0153236	.0156948	-.002725
#2	-3.78997	-.001381	-.006271	.0000714	.0191357	.0151765	-.002216
#3	-3.50971	.001072	-.005903	.0003943	.0072003	.0164540	.000228

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4933-14 Acquired: 12/02/2024 21:38:06 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHS4 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0025149	-.046955	.0002053
Stddev	.0004059	.000353	.0001068
%RSD	16.14032	.7518299	52.03918
#1	.0025008	-.047022	.0003207
#2	.0029276	-.047270	.0001099
#3	.0021162	-.046573	.0001852

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1086.175	31665.99	5881.848	958.5939	2012.191
Stddev	1.882	64.25	19.254	4.5213	5.170
%RSD	.1732468	.2029039	.3273516	.4716609	.2569140
#1	1087.075	31700.43	5859.725	963.7757	2016.730
#2	1087.438	31705.67	5894.825	955.4517	2013.281
#3	1084.013	31591.86	5890.993	956.5543	2006.564

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4939-01 Acquired: 12/02/2024 21:42:37 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHS5 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0926701	-.008419	2.704568	-.005426	.0048725	52.81824	1.042189
Stddev	.0094394	.005309	.010230	.001549	.0026377	.55407	.011936
%RSD	10.18601	63.05376	.3782311	28.54410	54.13338	1.049013	1.145245
#1	.1012232	-.002592	2.708882	-.005577	.0045356	53.18169	1.051548
#2	.0942446	-.012981	2.711934	-.006895	.0076625	53.09251	1.046272
#3	.0825425	-.009685	2.692888	-.003808	.0024195	52.18053	1.028748

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0039117	.0125228	71.91100	.1257018	.0734178	.3180921	137.3040
Stddev	.0000469	.0000816	.67487	.0007517	.0005560	.0046924	1.3466
%RSD	1.199323	.6513954	.9384759	.5979686	.7573089	1.475180	.9807451
#1	.0038685	.0125391	72.37524	.1248371	.0740549	.3226991	138.2500
#2	.0039049	.0125950	72.22093	.1260699	.0731681	.3182585	137.8997
#3	.0039616	.0124343	71.13684	.1261985	.0730304	.3133187	135.7622

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	10.72979	30.24385	.1844035	-.012968	1.452445	.1707792	2.025068
Stddev	.10861	.25001	.0007319	.000709	.245606	.0034674	.014122
%RSD	1.012185	.8266624	.3969224	5.467805	16.90986	2.030344	.6973366
#1	10.79135	30.36953	.1851493	-.012488	1.519089	.1740451	2.020458
#2	10.79363	30.40609	.1843748	-.013782	1.657851	.1671404	2.013828
#3	10.60439	29.95593	.1836863	-.012634	1.180394	.1711523	2.040919

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.076071	7.790923	.0536398	.0052074	4.350559	4.081568	.0526069
Stddev	.128029	.023654	.0006074	.0002614	.023187	.033070	.0011161
%RSD	3.141001	.3036126	1.132451	5.019892	.5329613	.8102341	2.121559
#1	4.087254	7.806665	.0542695	.0054026	4.360739	4.093719	.0517107
#2	4.198142	7.802382	.0535924	.0049105	4.366914	4.106844	.0522529
#3	3.942816	7.763721	.0530574	.0053093	4.324024	4.044141	.0538570

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4939-01 Acquired: 12/02/2024 21:42:37 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHS5 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	1.076953	.0432636	.1234565
Stddev	.010173	.0008874	.0014328
%RSD	.9445680	2.051060	1.160595
#1	1.084402	.0432474	.1244749
#2	1.081096	.0441590	.1240766
#3	1.065363	.0423845	.1218181

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1107.976	33335.27	6551.098	972.7582	1676.616
Stddev	4.731	192.18	51.094	6.4199	9.583
%RSD	.4269653	.5765202	.7799256	.6599716	.5715766
#1	1102.523	33155.29	6504.707	973.2446	1667.372
#2	1110.987	33537.69	6542.727	978.9211	1675.969
#3	1110.417	33312.84	6605.861	966.1089	1686.506

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4939-02 Acquired: 12/02/2024 21:47:00 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHS6 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1292098	-.004113	3.624741	-.012106	.0062383	62.48425
Stddev	.0118787	.004328	.027414	.005981	.0011361	.17629
%RSD	9.193326	105.2160	.7563018	49.40367	18.21111	.2821418
#1	.1332820	-.008701	3.651919	-.005466	.0055351	62.68198
#2	.1385168	-.003535	3.597097	-.013783	.0056309	62.42732
#3	.1158306	-.000104	3.625209	-.017070	.0075490	62.34346

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.326947	.0052934	.0174592	75.89196	.1489396	.0995993
Stddev	.005234	.0001351	.0000914	.24616	.0006133	.0009617
%RSD	.3944698	2.552248	.5232690	.3243552	.4117919	.9655920
#1	1.329819	.0054459	.0174586	76.06200	.1494279	.0999946
#2	1.320905	.0052458	.0175509	75.60968	.1482512	.0985029
#3	1.330117	.0051886	.0173681	76.00419	.1491395	.1003004

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3950196	171.8417	13.95160	33.10956	.2350104	-.015924
Stddev	.0010297	.5372	.04157	.05468	.0014017	.000260
%RSD	.2606640	.3126199	.2979841	.1651526	.5964349	1.632949
#1	.3956357	172.4515	13.96157	33.11936	.2350062	-.015628
#2	.3938309	171.6357	13.90595	33.15868	.2336108	-.016114
#3	.3955922	171.4380	13.98728	33.05064	.2364142	-.016032

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.708501	.2014701	2.533924	3.082417	F 10.30914	.0503135
Stddev	.373027	.0034862	.013018	.037575	.04227	.0030023
%RSD	21.83356	1.730403	.5137565	1.219002	.4100376	5.967082
#1	1.849067	.2014165	2.545372	3.117223	10.34534	.0534780
#2	1.990822	.1980110	2.519763	3.042581	10.26269	.0499571
#3	1.285614	.2049829	2.536638	3.087448	10.31941	.0475054

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4939-02 Acquired: 12/02/2024 21:47:00 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHS6 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0058198	5.115329	7.700398	.0736477	1.235466	.0505060
Stddev	.0004926	.055470	.015736	.0039933	.007717	.0009873
%RSD	8.463478	1.084383	.2043543	5.422141	.6246511	1.954827
#1	.0053972	5.157154	7.705804	.0781009	1.242031	.0511674
#2	.0057015	5.052406	7.682671	.0724571	1.237403	.0509794
#3	.0063608	5.136427	7.712719	.0703851	1.226965	.0493711

Elem	Sr4077
Units	ppm
Avg	.1467093
Stddev	.0001830
%RSD	.1247544
#1	.1467486
#2	.1465099
#3	.1468695

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1186.580	35209.04	6839.623	1048.137	1681.104
Stddev	9.677	117.57	10.747	4.243	9.825
%RSD	.8154972	.3339222	.1571289	.4047963	.5844424
#1	1178.696	35086.59	6833.791	1045.731	1673.398
#2	1197.379	35321.04	6852.026	1053.036	1692.168
#3	1183.666	35219.48	6833.053	1045.645	1677.748

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4939-03 Acquired: 12/02/2024 21:51:23 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHT6 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1033663	-.009490	4.986828	.0007687	.0908857	67.35604
Stddev	.0096919	.007807	.019998	.0127711	.0019023	.47335
%RSD	9.376258	82.26503	.4010247	1661.362	2.093061	.7027588
#1	.1045337	-.014507	4.975915	-.011834	.0887557	66.92767
#2	.0931435	-.000495	4.974660	.013702	.0914862	67.27624
#3	.1124216	-.013469	5.009908	.000438	.0924153	67.86422

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.332913	.0048591	.0161953	312.2350	.1879197	.0728157
Stddev	.013715	.0001470	.0004801	2.0566	.0105113	.0005182
%RSD	.5879050	3.024984	2.964216	.6586783	5.593478	.7117206
#1	2.322120	.0046894	.0157302	310.4789	.1769243	.0726884
#2	2.328273	.0049412	.0166890	311.7286	.1978684	.0733857
#3	2.348347	.0049467	.0161668	314.4975	.1889666	.0723730

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6476402	142.6887	5.269317	58.33098	.2074511	-.006714
Stddev	.0019074	1.0124	.029364	.34890	.0008536	.002863
%RSD	.2945100	.7094935	.5572655	.5981334	.4114606	42.64325
#1	.6455369	141.6480	5.244258	58.04422	.2065304	-.009892
#2	.6492577	142.7481	5.262065	58.22929	.2082161	-.004334
#3	.6481261	143.6701	5.301627	58.71942	.2076068	-.005917

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.530818	.1876382	2.845986	12.55957	F 17.99163	.0730417
Stddev	.184716	.0053092	.158683	.13722	.06902	.0042951
%RSD	7.298652	2.829486	5.575688	1.092548	.3836207	5.880301
#1	2.452481	.1820895	2.668696	12.49137	17.92123	.0744140
#2	2.398181	.1926701	2.974713	12.46981	17.99448	.0682282
#3	2.741793	.1881550	2.894549	12.71752	18.05918	.0764830

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4939-03 Acquired: 12/02/2024 21:51:23 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHT6 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0066911	5.613995	5.549457	.3969997	1.297412	.0787433
Stddev	.0008692	.021747	.105323	.0019407	.009226	.0015110
%RSD	12.98984	.3873773	1.897901	.4888529	.7110757	1.918830
#1	.0058791	5.594466	5.428239	.3952081	1.289245	.0782722
#2	.0076080	5.610088	5.618581	.3990613	1.295571	.0775239
#3	.0065863	5.637431	5.601552	.3967297	1.307419	.0804336

Elem	Sr4077
Units	ppm
Avg	.6193329
Stddev	.0039119
%RSD	.6316270
#1	.6165732
#2	.6176158
#3	.6238096

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1084.485	33066.18	6465.653	976.9489	1550.935
Stddev	2.013	1539.01	47.078	42.7901	5.466
%RSD	.1856192	4.654326	.7281305	4.379972	.3524029
#1	1086.446	34743.29	6516.275	1024.955	1556.814
#2	1084.584	31718.69	6457.499	942.819	1549.984
#3	1082.424	32736.55	6423.183	963.072	1546.008

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4939-04 Acquired: 12/02/2024 21:55:46 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHT7 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1081091	-.006725	5.413194	-.009325	.0133468	82.00705
Stddev	.0083127	.006869	.016693	.006899	.0017478	3.47043
%RSD	7.689161	102.1328	.3083690	73.98292	13.09504	4.231863
#1	.1008359	-.012237	5.413184	-.010505	.0113600	78.09551
#2	.1171703	.000970	5.396507	-.001912	.0146470	84.71697
#3	.1063211	-.008908	5.429892	-.015558	.0140334	83.20867

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.645119	.0059971	.0177039	343.9995	.1856483	.0793060
Stddev	.103172	.0002586	.0004745	14.2389	.0003048	.0014026
%RSD	3.900456	4.311332	2.680356	4.139209	.1641864	1.768614
#1	2.529551	.0057523	.0182278	327.8822	.1859510	.0797981
#2	2.727950	.0059715	.0173029	354.8724	.1853414	.0777236
#3	2.677857	.0062675	.0175810	349.2438	.1856525	.0803962

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7696900	155.7726	5.506097	59.89946	.2240985	-.006794
Stddev	.0287753	6.8278	.222093	2.44383	.0007828	.000660
%RSD	3.738560	4.383171	4.033586	4.079888	.3493139	9.712240
#1	.7375364	148.1239	5.254797	57.13432	.2249647	-.006049
#2	.7930213	161.2529	5.676037	61.76969	.2234417	-.007303
#3	.7785124	157.9408	5.587457	60.79436	.2238892	-.007032

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.676738	.2193096	3.133997	11.06518	F 17.48526	.0711827
Stddev	.067090	.0081096	.011180	.49453	.05350	.0041201
%RSD	2.506411	3.697788	.3567403	4.469265	.3059747	5.788091
#1	2.645058	.2099462	3.145417	10.52445	17.44271	.0673198
#2	2.753802	.2238855	3.123073	11.49450	17.46775	.0755191
#3	2.631354	.2240971	3.133501	11.17661	17.54532	.0707090

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4939-04 Acquired: 12/02/2024 21:55:46 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHT7 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0070041	4.616862	6.158893	.1823645	1.297564	.1005263
Stddev	.0007682	.009617	.233154	.0006583	.055549	.0049971
%RSD	10.96825	.2083061	3.785653	.3609642	4.281017	4.970985
#1	.0067504	4.623828	5.892237	.1827179	1.235191	.0947562
#2	.0078671	4.605889	6.324347	.1816050	1.341707	.1034379
#3	.0063948	4.620869	6.260094	.1827706	1.315795	.1033848

Elem	Sr4077
Units	ppm
Avg	.7381165
Stddev	.0285231
%RSD	3.864310
#1	.7062604
#2	.7612874
#3	.7468018

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1099.934	32934.35	6664.459	974.6260	1538.661
Stddev	2.076	17.23	252.749	5.2059	4.899
%RSD	.1887144	.0523160	3.792486	.5341415	.3184128
#1	1098.653	32942.15	6953.379	970.4736	1534.276
#2	1102.329	32914.60	6484.277	980.4664	1543.949
#3	1098.820	32946.31	6555.721	972.9379	1537.758

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4939-05 Acquired: 12/02/2024 22:00:08 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHT8 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1567190	-.014806	7.684534	-.004470	.0121975	76.78510
Stddev	.0065256	.004067	.058153	.004640	.0044477	.84851
%RSD	4.163871	27.46685	.7567567	103.7824	36.46395	1.105045
#1	.1628193	-.014978	7.744378	-.003084	.0082732	77.26073
#2	.1574994	-.010656	7.628234	-.000682	.0112905	77.28911
#3	.1498384	-.018784	7.680991	-.009645	.0170287	75.80546

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.505871	.0064860	.0215870	351.6400	.1981036	.0932729
Stddev	.035071	.0000875	.0002452	2.8655	.0019653	.0001932
%RSD	1.000364	1.348426	1.135779	.8148908	.9920352	.2071486
#1	3.525486	.0064140	.0218699	352.9452	.1999815	.0932877
#2	3.526747	.0065833	.0214351	353.6205	.1982680	.0930727
#3	3.465381	.0064606	.0214561	348.3543	.1960613	.0934583

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9310016	210.1833	6.240855	53.39990	.2300636	-.009442
Stddev	.0114539	2.0630	.049267	.31545	.0015470	.000152
%RSD	1.230277	.9815376	.7894252	.5907226	.6724066	1.607761
#1	.9408053	211.0332	6.270305	53.54840	.2317643	-.009267
#2	.9337880	211.6856	6.268280	53.61370	.2287401	-.009540
#3	.9184116	207.8311	6.183978	53.03762	.2296864	-.009520

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.757423	.2476471	3.955394	9.872098	F 22.63044	.0786746
Stddev	.118193	.0050194	.061101	.158850	.16517	.0004750
%RSD	4.286355	2.026824	1.544741	1.609077	.7298405	.6037474
#1	2.821480	.2498286	3.981416	9.923541	22.75714	.0782675
#2	2.829760	.2512065	3.999175	9.998852	22.44364	.0785598
#3	2.621029	.2419060	3.885590	9.693903	22.69055	.0791965

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4939-05 Acquired: 12/02/2024 22:00:08 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHT8 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0087119	4.278012	5.778571	.3311357	1.046829	.1032476
Stddev	.0003466	.041400	.053951	.0051245	.011596	.0025601
%RSD	3.977999	.9677496	.9336386	1.547539	1.107712	2.479578
#1	.0089567	4.324086	5.819319	.3304442	1.053390	.1048249
#2	.0083153	4.243935	5.799006	.3263921	1.053657	.1046242
#3	.0088635	4.266014	5.717387	.3365707	1.033440	.1002937

Elem	Sr4077
Units	ppm
Avg	.8114278
Stddev	.0081248
%RSD	1.001303
#1	.8169437
#2	.8152421
#3	.8020976

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1111.033	33202.35	6669.200	981.6853	1544.704
Stddev	5.425	173.96	42.560	12.9154	11.735
%RSD	.4882718	.5239512	.6381514	1.315635	.7597101
#1	1105.669	33065.27	6643.202	979.3578	1531.579
#2	1116.517	33143.73	6646.081	970.0919	1554.187
#3	1110.913	33398.05	6718.315	995.6061	1548.345

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4939-06 Acquired: 12/02/2024 22:04:30 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHT9 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1160904	-.009293	4.896228	-.009436	.0419275	75.18275
Stddev	.0067436	.007398	.024183	.010060	.0045876	1.87078
%RSD	5.808930	79.60660	.4939184	106.6125	10.94184	2.488314
#1	.1209822	-.000816	4.914481	.001826	.0422820	74.22059
#2	.1188914	-.014441	4.868799	-.012602	.0371729	73.98886
#3	.1083977	-.012622	4.905403	-.017533	.0463276	77.33879

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.918497	.0054057	.0161175	443.2428	.1651407	.0795318
Stddev	.084068	.0001622	.0001959	11.9528	.0028590	.0005801
%RSD	2.880526	3.000601	1.215729	2.696673	1.731230	.7293819
#1	2.874424	.0052595	.0163436	435.9153	.1640005	.0790330
#2	2.865630	.0053774	.0160130	436.7773	.1683938	.0801684
#3	3.015438	.0055802	.0159960	457.0357	.1630277	.0793939

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7745882	171.0680	7.521895	57.69579	.1788716	-.007212
Stddev	.0236178	4.2884	.215987	1.39526	.0024722	.000839
%RSD	3.049075	2.506819	2.871448	2.418301	1.382134	11.63131
#1	.7625000	168.7583	7.381273	56.90304	.1808044	-.007050
#2	.7594613	168.4295	7.413825	56.87751	.1760858	-.006465
#3	.8018031	176.0161	7.770586	59.30683	.1797245	-.008119

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.966398	.2140960	2.898129	10.30820	F 24.99451	.0879709
Stddev	.205367	.0050585	.045019	.48073	.17641	.0064814
%RSD	10.44384	2.362730	1.553391	4.663575	.7057936	7.367642
#1	2.185392	.2143397	2.898810	10.03271	25.15913	.0894087
#2	1.778116	.2089200	2.942804	10.02861	24.80830	.0808913
#3	1.935686	.2190282	2.852773	10.86330	25.01609	.0936126

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4939-06 Acquired: 12/02/2024 22:04:30 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHT9 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0063028	3.892105	4.476241	.3180102	1.037404	.1012761
Stddev	.0007397	.024057	.080062	.0008808	.024723	.0044551
%RSD	11.73644	.6180967	1.788599	.2769686	2.383123	4.398935
#1	.0054676	3.901563	4.420523	.3181375	1.025753	.0995717
#2	.0068754	3.864757	4.440214	.3188204	1.020660	.0979250
#3	.0065655	3.909996	4.567987	.3170727	1.065800	.1063318

Elem	Sr4077
Units	ppm
Avg	.9706091
Stddev	.0265599
%RSD	2.736414
#1	.9558901
#2	.9546675
#3	1.001270

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1117.922	33225.72	6605.940	985.1884	1522.648
Stddev	3.867	315.64	132.573	14.2536	8.065
%RSD	.3459323	.9499743	2.006873	1.446794	.5296736
#1	1114.306	33373.00	6702.191	986.9117	1516.928
#2	1121.999	32863.37	6660.903	970.1515	1531.872
#3	1117.462	33440.80	6454.725	998.5021	1519.144

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4939-07 Acquired: 12/02/2024 22:08:53 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHW0 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1205697	-.014645	4.635912	-.005097	.0081156	79.54663
Stddev	.0022518	.004601	.092069	.003842	.0015688	.04270
%RSD	1.867644	31.41457	1.985986	75.36886	19.33097	.0536849
#1	.1228660	-.009766	4.546704	-.001433	.0080897	79.50293
#2	.1183651	-.018904	4.730596	-.009095	.0065599	79.58827
#3	.1204780	-.015265	4.630436	-.004763	.0096972	79.54870

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.935045	.0056013	.0172731	493.4392	.1932825	.0831244
Stddev	.004198	.0000651	.0006225	1.4936	.0040243	.0019966
%RSD	.1430303	1.163090	3.604102	.3026988	2.082054	2.401918
#1	2.931426	.0055466	.0167012	491.7576	.1912889	.0809478
#2	2.939647	.0055841	.0179362	494.6118	.1906442	.0848708
#3	2.934062	.0056734	.0171820	493.9482	.1979143	.0835546

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6876712	167.1599	7.160201	61.47053	.2066924	-.007940
Stddev	.0023304	.2032	.025173	.09715	.0045392	.001001
%RSD	.3388890	.1215841	.3515653	.1580453	2.196113	12.60506
#1	.6898702	167.3304	7.131203	61.36414	.2035597	-.007995
#2	.6879148	167.2143	7.176423	61.55453	.2118980	-.008913
#3	.6852285	166.9350	7.172980	61.49294	.2046196	-.006913

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.517146	.2153813	2.719121	10.63387	F 28.46379	.0857983
Stddev	.354770	.0022473	.050739	.15479	.56394	.0044412
%RSD	14.09415	1.043413	1.866004	1.455661	1.981238	5.176318
#1	2.111847	.2138653	2.705978	10.55263	27.92611	.0908934
#2	2.668205	.2143153	2.676246	10.53661	29.05075	.0827463
#3	2.771385	.2179632	2.775138	10.81237	28.41452	.0837553

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4939-07 Acquired: 12/02/2024 22:08:53 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHW0 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0068487	4.163742	4.018562	.3655204	.9752055	.1096112
Stddev	.0005350	.084305	.052899	.0104544	.0020504	.0006899
%RSD	7.811198	2.024753	1.316367	2.860135	.2102572	.6293923
#1	.0064192	4.086584	3.957714	.3552509	.9749839	.1104051
#2	.0074480	4.253725	4.044350	.3761503	.9773577	.1091576
#3	.0066790	4.150915	4.053621	.3651600	.9732748	.1092710

Elem	Sr4077
Units	ppm
Avg	1.065991
Stddev	.001674
%RSD	.1570309
#1	1.064061
#2	1.067047
#3	1.066865

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1138.281	34118.71	6899.529	1003.414	1490.436
Stddev	12.966	449.89	62.944	17.659	28.470
%RSD	1.139119	1.318613	.9122982	1.759885	1.910163
#1	1151.010	34240.21	6971.243	1002.248	1516.954
#2	1125.090	34495.38	6853.434	1021.627	1460.351
#3	1138.744	33620.55	6873.909	986.366	1494.003

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4939-08 Acquired: 12/02/2024 22:13:15 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHW6 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1038420	-.009899	3.338115	-.011748	.0082042	58.73220	.9778780
Stddev	.0088581	.005940	.022934	.002901	.0016620	.12357	.0012773
%RSD	8.530369	60.00906	.6870244	24.69704	20.25775	.2103896	.1306170
#1	.1108573	-.010055	3.364561	-.013250	.0067284	58.59541	.9770353
#2	.1067806	-.003882	3.323695	-.013591	.0078796	58.76546	.9793476
#3	.0938880	-.015760	3.326091	-.008404	.0100045	58.83574	.9772511

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0045397	.0143031	200.0150	.1321889	.0841332	.3812487	157.4931
Stddev	.0002069	.0001585	.2477	.0071109	.0003565	.0025201	.4024
%RSD	4.557114	1.108269	.1238304	5.379382	.4237803	.6610045	.2554823
#1	.0045076	.0144735	199.8351	.1280261	.0844941	.3810210	157.2814
#2	.0047607	.0141601	199.9124	.1403996	.0841245	.3788501	157.2407
#3	.0043507	.0142757	200.2975	.1281409	.0837811	.3838748	157.9571

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.886871	54.67544	.2184181	-.009300	1.520636	.1643556	1.489297
Stddev	.013216	.06555	.0025486	.002241	.163892	.0064460	.060953
%RSD	.1336739	.1198847	1.166862	24.10219	10.77786	3.921973	4.092750
#1	9.879181	54.66826	.2206712	-.010676	1.587055	.1602743	1.454988
#2	9.902132	54.61377	.2156520	-.006713	1.333960	.1610056	1.559672
#3	9.879301	54.74428	.2189310	-.010509	1.640894	.1717867	1.453231

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.273759	8.095809	.0558495	.0045492	4.265278	3.233845	.0815872
Stddev	.067184	.054095	.0009682	.0000601	.031056	.016079	.0021992
%RSD	1.070879	.6681885	1.733637	1.320958	.7281175	.4972182	2.695497
#1	6.196720	8.155648	.0569600	.0046135	4.297659	3.215773	.0840451
#2	6.304378	8.050373	.0554062	.0044944	4.235743	3.246569	.0798056
#3	6.320180	8.081407	.0551823	.0045397	4.262433	3.239193	.0809109

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4939-08 Acquired: 12/02/2024 22:13:15 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHW6 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	1.196177	.0536357	.4117620
Stddev	.002551	.0002814	.0004060
%RSD	.2132347	.5245887	.0985994
#1	1.193265	.0539010	.4115766
#2	1.198014	.0533406	.4122276
#3	1.197252	.0536655	.4114818

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1113.476	32526.66	6578.677	965.2261	1609.459
Stddev	3.614	1076.84	23.122	30.7960	10.625
%RSD	.3246105	3.310633	.3514673	3.190550	.6601839
#1	1110.326	33126.34	6582.663	978.7303	1599.100
#2	1117.422	31283.49	6599.546	929.9850	1620.332
#3	1112.680	33170.14	6553.821	986.9630	1608.943

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4939-09 Acquired: 12/02/2024 22:17:38 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHW7 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1143497	-.005450	3.624282	-.008050	.0082226	60.85015	1.042937
Stddev	.0106341	.002751	.083560	.002347	.0033498	.15354	.001569
%RSD	9.299621	50.48269	2.305549	29.15263	40.73864	.2523326	.1504656
#1	.1249976	-.006431	3.650747	-.010751	.0098662	60.97588	1.043848
#2	.1037295	-.002342	3.530695	-.006513	.0043685	60.67903	1.041125
#3	.1143221	-.007576	3.691405	-.006886	.0104330	60.89554	1.043838

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0049788	.0152649	231.6157	.1287691	.0839100	.3976212	151.0729
Stddev	.0001426	.0001969	.6013	.0026627	.0020394	.0025224	.4216
%RSD	2.863510	1.290108	.2595913	2.067838	2.430509	.6343617	.2790894
#1	.0050266	.0152790	232.0273	.1261319	.0840952	.4004316	151.1910
#2	.0050913	.0150613	230.9257	.1287189	.0817843	.3968782	150.6048
#3	.0048185	.0154544	231.8941	.1314566	.0858506	.3955539	151.4228

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.587007	52.67360	.2181898	-.009750	1.744705	.1715941	1.482583
Stddev	.014665	.07608	.0053997	.000542	.341017	.0023998	.025637
%RSD	.1529649	.1444337	2.474765	5.560067	19.54584	1.398562	1.729232
#1	9.597155	52.71441	.2195036	-.010281	1.351140	.1730893	1.455162
#2	9.570193	52.58583	.2122545	-.009774	1.952557	.1728669	1.486632
#3	9.593672	52.72057	.2228113	-.009197	1.930419	.1688259	1.505954

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.759003	8.533216	.0448998	.0034982	3.277024	6.268782	.0794702
Stddev	.048788	.201322	.0007660	.0004049	.093829	.007676	.0024843
%RSD	.8471684	2.359270	1.705967	11.57550	2.863224	.1224504	3.126037
#1	5.812444	8.589927	.0446467	.0036329	3.312275	6.260608	.0788293
#2	5.716843	8.309621	.0457603	.0038186	3.170675	6.275837	.0773692
#3	5.747724	8.700099	.0442924	.0030431	3.348122	6.269902	.0822121

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4939-09 Acquired: 12/02/2024 22:17:38 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHW7 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	1.268516	.0615522	.3162933
Stddev	.001650	.0009005	.0004278
%RSD	.1300871	1.463006	.1352569
#1	1.266643	.0623672	.3164823
#2	1.269149	.0605855	.3158036
#3	1.269756	.0617039	.3165941

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1123.036	33265.68	6635.233	983.6987	1602.577
Stddev	12.487	228.92	23.198	11.3866	30.726
%RSD	1.111854	.6881486	.3496182	1.157533	1.917286
#1	1118.944	33528.23	6608.580	993.2041	1590.096
#2	1137.055	33160.94	6646.253	986.8132	1637.580
#3	1113.110	33107.88	6650.868	971.0789	1580.056

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4939-13 Acquired: 12/02/2024 22:22:00 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHX5 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1812708	-.007297	8.668486	-.001974	.0020980	62.67535
Stddev	.0031894	.001665	.082404	.004395	.0024861	.57487
%RSD	1.759444	22.81563	.9506117	222.6966	118.4977	.9172201
#1	.1775881	-.007451	8.594341	-.003705	.0009019	62.43191
#2	.1830948	-.008879	8.653912	.003024	.0004361	63.33189
#3	.1831294	-.005560	8.757204	-.005240	.0049560	62.26225

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.094323	.0054874	.0149800	29.44742	.2080413	.1025673
Stddev	.016971	.0001868	.0004375	.22741	.0006864	.0008908
%RSD	.8103254	3.403191	2.920268	.7722641	.3299168	.8685314
#1	2.092692	.0056899	.0146702	29.47785	.2075531	.1023003
#2	2.112050	.0054504	.0147895	29.65809	.2077447	.1018405
#3	2.078226	.0053220	.0154805	29.20633	.2088261	.1035611

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5756020	166.1700	12.28122	13.56265	.2163346	-.012605
Stddev	.0043512	1.5417	.10548	.15391	.0032792	.000314
%RSD	.7559376	.9278012	.8588378	1.134836	1.515808	2.488190
#1	.5754941	165.7749	12.28438	13.49125	.2136532	-.012818
#2	.5800061	167.8708	12.38509	13.73929	.2153600	-.012752
#3	.5713057	164.8642	12.17421	13.45740	.2199907	-.012245

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.473254	.1958354	2.080928	6.465196	F 14.40669	.0398514
Stddev	.240910	.0079951	.003188	.156731	.14094	.0025009
%RSD	16.35224	4.082589	.1531893	2.424219	.9782726	6.275484
#1	1.249385	.2047996	2.077317	6.451122	14.28473	.0375656
#2	1.442187	.1932650	2.082117	6.628489	14.37435	.0425226
#3	1.728191	.1894416	2.083351	6.315977	14.56099	.0394659

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4939-13 Acquired: 12/02/2024 22:22:00 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHX5 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0114282	3.093480	5.365835	.4115309	1.301130	.0460691
Stddev	.0006475	.039837	.053748	.0045194	.015387	.0012869
%RSD	5.665492	1.287786	1.001676	1.098197	1.182576	2.793323
#1	.0120322	3.052165	5.388052	.4073980	1.300014	.0458664
#2	.0107446	3.096622	5.404913	.4108378	1.317044	.0474453
#3	.0115078	3.131654	5.304540	.4163568	1.286331	.0448956

Elem	Sr4077
Units	ppm
Avg	.1446692
Stddev	.0012472
%RSD	.8621105
#1	.1441929
#2	.1460844
#3	.1437304

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1218.374	36445.06	6986.316	1074.632	1730.700
Stddev	6.690	91.17	65.853	2.789	14.218
%RSD	.5491085	.2501592	.9425990	.2595229	.8215430
#1	1224.770	36543.10	6968.001	1075.580	1744.348
#2	1218.929	36429.25	6931.560	1076.823	1731.780
#3	1211.424	36362.83	7059.388	1071.493	1715.973

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4939-14 Acquired: 12/02/2024 22:26:23 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHX6 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1826793	-.003783	9.243980	.0030488	.0013503	67.59686
Stddev	.0048765	.002229	.017836	.0043908	.0036301	.37518
%RSD	2.669441	58.90524	.1929518	144.0171	268.8446	.5550202
#1	.1878830	-.001213	9.224036	.0025888	.0016516	67.54843
#2	.1819408	-.004966	9.258404	.0076514	.0048202	67.24824
#3	.1782142	-.005171	9.249498	-.001094	-.002421	67.99389

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.593216	.0055281	.0174150	26.66077	.2367012	.1115709
Stddev	.016300	.0001257	.0000453	.16053	.0038481	.0013632
%RSD	.6285777	2.274106	.2602271	.6021311	1.625701	1.221811
#1	2.591664	.0053833	.0174522	26.64501	.2324302	.1099971
#2	2.577747	.0055917	.0174282	26.50870	.2398979	.1123310
#3	2.610237	.0056093	.0173645	26.82860	.2377755	.1123846

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.494259	198.8649	14.57765	13.79563	.2248450	-.011565
Stddev	.012586	.7170	.09719	.09202	.0006662	.000675
%RSD	.8422589	.3605280	.6667356	.6670565	.2962773	5.838101
#1	1.486369	198.5883	14.54077	13.83934	.2247070	-.012232
#2	1.487635	198.3275	14.50430	13.68990	.2255694	-.010882
#3	1.508774	199.6790	14.68789	13.85766	.2242587	-.011582

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.550712	.2151270	2.678053	7.264492	F 13.05942	.0429989
Stddev	.246904	.0022007	.040216	.225450	.02762	.0020885
%RSD	15.92196	1.022982	1.501693	3.103449	.2114962	4.857177
#1	1.454661	.2169251	2.635160	7.220413	13.03259	.0453140
#2	1.831207	.2157831	2.714909	7.064338	13.05791	.0424266
#3	1.366268	.2126729	2.684091	7.508726	13.08777	.0412562

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4939-14 Acquired: 12/02/2024 22:26:23 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHX6 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0115793	2.977939	5.551820	.6187866	1.363353	.0523407
Stddev	.0003575	.005220	.017031	.0005163	.004441	.0003120
%RSD	3.087144	.1752997	.3067592	.0834345	.3257544	.5961399
#1	.0118133	2.979275	5.555307	.6186741	1.365127	.0520337
#2	.0111679	2.972180	5.533315	.6193498	1.358300	.0523309
#3	.0117568	2.982361	5.566837	.6183358	1.366634	.0526575

Elem	Sr4077
Units	ppm
Avg	.1649264
Stddev	.0010872
%RSD	.6592216
#1	.1646910
#2	.1639762
#3	.1661121

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1197.612	35516.22	6813.103	1058.986	1745.789
Stddev	5.097	327.20	25.891	15.187	4.533
%RSD	.4255799	.9212577	.3800113	1.434090	.2596475
#1	1201.060	35826.38	6812.366	1074.342	1750.482
#2	1191.757	35174.31	6839.353	1043.974	1741.435
#3	1200.018	35547.98	6787.588	1058.640	1745.449

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4939-15 Acquired: 12/02/2024 22:30:45 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHY5 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0586824	-.008235	.5034302	-.012659	.0045916	67.84122	.6056244
Stddev	.0022300	.001895	.0023913	.003204	.0028038	.08371	.0006425
%RSD	3.800053	23.01479	.4750096	25.30927	61.06311	.1233863	.1060927
#1	.0608156	-.006655	.5042080	-.009779	.0075905	67.74706	.6056688
#2	.0563669	-.010336	.5007467	-.016110	.0041488	67.90722	.6062436
#3	.0588647	-.007713	.5053357	-.012088	.0020356	67.86937	.6049609

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0040819	.0098169	191.0649	.1104460	.0736660	.1760339	161.5245
Stddev	.0001342	.0002134	.3390	.0010124	.0001294	.0006017	.2379
%RSD	3.286685	2.173443	.1774501	.9166520	.1756887	.3417954	.1473041
#1	.0042066	.0099952	190.6735	.1101712	.0738040	.1765989	161.2676
#2	.0039399	.0095805	191.2667	.1095994	.0735474	.1761016	161.7374
#3	.0040990	.0098748	191.2546	.1115675	.0736466	.1754013	161.5684

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.355868	86.72532	.1796669	-.011004	1.459019	.1681691	.7224107
Stddev	.006515	.43149	.0016283	.000482	.215194	.0026147	.0041236
%RSD	.1216431	.4975329	.9062941	4.377027	14.74919	1.554785	.5708106
#1	5.357968	86.23106	.1779664	-.011496	1.696632	.1651951	.7268345
#2	5.361075	86.91806	.1812119	-.010983	1.277258	.1701068	.7186735
#3	5.348562	87.02685	.1798223	-.010534	1.403167	.1692054	.7217241

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	10.21146	6.988766	.0470411	.0031578	4.574568	5.862253	.0145309
Stddev	.07951	.025234	.0015664	.0001917	.013539	.020061	.0017760
%RSD	.7786695	.3610599	3.329921	6.071609	.2959666	.3422127	12.22229
#1	10.23260	6.965955	.0465883	.0031735	4.564276	5.881568	.0164566
#2	10.12351	7.015871	.0487840	.0029588	4.589905	5.863672	.0141789
#3	10.27826	6.984470	.0457509	.0033413	4.569521	5.841520	.0129573

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4939-15 Acquired: 12/02/2024 22:30:45 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHY5 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	1.316311	.0664349	.2262708
Stddev	.001032	.0014928	.0003715
%RSD	.0784090	2.246965	.1641982
#1	1.316313	.0647320	.2260476
#2	1.315278	.0670553	.2266997
#3	1.317342	.0675175	.2260651

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1092.098	32365.80	6402.770	966.6889	1592.949
Stddev	.818	58.24	10.077	3.0808	1.079
%RSD	.0748725	.1799557	.1573786	.3186972	.0677492
#1	1091.679	32430.26	6412.228	964.5675	1591.776
#2	1093.040	32350.22	6392.172	970.2226	1593.171
#3	1091.574	32316.94	6403.912	965.2764	1593.900

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4939-16 Acquired: 12/02/2024 22:35:08 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHY6 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0736342	-.006319	.5825218	-.000557	.0050021	71.09261	.6503936
Stddev	.0033855	.005029	.0006563	.006828	.0015389	.28365	.0008509
%RSD	4.597736	79.57822	.1126676	1226.034	30.76569	.3989913	.1308285
#1	.0733768	-.004093	.5828865	-.002695	.0067266	71.34847	.6513300
#2	.0771411	-.002788	.5817641	.007084	.0045114	70.78759	.6501831
#3	.0703848	-.012077	.5829147	-.006060	.0037684	71.14178	.6496677

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0046148	.0101807	214.6367	.1164412	.0793438	.1902869	167.5970
Stddev	.0002069	.0001795	.3138	.0007000	.0008171	.0031835	.6153
%RSD	4.483050	1.762955	.1462063	.6011741	1.029888	1.672985	.3671012
#1	.0047740	.0101855	214.9974	.1170368	.0802551	.1881264	168.1545
#2	.0043809	.0103578	214.4263	.1156701	.0786764	.1939427	166.9369
#3	.0046895	.0099989	214.4863	.1166166	.0790999	.1887916	167.6996

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.355074	90.04686	.1950996	-.011436	1.513444	.1766640	.7613797
Stddev	.007699	.54115	.0008842	.000570	.182659	.0036512	.0045304
%RSD	.1437699	.6009626	.4532060	4.981181	12.06911	2.066756	.5950292
#1	5.363194	90.47668	.1959172	-.011644	1.577482	.1729527	.7564693
#2	5.347879	89.43916	.1941612	-.010792	1.655462	.1802521	.7653972
#3	5.354149	90.22475	.1952205	-.011873	1.307388	.1767871	.7622726

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	8.462799	6.101894	.0450815	.0026276	4.496661	5.966978	.0145706
Stddev	.083152	.010186	.0025414	.0004813	.011288	.039549	.0066311
%RSD	.9825601	.1669325	5.637435	18.31738	.2510201	.6627920	45.51033
#1	8.525194	6.092590	.0467483	.0029482	4.508111	5.985004	.0181475
#2	8.494803	6.112778	.0421564	.0028604	4.485543	5.921627	.0069190
#3	8.368400	6.100315	.0463398	.0020741	4.496329	5.994301	.0186452

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4939-16 Acquired: 12/02/2024 22:35:08 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHY6 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	1.340913	.0677132	.2614112
Stddev	.004267	.0011577	.0008875
%RSD	.3181795	1.709675	.3394875
#1	1.345787	.0678512	.2618359
#2	1.339102	.0687958	.2603912
#3	1.337851	.0664928	.2620064

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1095.177	32449.04	6437.796	965.5964	1593.953
Stddev	3.829	126.03	22.061	8.7117	6.305
%RSD	.3496448	.3883879	.3426782	.9022140	.3955323
#1	1091.074	32433.65	6418.744	967.3718	1587.102
#2	1095.803	32331.42	6461.966	956.1338	1595.245
#3	1098.655	32582.06	6432.678	973.2838	1599.511

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4939-17 Acquired: 12/02/2024 22:39:32 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHY7 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1246561	-.012969	1.159531	-.000510	.0067763	71.10567	.7393686
Stddev	.0066516	.003899	.017317	.009746	.0028849	.03967	.0018054
%RSD	5.335978	30.06525	1.493461	1912.104	42.57299	.0557886	.2441851
#1	.1321818	-.013006	1.144102	.005848	.0054016	71.10528	.7411733
#2	.1222227	-.016850	1.156230	.004353	.0100914	71.14554	.7393700
#3	.1195639	-.009052	1.178261	-.011730	.0048358	71.06620	.7375624

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0047164	.0132212	338.8592	.1168537	.0819511	.2479372	189.8184
Stddev	.0001314	.0002956	.3199	.0062127	.0026534	.0012803	.1191
%RSD	2.786337	2.235469	.0944016	5.316635	3.237823	.5163852	.0627585
#1	.0048526	.0129735	339.2205	.1108283	.0813207	.2465149	189.7450
#2	.0045904	.0131417	338.7447	.1232381	.0796697	.2482989	189.9558
#3	.0047063	.0135484	338.6123	.1164946	.0848630	.2489977	189.7543

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.142677	122.0939	.2045735	-.008869	2.086209	.1790316	.9946286
Stddev	.002728	.2496	.0030495	.003472	.140494	.0054917	.0585281
%RSD	.0444123	.2044579	1.490636	39.14196	6.734419	3.067446	5.884417
#1	6.143604	121.9952	.2021698	-.011898	2.248399	.1727076	.9443608
#2	6.139606	122.3778	.2035470	-.005081	2.008176	.1817892	1.058883
#3	6.144820	121.9088	.2080038	-.009629	2.002052	.1825981	.980642

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.400999	5.996438	.0436942	.0030592	5.341566	5.913294	.0439384
Stddev	.059203	.090296	.0041921	.0004907	.089055	.023308	.0009291
%RSD	.7999334	1.505832	9.594065	16.04067	1.667203	.3941624	2.114601
#1	7.335563	5.922230	.0469896	.0034645	5.281220	5.896866	.0441742
#2	7.416580	5.970112	.0389759	.0025136	5.299632	5.939971	.0447269
#3	7.450853	6.096971	.0451170	.0031996	5.443847	5.903047	.0429141

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4939-17 Acquired: 12/02/2024 22:39:32 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHY7 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	1.477006	.0720666	.4414386
Stddev	.005509	.0007338	.0004351
%RSD	.3729785	1.018170	.0985727
#1	1.471448	.0719596	.4412297
#2	1.482465	.0728480	.4419388
#3	1.477104	.0713923	.4411474

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1059.764	31233.67	6325.133	922.9464	1524.723
Stddev	8.668	1560.67	16.553	47.6188	20.098
%RSD	.8178857	4.996755	.2617018	5.159436	1.318137
#1	1065.741	32630.60	6313.049	964.8274	1538.209
#2	1063.727	29549.24	6344.000	871.1508	1534.336
#3	1049.823	31521.17	6318.351	932.8611	1501.624

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4939-18 Acquired: 12/02/2024 22:43:56 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHY8 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1374676	-.012522	.4387841	-.014010	.0021194	96.96336	1.220491
Stddev	.0045088	.003038	.0143243	.008483	.0025981	1.86382	.027972
%RSD	3.279919	24.25892	3.264533	60.54861	122.5863	1.922191	2.291846
#1	.1325168	-.015756	.4426668	-.013726	.0032670	96.65147	1.217934
#2	.1413381	-.009728	.4507668	-.022631	.0039461	98.96345	1.249653
#3	.1385480	-.012082	.4229188	-.005672	-.000855	95.27516	1.193885

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0062437	.0165998	790.9689	.1388614	.1043609	.2362366	207.0133
Stddev	.0003176	.0008086	11.6053	.0022124	.0042951	.0060390	3.8757
%RSD	5.086265	4.870930	1.467230	1.593265	4.115661	2.556343	1.872216
#1	.0060169	.0169023	783.7511	.1380880	.1061295	.2341416	205.8897
#2	.0066066	.0172136	804.3559	.1371396	.1074894	.2430441	211.3266
#3	.0061076	.0156837	784.7997	.1413568	.0994639	.2315240	203.8234

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.992617	305.2271	.2278369	-.001856	2.101347	.2065919	1.448246
Stddev	.167279	5.8006	.0038256	.001081	.093206	.0016842	.023541
%RSD	2.392217	1.900434	1.679083	58.22051	4.435556	.8152475	1.625472
#1	6.964737	303.5286	.2306784	-.002323	2.014696	.2046630	1.431349
#2	7.172084	311.6874	.2293451	-.002625	2.199955	.2073416	1.438255
#3	6.841030	300.4654	.2234871	-.000620	2.089390	.2077712	1.475135

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	8.320679	4.294670	.0535841	.0028718	5.784038	6.470914	.0083242
Stddev	.276850	.130559	.0060497	.0010069	.165392	.111556	.0013522
%RSD	3.327252	3.040030	11.29003	35.06292	2.859456	1.723953	16.24446
#1	8.240998	4.357734	.0589815	.0038415	5.884301	6.430018	.0076791
#2	8.628631	4.381724	.0547258	.0018314	5.874672	6.597145	.0074154
#3	8.092407	4.144550	.0470449	.0029424	5.593140	6.385577	.0098782

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4939-18 Acquired: 12/02/2024 22:43:56 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHY8 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	1.012331	.1273467	.7858054
Stddev	.017243	.0042824	.0162931
%RSD	1.703299	3.362822	2.073423
#1	1.007729	.1260792	.7837761
#2	1.031409	.1321198	.8030181
#3	.997856	.1238411	.7706221

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1008.912	29535.85	6053.441	872.1720	1415.651
Stddev	24.506	317.67	107.238	11.3702	41.690
%RSD	2.428959	1.075539	1.771514	1.303668	2.944932
#1	997.361	29787.56	6090.322	881.2113	1394.849
#2	992.316	29641.06	5932.630	875.8986	1388.455
#3	1037.059	29178.92	6137.371	859.4061	1463.649

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4939-19 Acquired: 12/02/2024 22:48:29 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHY9 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0515608	-.020540	.3103879	-.013700	.0085124	129.0025	1.708623
Stddev	.0051400	.004040	.0014345	.001334	.0005951	.8131	.011166
%RSD	9.968764	19.66971	.4621566	9.738467	6.991034	.6302813	.6535285
#1	.0479179	-.018171	.3101011	-.015124	.0082436	129.8306	1.721419
#2	.0493243	-.018243	.3091185	-.013499	.0091945	128.2053	1.700854
#3	.0574401	-.025204	.3119441	-.012478	.0080991	128.9715	1.703595

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0076835	.0174401	618.3208	.1801387	.1173396	.2751023	244.2885
Stddev	.0001091	.0002127	3.1309	.0004174	.0001759	.0013557	1.5530
%RSD	1.419457	1.219881	.5063631	.2317151	.1499305	.4927845	.6357124
#1	.0076039	.0172274	615.9901	.1799194	.1171365	.2738458	245.8085
#2	.0078078	.0174401	617.0926	.1798767	.1174438	.2765391	242.7045
#3	.0076388	.0176529	621.8796	.1806201	.1174386	.2749221	244.3525

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.059342	176.1070	.2925640	-.009843	2.125144	.2417376	1.407447
Stddev	.037564	1.3179	.0029254	.000491	.364470	.0056684	.007901
%RSD	.7424623	.7483467	.9999105	4.991672	17.15036	2.344837	.5613658
#1	5.102518	177.4074	.2931553	-.009855	2.022970	.2362685	1.415956
#2	5.034165	174.7723	.2951485	-.009346	2.529797	.2413583	1.406042
#3	5.041343	176.1411	.2893881	-.010328	1.822666	.2475861	1.400343

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.586944	5.001225	.0541552	.0032355	3.543948	4.149705	.0050780
Stddev	.118353	.012141	.0013750	.0004822	.024493	.028793	.0008241
%RSD	1.796787	.2427605	2.538942	14.90243	.6911276	.6938498	16.22961
#1	6.694106	5.010241	.0557208	.0029229	3.555395	4.175944	.0048016
#2	6.459914	5.006014	.0531442	.0029927	3.560623	4.118904	.0044276
#3	6.606812	4.987420	.0536005	.0037907	3.515827	4.154269	.0060048

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4939-19 Acquired: 12/02/2024 22:48:29 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHY9 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	1.178360	.1767483	1.112174
Stddev	.007276	.0011699	.007471
%RSD	.6174629	.6619310	.6717637
#1	1.184609	.1778361	1.120682
#2	1.170372	.1755106	1.106682
#3	1.180100	.1768981	1.109158

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1030.475	30746.22	6286.965	908.4266	1441.802
Stddev	2.036	76.12	43.508	7.3039	4.737
%RSD	.1975754	.2475666	.6920272	.8040137	.3285566
#1	1029.994	30658.78	6249.167	900.2200	1440.467
#2	1028.723	30797.64	6334.524	910.8460	1437.876
#3	1032.709	30782.24	6277.203	914.2137	1447.064

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4939-20 Acquired: 12/02/2024 22:53:02 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHZ0 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0361120	-.017504	.3107885	-.013230	.0107704	138.0658	1.810484
Stddev	.0063760	.004829	.0024914	.004996	.0038261	.0797	.002080
%RSD	17.65624	27.58543	.8016517	37.76328	35.52427	.0577517	.1149014
#1	.0425031	-.015109	.3081103	-.009750	.0135261	138.0012	1.812463
#2	.0297512	-.014342	.3112178	-.018955	.0064020	138.0413	1.810674
#3	.0360817	-.023063	.3130374	-.010985	.0123832	138.1549	1.808316

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0079503	.0166557	498.4201	.1818508	.1219828	.2751133	259.7530
Stddev	.0001832	.0004500	.6376	.0148185	.0020592	.0018504	.2003
%RSD	2.304813	2.701844	.1279310	8.148731	1.688095	.6726085	.0771115
#1	.0080579	.0163773	497.6838	.1896068	.1226820	.2731768	259.5291
#2	.0080542	.0164150	498.7829	.1911815	.1196651	.2752994	259.8147
#3	.0077387	.0171749	498.7934	.1647640	.1236014	.2768636	259.9152

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.293381	101.3021	.3038982	-.015950	2.137424	.2639705	1.232605
Stddev	.007337	.0860	.0026367	.004884	.098315	.0009291	.093961
%RSD	.1709010	.0849153	.8676185	30.62162	4.599698	.3519549	7.622936
#1	4.286942	101.2389	.3048782	-.013342	2.155243	.2646531	1.280830
#2	4.301370	101.4001	.3009118	-.012924	2.031418	.2643460	1.292661
#3	4.291832	101.2674	.3059045	-.021585	2.225611	.2629125	1.124324

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.994939	4.559612	.0580203	.0034068	1.516000	6.635492	.0098256
Stddev	.128670	.047322	.0038810	.0011749	.006507	.051241	.0039867
%RSD	2.146308	1.037852	6.688992	34.48660	.4292135	.7722257	40.57511
#1	5.922135	4.591761	.0593632	.0047516	1.518527	6.654722	.0079256
#2	6.143504	4.505272	.0536463	.0028894	1.508609	6.674336	.0144070
#3	5.919177	4.581802	.0610516	.0025793	1.520865	6.577418	.0071443

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4939-20 Acquired: 12/02/2024 22:53:02 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHZ0 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	1.187391	.1878628	1.260729
Stddev	.003005	.0008783	.000977
%RSD	.2530793	.4674937	.0775128
#1	1.190165	.1880601	1.259631
#2	1.187809	.1869027	1.261051
#3	1.184199	.1886256	1.261505

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1044.822	32484.82	6353.065	958.4165	1493.063
Stddev	5.578	2254.85	15.721	67.9285	14.168
%RSD	.5338840	6.941253	.2474601	7.087573	.9489172
#1	1042.754	31240.91	6364.864	921.8719	1485.300
#2	1051.138	31125.91	6359.113	916.5835	1509.416
#3	1040.573	35087.66	6335.218	1036.794	1484.474

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4939-21 Acquired: 12/02/2024 22:57:27 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHZ1 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0540629	-.012633	.3410864	-.019892	.0073056	107.2921	1.415241
Stddev	.0043803	.004446	.0065406	.006131	.0025408	.5638	.010200
%RSD	8.102211	35.19358	1.917563	30.81934	34.77886	.5254686	.7207263
#1	.0500407	-.008319	.3335342	-.023693	.0076000	107.6705	1.420595
#2	.0534181	-.012380	.3448166	-.023163	.0046304	107.5617	1.421649
#3	.0587298	-.017201	.3449084	-.012819	.0096864	106.6442	1.403478

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0068116	.0138171	647.9484	.1499890	.1041550	.2503333	210.4416
Stddev	.0000962	.0002414	.9663	.0023022	.0025587	.0013387	.6262
%RSD	1.412992	1.747391	.1491307	1.534927	2.456665	.5347758	.2975875
#1	.0069132	.0138770	649.0118	.1476684	.1036282	.2512472	210.8017
#2	.0067999	.0135513	647.7094	.1522723	.1069362	.2509562	210.8046
#3	.0067218	.0140229	647.1240	.1500264	.1019007	.2487967	209.7185

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.526127	200.7570	.2443345	-.005875	2.232797	.2102915	1.034002
Stddev	.049650	1.0058	.0009152	.000633	.236584	.0048637	.008080
%RSD	1.096958	.5010264	.3745637	10.76759	10.59586	2.312837	.7813843
#1	4.554620	201.3230	.2448654	-.006553	1.998969	.2153119	1.028627
#2	4.554965	201.3524	.2448603	-.005300	2.227376	.2099614	1.043294
#3	4.468797	199.5957	.2432777	-.005773	2.472044	.2056013	1.030086

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.700224	4.122439	.0722832	.0032326	2.927160	6.957376	.0096744
Stddev	.035777	.016867	.0011958	.0005995	.012223	.034599	.0025979
%RSD	.5339599	.4091414	1.654367	18.54527	.4175759	.4972938	26.85310
#1	6.728473	4.124441	.0711769	.0031179	2.916547	6.963815	.0071386
#2	6.712204	4.138216	.0721208	.0038811	2.940524	6.988302	.0123302
#3	6.659995	4.104661	.0735520	.0026987	2.924410	6.920010	.0095544

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4939-21 Acquired: 12/02/2024 22:57:27 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHZ1 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.9565582	.1469916	.9314929
Stddev	.0029904	.0007380	.0068366
%RSD	.3126152	.5020517	.7339418
#1	.9568259	.1466574	.9364470
#2	.9594057	.1478375	.9343388
#3	.9534430	.1464798	.9236931

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1009.936	30282.69	6164.322	888.8660	1449.087
Stddev	1.748	355.03	35.053	6.0813	5.252
%RSD	.1731290	1.172378	.5686404	.6841646	.3624012
#1	1011.331	30623.65	6134.981	890.2914	1449.205
#2	1007.975	29915.10	6154.846	882.1986	1443.777
#3	1010.503	30309.31	6203.138	894.1080	1454.278

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4939-22 Acquired: 12/02/2024 23:02:00 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHZ2 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1123988	-.010947	5.782032	-.008681	.0107594	77.61467
Stddev	.0016795	.005606	.025278	.006579	.0041155	.13697
%RSD	1.494268	51.21526	.4371903	75.78531	38.25063	.1764729
#1	.1127680	-.016326	5.768787	-.001924	.0070796	77.77273
#2	.1105654	-.011376	5.766127	-.015066	.0099950	77.53081
#3	.1138631	-.005138	5.811180	-.009053	.0152035	77.54047

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.881980	.0052689	.0350333	191.6050	.1737905	.0914018
Stddev	.006285	.0001886	.0001691	.2845	.0039093	.0006140
%RSD	.2180772	3.579750	.4825947	.1484661	2.249402	.6717477
#1	2.889154	.0050513	.0351883	191.9326	.1728185	.0921036
#2	2.879340	.0053860	.0348530	191.4212	.1704590	.0909638
#3	2.877446	.0053694	.0350586	191.4611	.1780941	.0911378

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F 34.16380	158.0226	8.671782	36.52603	.2161560	-.000659
Stddev	.03603	.2619	.012484	.06887	.0008634	.000676
%RSD	.1054494	.1657622	.1439634	.1885485	.3994288	102.6575
#1	34.20540	158.2792	8.686157	36.50027	.2158827	-.000576
#2	34.14317	157.7556	8.663665	36.47375	.2154622	-.001372
#3	34.14283	158.0328	8.665522	36.60406	.2171229	-.000027

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.193951	.2254502	5.031354	11.24844	F 24.74192	.0697764
Stddev	.268449	.0023328	.070241	.07710	.03957	.0029003
%RSD	12.23586	1.034744	1.396057	.6854026	.1599188	4.156505
#1	2.394829	.2235452	5.017061	11.17649	24.74091	.0724116
#2	2.297964	.2280521	4.969360	11.23903	24.70287	.0702485
#3	1.889060	.2247534	5.107642	11.32982	24.78199	.0666690

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4939-22 Acquired: 12/02/2024 23:02:00 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHZ2 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0096972	3.866469	5.998259	.2524119	1.287584	.0752858
Stddev	.0003747	.014315	.026924	.0018636	.003661	.0015002
%RSD	3.863935	.3702424	.4488586	.7383148	.2843090	1.992648
#1	.0093188	3.868991	5.987550	.2509981	1.288740	.0768198
#2	.0100681	3.851060	5.978338	.2545237	1.290527	.0752158
#3	.0097047	3.879355	6.028890	.2517138	1.283485	.0738219

Elem	Sr4077
Units	ppm
Avg	.4756079
Stddev	.0009103
%RSD	.1913958
#1	.4766381
#2	.4749124
#3	.4752730

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1168.650	35055.35	6922.767	1041.826	1615.837
Stddev	.852	385.02	11.033	11.450	2.391
%RSD	.0729000	1.098329	.1593668	1.099072	.1479946
#1	1169.431	35057.01	6922.742	1043.329	1618.548
#2	1168.778	35439.54	6933.812	1052.452	1614.931
#3	1167.741	34669.50	6911.746	1029.699	1614.030

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: CCV075 Acquired: 12/02/2024 23:06:21 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV075 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.356150	5.104113	24.62797	4.930313	4.710762	398.4206
Stddev	.005174	.024630	.03178	.007983	.009494	3.9267
%RSD	.0966081	.4825574	.1290364	.1619126	.2015404	.9855628
#1	5.362081	5.084992	24.60019	4.922319	4.713655	394.4331
#2	5.352558	5.095441	24.62111	4.930337	4.700158	402.2835
#3	5.353810	5.131907	24.66262	4.938284	4.718473	398.5453

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.953549	.5159514	2.610591	402.4606	15.28819	2.489543
Stddev	.076343	.0028823	.006682	3.1821	.04361	.006066
%RSD	.7669923	.5586360	.2559624	.7906614	.2852400	.2436617
#1	9.921429	.5154125	2.606248	400.8533	15.33808	2.484023
#2	10.04070	.5190651	2.607240	406.1258	15.25733	2.488568
#3	9.89851	.5133766	2.618285	400.4028	15.26916	2.496037

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	14.83665	405.1787	14.64331	420.6258	2.457267	1.246283
Stddev	.10657	2.7700	.11473	3.4120	.007345	.005998
%RSD	.7182819	.6836399	.7835016	.8111788	.2989101	.4812467
#1	14.81358	405.0473	14.60380	420.4484	2.450241	1.251550
#2	14.95286	408.0120	14.77258	424.1230	2.456665	1.239755
#3	14.74350	402.4768	14.55356	417.3059	2.464894	1.247542

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	401.6485	2.485037	14.25119	151.9548	5.024084	F 4.399625
Stddev	2.7391	.012724	.04217	.9308	.030598	.026216
%RSD	.6819762	.5120148	.2959085	.6125551	.6090183	.5958595
#1	402.0771	2.493792	14.21664	151.7926	4.988834	4.399150
#2	404.1480	2.490877	14.23874	152.9560	5.043778	4.426074
#3	398.7203	2.470441	14.29818	151.1157	5.039640	4.373650

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: CCV075 Acquired: 12/02/2024 23:06:21 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV075 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.803605	4.969248	F 3.458479	4.993325	4.999973	4.841489
Stddev	.006497	.023915	.014341	.007359	.038564	.038661
%RSD	.1352593	.4812641	.4146600	.1473673	.7712807	.7985355
#1	4.799302	4.971484	3.454677	4.996013	4.992925	4.830930
#2	4.800435	4.944294	3.474338	4.985000	5.041574	4.884333
#3	4.811079	4.991967	3.446422	4.998961	4.965419	4.809205

Elem	Sr4077
Units	ppm
Avg	4.917421
Stddev	.017647
%RSD	.3588768
#1	4.897050
#2	4.928055
#3	4.927159

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	820.9041	26146.91	5418.165	682.2331	1346.749
Stddev	1.7568	27.62	34.181	2.9079	3.474
%RSD	.2140124	.1056294	.6308575	.4262299	.2579817
#1	821.6670	26115.03	5444.787	685.2305	1349.491
#2	822.1506	26163.49	5379.619	682.0451	1347.914
#3	818.8948	26162.21	5430.089	679.4238	1342.842

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: CCB075 Acquired: 12/02/2024 23:10:50 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB075 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0069030	-.000366	-.000545	-.001984	.0009530	.0517103	.0005749
Stddev	.0069782	.002163	.001018	.010507	.0014977	.0094073	.0003395
%RSD	101.0889	590.7496	186.9671	529.5496	157.1541	18.19233	59.05076
#1	.0032926	.000553	-.000781	-.013807	-.000257	.0429918	.0008825
#2	.0024697	.001186	.000571	.001566	.002628	.0616810	.0006314
#3	.0149467	-.002836	-.001424	.006289	.000487	.0504580	.0002107

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000382	.0000076	.0120613	.0007484	.0000176	.0008008	.0066137
Stddev	.0001033	.0000493	.0022212	.0008435	.0005112	.0033555	.0116952
%RSD	270.4548	648.3958	18.41580	112.7108	2905.743	419.0073	176.8317
#1	.0001557	-.000029	.0108344	.0015646	-.000158	.0005364	-.006487
#2	-.000002	.000064	.0146253	-.000120	.000593	-.002415	.010324
#3	-.000039	-.000012	.0107243	.000801	-.000382	.004281	.016003

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0009790	.0030146	.0002005	.0011173	.2212924	-.001310	.0002744
Stddev	.0004522	.0373638	.0002072	.0010317	.4932363	.006767	.0001334
%RSD	46.18357	1239.418	103.3174	92.33326	222.8890	516.6273	48.62077
#1	.0007074	.0411998	.0004089	.0007986	-.250822	-.008316	.0004129
#2	.0015010	.0013138	.0001980	.0002827	.733236	-.000802	.0002635
#3	.0007287	-.033470	-.000005	.0022708	.181464	.005189	.0001468

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.153594	-.001253	-.001851	.0003497	.0003732	.0012061	-.000503
Stddev	.192349	.003960	.001146	.0008798	.0013179	.0000632	.001285
%RSD	125.2324	315.9430	61.90016	251.6197	353.1746	5.240344	255.4061
#1	-.375496	.002450	-.000803	.0012886	-.000344	.0012789	-.001051
#2	-.034409	-.000783	-.003074	-.000456	.001894	.0011664	-.001424
#3	-.050876	-.005427	-.001676	.000216	-.000431	.0011728	.000965

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: CCB075 Acquired: 12/02/2024 23:10:50 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB075 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0016631	-.007100	.0001674
Stddev	.0013249	.000766	.0000814
%RSD	79.66540	10.78700	48.61340
#1	.0012876	-.007934	.0002574
#2	.0005665	-.006428	.0000988
#3	.0031353	-.006939	.0001462

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1014.320	29710.43	5523.980	894.7882	1878.449
Stddev	5.862	495.37	65.838	13.7060	9.074
%RSD	.5778777	1.667335	1.191852	1.531763	.4830416
#1	1012.762	29838.21	5597.071	900.0349	1876.726
#2	1009.394	30129.40	5505.539	905.0958	1870.360
#3	1020.803	29163.69	5469.329	879.2339	1888.260

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4933-01 Acquired: 12/02/2024 23:15:23 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHR1 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2481749	-.010220	3.141775	.0007836	.0057428	76.06615
Stddev	.0091333	.002879	.010043	.0052584	.0050120	.04167
%RSD	3.680189	28.17296	.3196634	671.0842	87.27477	.0547776
#1	.2586979	-.011513	3.140841	-.003727	.0043554	76.10543
#2	.2435182	-.006921	3.132231	-.000482	.0015707	76.02245
#3	.2423085	-.012226	3.152252	.006559	.0113025	76.07057

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.285272	.0052604	.0180121	107.8301	.3001755	.1270686
Stddev	.001814	.0000451	.0002024	.1384	.0080578	.0005724
%RSD	.0793647	.8580617	1.123619	.1283251	2.684345	.4505053
#1	2.284747	.0053125	.0182449	107.7341	.2911261	.1277201
#2	2.287290	.0052355	.0179128	107.9887	.3065732	.1268390
#3	2.283778	.0052332	.0178785	107.7675	.3028274	.1266465

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5691731	206.2031	16.69431	38.80517	.2376381	-.016623
Stddev	.0027442	.2086	.02470	.24238	.0004690	.001437
%RSD	.4821359	.1011778	.1479458	.6245965	.1973442	8.641646
#1	.5681047	206.0681	16.70774	38.53075	.2376440	-.017960
#2	.5671238	206.4434	16.70938	38.98997	.2381041	-.015105
#3	.5722908	206.0979	16.66580	38.89480	.2371662	-.016804

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.163703	.2313266	2.112989	13.12988	F 21.59122	.0706954
Stddev	.279006	.0031209	.055940	.02157	.05653	.0022965
%RSD	12.89485	1.349124	2.647426	.1642781	.2617970	3.248428
#1	2.055791	.2329098	2.051234	13.10534	21.65551	.0711743
#2	2.480548	.2277315	2.160268	13.13850	21.56882	.0727147
#3	1.954770	.2333386	2.127465	13.14582	21.54932	.0681972

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4933-01 Acquired: 12/02/2024 23:15:23 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHR1 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0089703	5.080601	5.738233	.1701967	1.589257	.0800817
Stddev	.0008180	.020054	.024275	.0019390	.001140	.0007291
%RSD	9.119619	.3947103	.4230357	1.139242	.0717128	.9103906
#1	.0080947	5.059355	5.714368	.1691398	1.588133	.0808083
#2	.0097151	5.083250	5.762898	.1724345	1.589227	.0800867
#3	.0091010	5.099199	5.737434	.1690159	1.590412	.0793502

Elem	Sr4077
Units	ppm
Avg	.2831237
Stddev	.0006307
%RSD	.2227600
#1	.2838245
#2	.2829450
#3	.2826016

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1181.667	34827.25	6909.833	1028.755	1653.121
Stddev	4.463	743.21	25.094	21.387	4.480
%RSD	.3776554	2.133975	.3631675	2.078949	.2710096
#1	1176.684	35604.18	6890.172	1051.741	1649.292
#2	1183.020	34123.13	6901.230	1009.441	1652.023
#3	1185.297	34754.45	6938.097	1025.085	1658.048

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4933-02 Acquired: 12/02/2024 23:19:44 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHR2 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2293216	-.009421	3.803218	-.003132	.0071282	81.04107
Stddev	.0104024	.002851	.016957	.007588	.0021173	4.20065
%RSD	4.536150	30.26477	.4458710	242.3079	29.70283	5.183357
#1	.2202742	-.007197	3.822536	.001095	.0050092	82.70587
#2	.2406877	-.008429	3.796331	.001402	.0071317	76.26319
#3	.2270031	-.012635	3.790788	-.011892	.0092438	84.15414

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.426817	.0059117	.0198338	99.60246	.3021622	.1306913
Stddev	.123651	.0002301	.0005107	4.94731	.0086997	.0007067
%RSD	5.095173	3.891703	2.574894	4.967060	2.879154	.5407605
#1	2.474219	.0058274	.0194668	101.4955	.2927956	.1313892
#2	2.286479	.0057357	.0204170	93.9882	.3099896	.1307085
#3	2.519753	.0061721	.0196175	103.3237	.3037015	.1299761

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5749125	211.6868	17.06030	38.79197	.2561323	-.020391
Stddev	.0313188	10.9109	.86748	1.91368	.0017216	.001837
%RSD	5.447581	5.154246	5.084817	4.933180	.6721587	9.008812
#1	.5910223	216.0159	17.42621	39.49628	.2577892	-.022134
#2	.5388179	199.2757	16.06981	36.62595	.2543526	-.018473
#3	.5948972	219.7688	17.68487	40.25369	.2562550	-.020564

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.095656	.2468095	2.084602	10.39046	F 21.45899	.0738897
Stddev	.173062	.0114418	.058697	.58880	.05675	.0061744
%RSD	8.258122	4.635869	2.815760	5.666722	.2644751	8.356277
#1	2.255199	.2515735	2.021282	10.66897	21.52314	.0772155
#2	1.911673	.2337555	2.137199	9.71408	21.41532	.0667653
#3	2.120095	.2550995	2.095323	10.78834	21.43851	.0776883

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4933-02 Acquired: 12/02/2024 23:19:44 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHR2 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0080322	4.751625	5.835313	.1533172	1.378046	.0807186
Stddev	.0002820	.010632	.200891	.0015934	.071291	.0071872
%RSD	3.510833	.2237629	3.442674	1.039249	5.173374	8.904033
#1	.0080614	4.748166	5.873413	.1538577	1.408238	.0828823
#2	.0077367	4.743153	5.618100	.1545699	1.296627	.0726981
#3	.0082984	4.763556	6.014425	.1515238	1.429274	.0865754

Elem	Sr4077
Units	ppm
Avg	.2946862
Stddev	.0156863
%RSD	5.323039
#1	.3013124
#2	.2767742
#3	.3059720

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1239.951	37182.21	7286.627	1101.781	1663.950
Stddev	2.758	682.58	292.269	21.041	6.385
%RSD	.2224470	1.835767	4.011027	1.909703	.3837007
#1	1237.724	37952.70	7161.832	1124.875	1656.817
#2	1243.036	36653.18	7620.577	1083.699	1669.130
#3	1239.092	36940.76	7077.472	1096.770	1665.904

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4933-03 Acquired: 12/02/2024 23:24:06 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHR3 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1625744	.0013289	3.333937	-.006643	.0062003	63.44440
Stddev	.0055360	.0055898	.012900	.004498	.0021270	3.37797
%RSD	3.405182	420.6437	.3869307	67.70931	34.30450	5.324300
#1	.1661177	.0044185	3.319316	-.003144	.0044690	59.57967
#2	.1654104	.0046918	3.343712	-.011716	.0085745	64.92007
#3	.1561951	-.005124	3.338783	-.005069	.0055572	65.83347

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.268253	.0045684	.0148920	90.79641	.2115353	.0978970
Stddev	.117769	.0000379	.0003118	4.65822	.0019696	.0002231
%RSD	5.192077	.8295478	2.093531	5.130401	.9310864	.2279230
#1	2.133862	.0045934	.0151526	85.47523	.2118246	.0977170
#2	2.317453	.0045248	.0149768	92.77674	.2094371	.0978273
#3	2.353445	.0045870	.0145466	94.13726	.2133442	.0981467

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5297660	158.4308	15.68659	27.99952	.1933957	-.012404
Stddev	.0309225	8.1155	.79847	1.46583	.0008735	.000436
%RSD	5.837014	5.122448	5.090139	5.235196	.4516760	3.517151
#1	.4945178	149.1730	14.77607	26.31598	.1925931	-.012076
#2	.5424530	161.8018	16.01627	28.68989	.1943261	-.012899
#3	.5523272	164.3175	16.26743	28.99270	.1932677	-.012237

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.676049	.1868187	2.036042	8.243920	F 16.64332	.0578497
Stddev	.169411	.0114852	.016909	.617790	.04308	.0036770
%RSD	10.10776	6.147770	.8304650	7.493886	.2588320	6.356090
#1	1.550537	.1742600	2.035056	7.533867	16.59618	.0538081
#2	1.608861	.1894076	2.019647	8.539507	16.68065	.0587438
#3	1.868747	.1967885	2.053421	8.658387	16.65313	.0609971

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4933-03 Acquired: 12/02/2024 23:24:06 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHR3 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0065569	3.108178	5.705794	.1049122	1.202749	.0615343
Stddev	.0003146	.012235	.224908	.0010125	.063897	.0051385
%RSD	4.798264	.3936334	3.941755	.9651195	5.312586	8.350559
#1	.0063007	3.103211	5.447067	.1058633	1.129707	.0557028
#2	.0064619	3.099208	5.815694	.1038478	1.230246	.0635019
#3	.0069080	3.122115	5.854622	.1050255	1.248295	.0653982

Elem	Sr4077
Units	ppm
Avg	.2741298
Stddev	.0140483
%RSD	5.124678
#1	.2581115
#2	.2799221
#3	.2843559

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1166.847	34576.39	6854.909	1020.517	1689.563
Stddev	3.105	343.05	266.194	6.134	3.170
%RSD	.2661377	.9921648	3.883266	.6011103	.1876399
#1	1169.457	34810.09	7162.087	1022.716	1693.181
#2	1167.671	34736.54	6710.841	1025.249	1687.274
#3	1163.412	34182.55	6691.799	1013.586	1688.233

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4933-04 Acquired: 12/02/2024 23:28:27 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHR4 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2507618	-.006050	18.26975	-.002419	.0044612	77.74918
Stddev	.0096971	.003992	.04524	.005212	.0030026	.20175
%RSD	3.867061	65.99049	.2476105	215.4564	67.30464	.2594947
#1	.2607112	-.007855	18.23406	-.007956	.0025839	77.97895
#2	.2413384	-.001474	18.25457	-.001693	.0028754	77.66762
#3	.2502357	-.008821	18.32063	.002392	.0079242	77.60098

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.819014	.0058746	.0251618	153.4237	.2008582	.1579935
Stddev	.014587	.0000559	.0002324	.3384	.0011303	.0015187
%RSD	.3819469	.9506234	.9234361	.2205531	.5627201	.9612306
#1	3.833825	.0058743	.0250451	153.6366	.2007390	.1574086
#2	3.818554	.0058189	.0250108	153.6010	.2020433	.1568541
#3	3.804663	.0059306	.0254293	153.0335	.1997923	.1597176

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8433304	232.7705	28.11459	40.29864	.2678769	-.016863
Stddev	.0017428	.6609	.02405	.03246	.0015681	.000277
%RSD	.2066616	.2839086	.0855330	.0805593	.5853658	1.641934
#1	.8422076	233.5264	28.12093	40.33485	.2662593	-.017157
#2	.8424454	232.4831	28.13483	40.27213	.2693902	-.016825
#3	.8453382	232.3020	28.08800	40.28895	.2679812	-.016607

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.344333	.2586912	2.848871	10.05620	F 25.46035	.0765705
Stddev	.236855	.0067048	.013230	.07829	.06633	.0031092
%RSD	10.10328	2.591805	.4644102	.7785444	.2605132	4.060561
#1	2.435090	.2564727	2.834177	10.03976	25.42360	.0741013
#2	2.522388	.2533770	2.852596	10.14141	25.42054	.0800621
#3	2.075521	.2662241	2.859839	9.98744	25.53692	.0755480

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4933-04 Acquired: 12/02/2024 23:28:27 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHR4 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0112804	4.039496	6.179553	.2399046	1.303114	.0770708
Stddev	.0008183	.018743	.003319	.0014211	.004067	.0003004
%RSD	7.254383	.4639881	.0537079	.5923396	.3120871	.3897237
#1	.0117689	4.019350	6.179495	.2401522	1.307750	.0773621
#2	.0117366	4.056418	6.182900	.2383760	1.301448	.0770882
#3	.0103356	4.042720	6.176263	.2411856	1.300145	.0767621

Elem	Sr4077
Units	ppm
Avg	.4206000
Stddev	.0007062
%RSD	.1679127
#1	.4210068
#2	.4210087
#3	.4197845

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1228.867	36635.86	7219.163	1084.775	1610.508
Stddev	1.629	52.72	4.000	4.883	4.319
%RSD	.1325712	.1438894	.0554085	.4501548	.2681544
#1	1228.202	36686.14	7221.987	1089.728	1615.028
#2	1230.723	36581.01	7214.585	1084.631	1610.071
#3	1227.675	36640.45	7220.916	1079.965	1606.424

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4933-05 Acquired: 12/02/2024 23:32:49 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHR5 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1599885	-.004957	1.721128	-.020733	.0022073	60.82178
Stddev	.0092564	.002379	.015315	.007345	.0021900	.12588
%RSD	5.785633	47.99564	.8898192	35.42658	99.21630	.2069601
#1	.1586228	-.002353	1.731672	-.027682	.0047294	60.75946
#2	.1514909	-.005502	1.703561	-.021470	.0007876	60.73922
#3	.1698518	-.007017	1.728150	-.013047	.0011049	60.96666

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.273302	.0035456	.0168025	345.3641	.1276407	.1314021
Stddev	.004983	.0001355	.0003876	.8067	.0007648	.0008682
%RSD	.1522305	3.820548	2.306832	.2335889	.5992035	.6607196
#1	3.273191	.0033911	.0169660	345.4507	.1277715	.1313259
#2	3.268376	.0036020	.0163599	344.5176	.1268190	.1305745
#3	3.278340	.0036438	.0170815	346.1241	.1283318	.1323059

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5549844	186.6325	F 35.38321	61.08851	.2304419	-.010211
Stddev	.0012126	.5285	.06813	.30057	.0022691	.000369
%RSD	.2184847	.2831993	.1925536	.4920215	.9846632	3.613339
#1	.5551251	186.1594	35.42618	60.79989	.2316345	-.010217
#2	.5537076	186.5351	35.30466	61.06588	.2278252	-.010577
#3	.5561204	187.2029	35.41880	61.39975	.2318660	-.009839

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.928708	.1812690	1.377370	8.244354	F 15.97446	.0546362
Stddev	.133602	.0030318	.008471	.068966	.11308	.0032034
%RSD	6.927034	1.672540	.6150265	.8365234	.7078741	5.863212
#1	2.030791	.1841900	1.386120	8.177511	15.95104	.0536731
#2	1.977835	.1781374	1.369209	8.240287	15.87493	.0582107
#3	1.777497	.1814797	1.376782	8.315263	16.09742	.0520248

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4933-05 Acquired: 12/02/2024 23:32:49 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHR5 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0087346	2.148230	5.403109	.1301317	1.080818	.0689864
Stddev	.0005474	.003589	.005152	.0017463	.005124	.0019877
%RSD	6.267198	.1670595	.0953559	1.341956	.4741178	2.881330
#1	.0087827	2.148109	5.408098	.1302706	1.075388	.0667251
#2	.0081647	2.144704	5.403420	.1318045	1.081495	.0697763
#3	.0092564	2.151878	5.397808	.1283201	1.085569	.0704577

Elem	Sr4077
Units	ppm
Avg	.4285033
Stddev	.0005581
%RSD	.1302320
#1	.4283321
#2	.4280509
#3	.4291269

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1137.604	34104.39	6780.096	1010.934	1550.192
Stddev	1.244	19.58	6.420	6.578	5.816
%RSD	.1093312	.0573987	.0946853	.6506935	.3751567
#1	1138.390	34112.08	6774.487	1003.366	1547.532
#2	1138.252	34082.14	6787.098	1015.285	1556.862
#3	1136.170	34118.96	6778.704	1014.150	1546.182

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4933-06 Acquired: 12/02/2024 23:37:12 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHR6 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2221660	-.017924	1.293522	-.015357	.0047827	63.92656
Stddev	.0129248	.005414	.032053	.004909	.0006576	1.04887
%RSD	5.817625	30.20405	2.477979	31.96872	13.75037	1.640735
#1	.2282119	-.015231	1.266505	-.019511	.0054164	62.80197
#2	.2309597	-.014386	1.328939	-.009939	.0041035	64.87820
#3	.2073263	-.024157	1.285122	-.016619	.0048281	64.09953

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.711004	.0048766	.0200957	242.4112	.1182777	.1412896
Stddev	.023423	.0000960	.0007046	3.3818	.0014725	.0035472
%RSD	1.368970	1.967540	3.506104	1.395050	1.244977	2.510587
#1	1.686966	.0047710	.0195331	238.8214	.1199440	.1383137
#2	1.733760	.0049002	.0208860	245.5370	.1177379	.1452149
#3	1.712285	.0049585	.0198681	242.8753	.1171513	.1403402

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5748775	246.2098	19.92726	78.43266	.2311399	-.020437
Stddev	.0055077	4.2612	.27440	1.55520	.0055688	.000428
%RSD	.9580599	1.730699	1.377001	1.982852	2.409260	2.092313
#1	.5687445	241.5550	19.64160	76.68980	.2265264	-.020070
#2	.5794016	249.9183	20.18880	79.67891	.2373258	-.020907
#3	.5764863	247.1560	19.95137	78.92928	.2295673	-.020334

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.665635	.1957679	1.197444	8.976669	F 28.75986	.0687205
Stddev	.090860	.0022317	.001023	.133981	.75569	.0052534
%RSD	3.408561	1.139947	.0854553	1.492547	2.627602	7.644640
#1	2.769088	.1933614	1.198312	8.838505	28.16736	.0628002
#2	2.629030	.1977691	1.197706	9.106034	29.61089	.0728256
#3	2.598788	.1961732	1.196316	8.985467	28.50134	.0705357

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4933-06 Acquired: 12/02/2024 23:37:12 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHR6 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0068163	2.203595	5.424185	.1001711	1.055444	.0664278
Stddev	.0007395	.055224	.065582	.0061262	.017436	.0012553
%RSD	10.84957	2.506074	1.209071	6.115753	1.652007	1.889710
#1	.0069730	2.158817	5.359917	.0981077	1.035314	.0661368
#2	.0060110	2.265301	5.491006	.1070626	1.065177	.0678031
#3	.0074649	2.186668	5.421631	.0953430	1.065840	.0653436

Elem	Sr4077
Units	ppm
Avg	.3609640
Stddev	.0056062
%RSD	1.553110
#1	.3550412
#2	.3661879
#3	.3616630

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1219.775	36851.16	7329.755	1092.086	1539.566
Stddev	16.559	21.90	88.376	3.229	36.130
%RSD	1.357548	.0594360	1.205719	.2957040	2.346756
#1	1232.305	36827.67	7424.041	1090.825	1568.954
#2	1201.002	36871.03	7248.804	1095.756	1499.228
#3	1226.018	36854.77	7316.421	1089.678	1550.517

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4933-07 Acquired: 12/02/2024 23:41:35 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHR7 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0774314	-.013173	1.386468	-.017514	.0083021	83.75448
Stddev	.0068524	.001150	.009790	.010605	.0041755	6.80510
%RSD	8.849597	8.729490	.7061231	60.55086	50.29455	8.125064
#1	.0845792	-.014304	1.375263	-.014683	.0112362	85.20246
#2	.0767963	-.013209	1.393369	-.029246	.0101484	76.34192
#3	.0709187	-.012005	1.390771	-.008611	.0035217	89.71905

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.216727	.0061975	.0162345	453.9047	.1517806	.0934161
Stddev	.097117	.0003520	.0005908	35.6274	.0018117	.0007405
%RSD	7.981833	5.679244	3.639213	7.849098	1.193621	.7927341
#1	1.234979	.0063105	.0159735	460.4673	.1507585	.0929968
#2	1.111779	.0058030	.0169109	415.4522	.1538724	.0942712
#3	1.303423	.0064792	.0158191	485.7945	.1507110	.0929805

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3465773	205.3025	6.380431	134.5041	.2760044	-.009223
Stddev	.0275872	16.7118	.492864	10.8627	.0018973	.001472
%RSD	7.959883	8.140095	7.724619	8.076077	.6874144	15.96022
#1	.3521307	209.2804	6.472151	137.0724	.2738319	-.009831
#2	.3166358	186.9607	5.848150	122.5875	.2773356	-.007544
#3	.3709652	219.6665	6.820992	143.8525	.2768457	-.010293

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.962329	.1929904	1.661498	13.63455	F 10.95194	.1156177
Stddev	.178876	.0147183	.007511	1.21603	.04893	.0144405
%RSD	9.115517	7.626413	.4520396	8.918774	.4467445	12.48987
#1	2.164436	.1969210	1.663554	13.91198	10.92883	.1228990
#2	1.898175	.1767059	1.653173	12.30377	11.00814	.0989861
#3	1.824377	.2053443	1.667766	14.68789	10.91885	.1249681

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4933-07 Acquired: 12/02/2024 23:41:35 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHR7 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0083006	8.192238	6.531753	.0650890	1.115803	.1084998
Stddev	.0006558	.049987	.417255	.0042229	.092230	.0118262
%RSD	7.900140	.6101735	6.388100	6.487798	8.265826	10.89976
#1	.0082571	8.135249	6.612991	.0621557	1.138235	.1111995
#2	.0076676	8.228661	6.079853	.0699290	1.014426	.0955571
#3	.0089770	8.212803	6.902415	.0631825	1.194748	.1187427

Elem	Sr4077
Units	ppm
Avg	.6477785
Stddev	.0517250
%RSD	7.984978
#1	.6577643
#2	.5917887
#3	.6937826

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1049.570	31235.45	6400.638	926.4310	1510.175
Stddev	1.810	12.15	419.272	2.7033	5.509
%RSD	.1724599	.0389118	6.550472	.2917930	.3647605
#1	1048.861	31235.46	6303.486	923.4490	1514.076
#2	1048.222	31223.29	6859.957	928.7211	1503.874
#3	1051.627	31247.60	6038.470	927.1229	1512.575

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4933-08 Acquired: 12/02/2024 23:45:57 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHR8 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0730708	-.014692	1.177075	-.012410	.0077498	80.37743	1.095404
Stddev	.0038971	.002463	.010075	.007528	.0026582	.63765	.008973
%RSD	5.333392	16.76354	.8559001	60.65951	34.30067	.7933216	.8191125
#1	.0775485	-.011888	1.165453	-.009683	.0102987	81.10890	1.105749
#2	.0712198	-.015685	1.183328	-.020921	.0079563	80.08459	1.090726
#3	.0704441	-.016504	1.182444	-.006626	.0049943	79.93880	1.089738

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0061080	.0313450	569.3162	.1421178	.0867450	.2980995	183.0387
Stddev	.0000852	.0003620	4.9344	.0003470	.0013074	.0035383	1.3403
%RSD	1.395605	1.154823	.8667265	.2441880	1.507137	1.186940	.7322481
#1	.0060781	.0309452	574.4921	.1424119	.0865034	.3021597	184.5841
#2	.0062042	.0316505	568.7910	.1417350	.0881563	.2964638	182.3392
#3	.0060417	.0314393	564.6653	.1422066	.0855753	.2956751	182.1929

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.233130	179.2041	.2565300	-.004042	2.052751	.1788226	4.413666
Stddev	.059136	1.4970	.0036007	.000502	.394922	.0047590	.048291
%RSD	.9487296	.8353873	1.403611	12.41055	19.23870	2.661284	1.094117
#1	6.301411	180.9170	.2528072	-.004535	2.046672	.1818003	4.366328
#2	6.198440	178.5497	.2567881	-.004057	2.450678	.1813335	4.411815
#3	6.199540	178.1457	.2599946	-.003533	1.660903	.1733341	4.462856

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	10.05763	8.034980	.0960836	.0071676	8.135622	6.567145	.0357899
Stddev	.23262	.056407	.0043344	.0007264	.051295	.060351	.0020705
%RSD	2.312832	.7020170	4.511073	10.13507	.6305042	.9189879	5.785274
#1	10.32515	7.969908	.0979112	.0077044	8.077868	6.635245	.0378226
#2	9.90299	8.065063	.0992048	.0063410	8.175882	6.520287	.0358634
#3	9.94475	8.069968	.0911347	.0074573	8.153115	6.545903	.0336835

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4933-08 Acquired: 12/02/2024 23:45:57 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHR8 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.9978568	.1053152	.6491659
Stddev	.0102174	.0021731	.0052622
%RSD	1.023930	2.063391	.8106074
#1	1.009636	.1078232	.6552092
#2	.991396	.1039936	.6455975
#3	.992538	.1041288	.6466908

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1016.686	30276.34	6223.924	901.4935	1468.268
Stddev	4.398	171.94	54.218	8.0345	11.365
%RSD	.4326197	.5679179	.8711279	.8912467	.7740663
#1	1021.665	30359.52	6161.647	910.2513	1481.056
#2	1013.330	30390.88	6249.508	899.7658	1459.322
#3	1015.062	30078.62	6260.616	894.4633	1464.424

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4933-09 Acquired: 12/02/2024 23:50:30 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHR9 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0568966	-.018804	.9565611	-.010204	.0080878	117.2809	1.533310
Stddev	.0121973	.009340	.0046904	.009184	.0041554	1.1300	.008399
%RSD	21.43763	49.67097	.4903453	90.00664	51.37852	.9635242	.5477593
#1	.0544539	-.020949	.9511452	-.002856	.0042088	116.1397	1.526616
#2	.0701304	-.008578	.9593066	-.007255	.0075813	118.3994	1.542734
#3	.0461056	-.026886	.9592316	-.020500	.0124731	117.3035	1.530580

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0078352	.0193043	554.3916	.1792535	.1164410	.3338456	238.1070
Stddev	.0000654	.0003792	5.7958	.0012722	.0009169	.0035631	2.7010
%RSD	.8340547	1.964306	1.045439	.7097255	.7874512	1.067297	1.134358
#1	.0078515	.0189869	547.7546	.1794434	.1158762	.3309913	235.3994
#2	.0077633	.0192018	558.4545	.1804201	.1174990	.3378390	240.8013
#3	.0078909	.0197242	556.9657	.1778970	.1159478	.3327064	238.1203

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.049428	165.9654	.3073096	-.010712	2.095790	.2539933	1.808078
Stddev	.037655	1.9421	.0012872	.000354	.217792	.0032283	.001630
%RSD	.6224617	1.170168	.4188485	3.304101	10.39189	1.271031	.0901369
#1	6.006103	163.8895	.3062031	-.010384	2.290914	.2555430	1.806672
#2	6.074277	167.7379	.3087222	-.010665	1.860829	.2561546	1.807698
#3	6.067903	166.2688	.3070034	-.011087	2.135625	.2502823	1.809864

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	10.36049	8.069793	.0829209	.0074526	4.799229	6.875403	.0345263
Stddev	.08189	.009194	.0033100	.0006959	.032705	.053417	.0018381
%RSD	.7904172	.1139318	3.991759	9.337862	.6814644	.7769234	5.323880
#1	10.27112	8.080294	.0865162	.0077487	4.769090	6.814421	.0353339
#2	10.43193	8.063190	.0822465	.0079515	4.834005	6.897883	.0324226
#3	10.37842	8.065896	.0800001	.0066576	4.794591	6.913906	.0358224

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4933-09 Acquired: 12/02/2024 23:50:30 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHR9 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	1.179906	.1628120	.7987546
Stddev	.014048	.0017679	.0061174
%RSD	1.190570	1.085876	.7658669
#1	1.165658	.1610396	.7926570
#2	1.193744	.1645755	.8048916
#3	1.180316	.1628208	.7987153

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1055.206	31407.00	6419.743	936.1028	1466.632
Stddev	.498	73.72	46.711	.0663	3.342
%RSD	.0471588	.2347147	.7276175	.0070778	.2279030
#1	1054.638	31345.44	6473.664	936.0662	1468.366
#2	1055.563	31386.86	6393.946	936.1792	1462.778
#3	1055.418	31488.69	6391.619	936.0628	1468.750

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4933-10 Acquired: 12/02/2024 23:55:02 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHS0 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0842459	-.010920	2.079892	-.012738	.0090145	97.65450	1.808594
Stddev	.0079471	.002288	.001537	.007499	.0036975	.22982	.004746
%RSD	9.433186	20.95301	.0739004	58.87276	41.01701	.2353416	.2624205
#1	.0801609	-.009097	2.078350	-.020062	.0122341	97.86309	1.812083
#2	.0934047	-.013488	2.079900	-.005074	.0098330	97.69228	1.810510
#3	.0791722	-.010176	2.081424	-.013079	.0049763	97.40812	1.803190

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0074304	.0171036	503.7782	.1559517	.0960041	.3917701	218.3996
Stddev	.0000252	.0002153	1.3259	.0004524	.0008674	.0031002	.5357
%RSD	.3385891	1.258649	.2631870	.2900901	.9035486	.7913237	.2452907
#1	.0074158	.0170527	504.4150	.1564679	.0969384	.3900026	218.9055
#2	.0074159	.0173398	504.6655	.1557627	.0958498	.3953498	218.4550
#3	.0074594	.0169183	502.2540	.1556243	.0952242	.3899580	217.8384

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.922927	127.3177	.2656221	-.009060	2.145176	.2190305	1.809748
Stddev	.015037	.4591	.0009911	.000185	.183940	.0052771	.014167
%RSD	.2538774	.3605808	.3731247	2.036788	8.574601	2.409311	.7828061
#1	5.926596	127.8401	.2658324	-.009243	2.159830	.2233253	1.797009
#2	5.935790	127.1343	.2664912	-.008874	1.954347	.2131396	1.825005
#3	5.906396	126.9786	.2645427	-.009062	2.321350	.2206266	1.807231

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.549536	7.324393	.0754893	.0070253	4.569015	6.810152	.0779751
Stddev	.176768	.034134	.0024281	.0009169	.033568	.024481	.0035478
%RSD	2.341448	.4660266	3.216506	13.05162	.7346947	.3594829	4.549851
#1	7.384508	7.363414	.0728315	.0060430	4.602939	6.814201	.0800053
#2	7.736076	7.309686	.0775914	.0078585	4.568293	6.832356	.0738786
#3	7.528023	7.300077	.0760451	.0071746	4.535814	6.783898	.0800414

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4933-10 Acquired: 12/02/2024 23:55:02 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHS0 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	1.223675	.1290703	.7773506
Stddev	.001165	.0014532	.0019720
%RSD	.0952379	1.125925	.2536790
#1	1.224361	.1288535	.7788346
#2	1.224334	.1306197	.7781043
#3	1.222329	.1277376	.7751129

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1050.444	31307.01	6318.104	926.0436	1497.599
Stddev	1.160	15.64	29.983	6.6429	4.385
%RSD	.1104220	.0499678	.4745627	.7173379	.2928107
#1	1049.135	31295.04	6307.882	932.8403	1493.645
#2	1050.856	31301.28	6294.568	919.5661	1496.836
#3	1051.343	31324.71	6351.862	925.7243	1502.315

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4933-11 Acquired: 12/02/2024 23:59:25 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHS1 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1771308	-.010732	3.874329	-.012549	.0113751	72.00713
Stddev	.0034564	.005785	.010912	.002140	.0064049	.03661
%RSD	1.951356	53.90161	.2816480	17.05136	56.30637	.0508369
#1	.1803379	-.005555	3.872315	-.014962	.0082993	71.96626
#2	.1775846	-.016976	3.864565	-.011802	.0187377	72.03690
#3	.1734698	-.009664	3.886108	-.010883	.0070883	72.01822

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.819134	.0079424	.0172371	533.6237	.1298230	.0891809
Stddev	.004419	.0001417	.0000704	1.8274	.0015738	.0007847
%RSD	.2429295	1.784287	.4083478	.3424499	1.212288	.8798746
#1	1.814957	.0077983	.0171826	532.5151	.1294116	.0899561
#2	1.823761	.0079473	.0173166	535.7328	.1284957	.0883871
#3	1.818685	.0080817	.0172122	532.6231	.1315616	.0891994

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5092169	203.7642	7.475355	131.4429	.2532360	-.006337
Stddev	.0048291	.3392	.021015	.2550	.0009401	.000087
%RSD	.9483411	.1664475	.2811283	.1940202	.3712228	1.376736
#1	.5037832	203.8125	7.460183	131.3286	.2521553	-.006432
#2	.5130184	204.0767	7.499342	131.7350	.2538647	-.006261
#3	.5108491	203.4035	7.466539	131.2649	.2536880	-.006317

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.515255	.1898206	2.046368	7.481729	F 10.77402	.1096244
Stddev	.103742	.0084795	.005536	.085370	.03118	.0045104
%RSD	4.124502	4.467102	.2705152	1.141051	.2894019	4.114442
#1	2.534149	.1993445	2.044412	7.483177	10.78068	.1090632
#2	2.608252	.1870265	2.052616	7.395644	10.74005	.1143892
#3	2.403365	.1830907	2.042075	7.566366	10.80133	.1054208

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4933-11 Acquired: 12/02/2024 23:59:25 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHS1 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0071825	6.734388	6.494243	.3164132	1.497098	.0957424
Stddev	.0003941	.007965	.011799	.0022021	.001519	.0015087
%RSD	5.487107	.1182675	.1816843	.6959693	.1014528	1.575810
#1	.0067479	6.725203	6.483314	.3143433	1.498638	.0953321
#2	.0075168	6.738569	6.492661	.3161692	1.497055	.0974138
#3	.0072827	6.739391	6.506753	.3187272	1.495602	.0944812

Elem	Sr4077
Units	ppm
Avg	.7815796
Stddev	.0018484
%RSD	.2364979
#1	.7796431
#2	.7833250
#3	.7817707

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1045.289	31172.93	6306.491	919.1022	1486.980
Stddev	1.660	42.78	12.879	2.9230	1.648
%RSD	.1588279	.1372227	.2042152	.3180302	.1108513
#1	1046.076	31146.72	6314.015	918.1491	1487.605
#2	1046.410	31222.29	6291.620	916.7747	1488.224
#3	1043.382	31149.78	6313.838	922.3828	1485.110

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4933-12 Acquired: 12/03/2024 0:03:48 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHS2 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1266427	-.007616	1.757110	-.009322	.0165883	58.96684	1.201454
Stddev	.0123579	.006270	.002020	.005615	.0035319	.12322	.001106
%RSD	9.758104	82.32119	.1149352	60.23374	21.29189	.2089707	.0920709
#1	.1214573	-.001460	1.754831	-.005241	.0174671	59.02693	1.201530
#2	.1407486	-.013994	1.757822	-.006999	.0195978	59.04850	1.200311
#3	.1177223	-.007395	1.758677	-.015726	.0126999	58.82510	1.202519

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0062127	.0132750	292.8847	.0993990	.0760301	.4826239	190.0749
Stddev	.0001304	.0001314	.0294	.0008459	.0009588	.0035330	.3267
%RSD	2.098126	.9897060	.0100497	.8510372	1.261074	.7320343	.1718642
#1	.0061391	.0132194	292.8945	.1002227	.0750280	.4867028	190.2634
#2	.0063632	.0131805	292.9079	.0994418	.0769387	.4805212	190.2637
#3	.0061359	.0134250	292.8516	.0985324	.0761237	.4806478	189.6977

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.444596	78.89030	.1757839	-.009157	2.206568	.1612992	1.214330
Stddev	.006504	.07712	.0003923	.000333	.286728	.0044114	.006311
%RSD	.1009157	.0977590	.2231869	3.641301	12.99430	2.734930	.5197422
#1	6.441879	78.89151	.1753955	-.009467	2.535907	.1636450	1.207198
#2	6.452017	78.96682	.1757760	-.008805	2.012495	.1640420	1.216597
#3	6.439891	78.81259	.1761801	-.009201	2.071301	.1562105	1.219194

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.285116	7.116505	.0746034	.0056371	5.001591	6.739979	.1493078
Stddev	.037906	.017883	.0033596	.0003905	.041704	.012134	.0010842
%RSD	.7172141	.2512822	4.503297	6.927149	.8338165	.1800279	.7261307
#1	5.327921	7.106049	.0710461	.0052425	4.955182	6.732159	.1480573
#2	5.255798	7.106313	.0777223	.0060233	5.035926	6.753957	.1498823
#3	5.271630	7.137154	.0750418	.0056456	5.013665	6.733821	.1499838

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4933-12 Acquired: 12/03/2024 0:03:48 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHS2 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	1.373069	.0720202	.5464861
Stddev	.004720	.0008454	.0003267
%RSD	.3437816	1.173873	.0597819
#1	1.375776	.0729588	.5463436
#2	1.375813	.0717831	.5468599
#3	1.367619	.0713186	.5462549

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1051.242	31237.35	6220.134	929.9669	1572.567
Stddev	1.624	.68	2.847	3.6758	4.037
%RSD	.1545039	.0021780	.0457760	.3952647	.2566824
#1	1053.098	31237.26	6221.412	934.0382	1576.957
#2	1050.550	31238.07	6216.871	928.9705	1571.729
#3	1050.079	31236.72	6222.118	926.8920	1569.015

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4933-13 Acquired: 12/03/2024 0:08:10 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHS3 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1208153	-.012218	1.976485	-.018361	.0088080	61.50900	1.252797
Stddev	.0096203	.003761	.029019	.005781	.0010003	.16673	.000534
%RSD	7.962858	30.78292	1.468188	31.48365	11.35703	.2710675	.0425989
#1	.1132709	-.010509	1.963617	-.017064	.0085590	61.31660	1.253297
#2	.1175261	-.009615	1.956126	-.024680	.0079558	61.59936	1.252235
#3	.1316488	-.016530	2.009713	-.013339	.0099094	61.61105	1.252859

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0066852	.0119988	510.0106	.0909578	.0724467	.4325764	170.8950
Stddev	.0001613	.0004087	.7334	.0018797	.0006786	.0006865	.6310
%RSD	2.413297	3.406186	.1437996	2.066521	.9366657	.1586960	.3692469
#1	.0065562	.0121240	509.3524	.0928860	.0719932	.4321978	170.1722
#2	.0066332	.0115421	509.8783	.0908566	.0721201	.4333688	171.3359
#3	.0068661	.0123302	510.8012	.0891308	.0732268	.4321625	171.1771

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.525740	96.95036	.1608468	-.004826	2.605476	.1665202	1.219645
Stddev	.010705	.47307	.0013293	.000994	.099307	.0073987	.008486
%RSD	.1640502	.4879489	.8264106	20.59646	3.811474	4.443097	.6957687
#1	6.520671	96.40448	.1613053	-.003867	2.718430	.1725158	1.229422
#2	6.518511	97.20578	.1593490	-.004759	2.566117	.1582518	1.214191
#3	6.538038	97.24082	.1618862	-.005851	2.531882	.1687931	1.215324

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.962155	7.594503	.0838375	.0070994	4.548881	6.304452	.0764471
Stddev	.095410	.099129	.0020954	.0004194	.064747	.024349	.0040299
%RSD	1.370415	1.305277	2.499321	5.907415	1.423360	.3862211	5.271490
#1	6.893964	7.548843	.0825395	.0074150	4.523459	6.301939	.0804562
#2	7.071189	7.526432	.0827182	.0072596	4.500703	6.281456	.0723967
#3	6.921314	7.708234	.0862549	.0066235	4.622480	6.329960	.0764885

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4933-13 Acquired: 12/03/2024 0:08:10 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHS3 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	1.318190	.0793157	.8073042
Stddev	.004366	.0007895	.0019266
%RSD	.3311937	.9953309	.2386433
#1	1.313156	.0786654	.8052374
#2	1.320479	.0801941	.8076249
#3	1.320936	.0790875	.8090503

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1035.006	30832.08	6208.497	918.4796	1517.563
Stddev	6.862	310.91	1.989	8.5157	17.460
%RSD	.6629977	1.008389	.0320379	.9271561	1.150521
#1	1040.214	30509.22	6207.302	908.8182	1523.977
#2	1037.573	30857.55	6207.395	921.7252	1530.909
#3	1027.230	31129.46	6210.793	924.8952	1497.804

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4933-15 Acquired: 12/03/2024 0:12:33 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHW9 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0980774	-.006602	3.245259	-.007964	.0066737	66.96678	1.101477
Stddev	.0119487	.002421	.007631	.003873	.0014479	.49087	.008231
%RSD	12.18296	36.66839	.2351299	48.62731	21.69521	.7330106	.7472658
#1	.1038341	-.003830	3.242699	-.007945	.0083046	66.86828	1.104953
#2	.1060580	-.008300	3.239237	-.004101	.0055398	66.53263	1.092078
#3	.0843401	-.007676	3.253840	-.011846	.0061767	67.49944	1.107400

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0053176	.0129719	202.1589	.1341046	.0921699	.4556707	175.6408
Stddev	.0001969	.0003564	1.0047	.0093379	.0007875	.0048173	1.3289
%RSD	3.702724	2.747632	.4970073	6.963152	.8543555	1.057198	.7566113
#1	.0051422	.0127394	202.3814	.1292196	.0914884	.4561730	175.2396
#2	.0052800	.0127942	201.0616	.1282224	.0919894	.4506219	174.5588
#3	.0055306	.0133823	203.0338	.1448717	.0930320	.4602172	177.1241

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.828226	48.34897	.1822969	-.010930	1.734908	.1754428	1.257912
Stddev	.034516	.35279	.0006690	.003397	.363651	.0020093	.070490
%RSD	.3511930	.7296814	.3670083	31.07817	20.96084	1.145245	5.603745
#1	9.839593	48.09302	.1830570	-.012988	1.578211	.1746701	1.210521
#2	9.789461	48.20249	.1817974	-.012794	2.150639	.1777237	1.224297
#3	9.855626	48.75141	.1820363	-.007009	1.475875	.1739346	1.338917

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.085005	9.295511	.0531980	.0018142	2.481867	5.847082	.1188284
Stddev	.062033	.051884	.0017471	.0001691	.011223	.060148	.0024647
%RSD	.8755487	.5581633	3.284155	9.322247	.4522038	1.028682	2.074184
#1	7.034291	9.264952	.0512624	.0016532	2.472419	5.784323	.1215611
#2	7.066554	9.266164	.0546582	.0017989	2.478909	5.852698	.1167735
#3	7.154169	9.355418	.0536734	.0019904	2.494273	5.904225	.1181507

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4933-15 Acquired: 12/03/2024 0:12:33 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHW9 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	1.188610	.0827353	.3169726
Stddev	.009088	.0011415	.0018815
%RSD	.7646251	1.379751	.5935800
#1	1.188712	.0816435	.3173699
#2	1.179471	.0826418	.3149242
#3	1.197647	.0839208	.3186237

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1139.088	33008.95	6703.206	975.6037	1618.488
Stddev	3.571	1606.31	9.428	45.9995	6.172
%RSD	.3134633	4.866288	.1406421	4.714973	.3813713
#1	1137.324	33982.70	6710.990	1005.338	1618.798
#2	1143.198	33889.22	6692.724	998.853	1624.500
#3	1136.743	31154.93	6705.905	922.620	1612.167

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4933-16 Acquired: 12/03/2024 0:16:56 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHX0 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0777696	-.005727	3.057395	.0051319	.0182134	66.07604
Stddev	.0049438	.010187	.025922	.0029869	.0011427	.19677
%RSD	6.356960	177.8827	.8478423	58.20239	6.273714	.2977933
#1	.0825095	.000207	3.052024	.0061415	.0195257	66.28530
#2	.0726444	-.017490	3.085582	.0074831	.0174389	65.89475
#3	.0781548	.000102	3.034579	.0017710	.0176755	66.04807

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.318293	.0046204	.0221179	166.2322	.1690801	.0803268
Stddev	.010643	.0000678	.0000505	.6930	.0044602	.0016666
%RSD	.4590711	1.466699	.2281333	.4169162	2.637925	2.074757
#1	2.327020	.0045665	.0220740	166.8299	.1686465	.0793242
#2	2.306437	.0046964	.0221730	165.4725	.1648525	.0822506
#3	2.321423	.0045982	.0221066	166.3941	.1737413	.0794056

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4903056	152.4782	8.314462	39.90196	.1996481	-.007093
Stddev	.0013454	.3411	.045158	.14252	.0014976	.000545
%RSD	.2743999	.2237051	.5431205	.3571879	.7500997	7.687067
#1	.4908755	152.8721	8.359872	39.86787	.1991701	-.006916
#2	.4887690	152.2816	8.269561	39.77957	.2013263	-.007705
#3	.4912722	152.2809	8.313954	40.05844	.1984479	-.006659

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.642060	.1824051	3.119481	10.50470	F 18.99908	.0743656
Stddev	.125766	.0011534	.047720	.07175	.12664	.0030953
%RSD	7.659028	.6323213	1.529747	.6830136	.6665524	4.162222
#1	1.739791	.1829271	3.139008	10.49785	18.96486	.0757024
#2	1.686218	.1810830	3.065094	10.43662	19.13932	.0765678
#3	1.500170	.1832052	3.154340	10.57962	18.89307	.0708266

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4933-16 Acquired: 12/03/2024 0:16:56 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHX0 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0131337	5.272714	6.632695	.1569389	1.118941	.0687476
Stddev	.0003490	.032441	.060820	.0019257	.005342	.0005879
%RSD	2.656941	.6152589	.9169680	1.227017	.4774032	.8552199
#1	.0128663	5.252510	6.661428	.1551664	1.124674	.0681643
#2	.0135285	5.310134	6.562832	.1589878	1.114103	.0693401
#3	.0130064	5.255499	6.673825	.1566624	1.118046	.0687386

Elem	Sr4077
Units	ppm
Avg	.3526319
Stddev	.0012015
%RSD	.3407133
#1	.3538057
#2	.3514046
#3	.3526855

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1125.376	33551.65	6570.460	991.8517	1645.650
Stddev	.950	388.66	12.960	10.3883	10.252
%RSD	.0843803	1.158389	.1972469	1.047361	.6229669
#1	1126.351	33349.18	6555.914	985.1665	1649.969
#2	1124.454	33999.74	6580.780	1003.820	1633.945
#3	1125.322	33306.02	6574.684	986.569	1653.035

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4933-17 Acquired: 12/03/2024 0:21:18 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHX1 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0726965	-.007812	2.933938	-.004429	.0092523	62.90189
Stddev	.0044248	.001435	.004255	.005921	.0017605	.31052
%RSD	6.086645	18.36314	.1450118	133.7057	19.02813	.4936596
#1	.0768164	-.008958	2.930066	-.011135	.0072543	62.74173
#2	.0680196	-.008276	2.933254	.000079	.0099265	62.70414
#3	.0732535	-.006203	2.938493	-.002230	.0105760	63.25979

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.202710	.0043562	.0227951	179.4720	.1485274	.0715873
Stddev	.004090	.0001536	.0001574	.1914	.0024660	.0003431
%RSD	.1856821	3.526834	.6905719	.1066227	1.660266	.4792767
#1	2.198095	.0044241	.0228254	179.4338	.1494012	.0713221
#2	2.204147	.0041804	.0229353	179.3026	.1504374	.0719748
#3	2.205888	.0044643	.0226248	179.6796	.1457435	.0714652

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4857711	131.8845	7.202456	34.40371	.1843061	-.005300
Stddev	.0020679	.6681	.012729	.06917	.0005311	.000784
%RSD	.4256884	.5065598	.1767374	.2010440	.2881519	14.79165
#1	.4875910	131.8359	7.203085	34.48042	.1837013	-.005425
#2	.4835225	131.2421	7.189424	34.34609	.1846964	-.004461
#3	.4861997	132.5756	7.214860	34.38462	.1845207	-.006014

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.410972	.1677796	3.354271	9.158986	F 38.73461	.0618461
Stddev	.062282	.0087149	.042550	.031372	.04625	.0012579
%RSD	2.583292	5.194272	1.268526	.3425312	.1193916	2.033873
#1	2.449367	.1592959	3.369558	9.177312	38.71533	.0621756
#2	2.339110	.1673341	3.387066	9.122761	38.78738	.0629064
#3	2.444438	.1767087	3.306190	9.176884	38.70113	.0604562

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4933-17 Acquired: 12/03/2024 0:21:18 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHX1 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0077055	4.069943	6.903615	.1430787	1.080061	.0612241
Stddev	.0007039	.018172	.050709	.0013723	.004398	.0007627
%RSD	9.134481	.4464944	.7345312	.9591255	.4072359	1.245805
#1	.0083935	4.067575	6.933528	.1428510	1.079389	.0608036
#2	.0077361	4.089183	6.845066	.1445506	1.076038	.0607642
#3	.0069868	4.053071	6.932252	.1418344	1.084757	.0621045

Elem	Sr4077
Units	ppm
Avg	.3316178
Stddev	.0014372
%RSD	.4333987
#1	.3315707
#2	.3302047
#3	.3330780

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1103.612	33090.89	6488.360	974.0632	1640.083
Stddev	.690	349.62	39.869	11.6095	2.285
%RSD	.0625539	1.056537	.6144682	1.191861	.1393420
#1	1102.997	32944.75	6480.754	971.1731	1642.194
#2	1103.480	32838.06	6531.484	964.1718	1637.656
#3	1104.359	33489.87	6452.842	986.8447	1640.398

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4933-18 Acquired: 12/03/2024 0:25:47 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHX2 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1099833	k -.011306	3.685805	-.000498	k .0083742	69.09031
Stddev	.0116803	.001299	.002508	.003844	.0037127	.03876
%RSD	10.62010	11.48618	.0680462	772.6688	44.33521	.0561044
#1	.1138284	-.010068	3.682971	.003690	.0077801	69.06307
#2	.1192564	k -.012657	3.687739	-.003866	k .0123482	69.13469
#3	.0968652	-.011193	3.686704	-.001317	.0049943	69.07317

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.757798	.0048233	.0264380	172.1086	s .1775600	.0830211
Stddev	.007560	.0001836	.0000752	.3212	.0117489	.0008247
%RSD	.2741290	3.806530	.2845515	.1866313	6.616867	.9933041
#1	2.760216	.0050309	.0264706	172.4075	.1656890	.0839462
#2	2.749325	.0047566	.0263520	171.7689	s .1891829	.0823630
#3	2.763853	.0046823	.0264915	172.1493	.1778080	.0827542

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.361937	158.6039	8.690333	37.67656	.1906778	s -.000866
Stddev	.002570	.3738	.008825	.04165	.0003690	.006379
%RSD	.1886949	.2356880	.1015495	.1105380	.1935040	736.3242
#1	1.363455	158.3341	8.690513	37.67959	.1910967	-.006409
#2	1.358969	159.0306	8.681418	37.63348	.1905357	s .006106
#3	1.363385	158.4471	8.699066	37.71661	.1904010	-.002295

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.431578	k .1914886	3.779949	9.640482	F 18.44108	k .0679682
Stddev	.347123	.0045482	.351127	.034285	.06921	.0029198
%RSD	24.24756	2.375200	9.289195	.3556330	.3753216	4.295820
#1	1.043793	.1874977	3.861283	9.667233	18.40372	.0671881
#2	1.537657	k .1964405	3.395292	9.652380	18.39858	k .0711988
#3	1.713284	.1905275	4.083271	9.601834	18.52095	.0655177

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4933-18 Acquired: 12/03/2024 0:25:47 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHX2 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0077598	3.501917	6.369918	.2128028	1.056772	.0674177
Stddev	.0001703	.017100	.102666	.0035789	.001185	.0016284
%RSD	2.194711	.4883051	1.611734	1.681808	.1121323	2.415442
#1	.0075649	3.508264	6.430158	.2137174	1.056788	.0660554
#2	.0078346	3.482551	6.251375	.2088553	1.055579	.0692213
#3	.0078799	3.514937	6.428221	.2158356	1.057949	.0669763

Elem	Sr4077
Units	ppm
Avg	.3539369
Stddev	.0008473
%RSD	.2393865
#1	.3529740
#2	.3545683
#3	.3542684

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1125.348	^ *****	6602.539	1016.181	1645.207
Stddev	1.932	-----	23.104	80.228	1.485
%RSD	.1716389	-----	.3499296	7.895026	.0902744
#1	1123.120	33514.61	6583.603	995.354	1643.492
#2	1126.562	^ -----	6595.732	1104.769	1646.050
#3	1126.360	31768.10	6628.282	948.421	1646.079

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4933-19 Acquired: 12/03/2024 0:30:09 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHX3 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1386760	-.006639	4.699990	-.009244	.0075082	85.03303
Stddev	.0061492	.000627	.118168	.008322	.0025276	.29559
%RSD	4.434240	9.450460	2.514209	90.02774	33.66487	.3476202
#1	.1356248	-.006588	4.712488	-.007827	.0054601	85.35547
#2	.1346490	-.006039	4.811413	-.001721	.0103331	84.77486
#3	.1457541	-.007291	4.576071	-.018184	.0067315	84.96876

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.050601	.0063632	.0260338	192.8019	.1864080	.1136812
Stddev	.004083	.0000458	.0006240	.1455	.0035989	.0032602
%RSD	.1338585	.7190025	2.397048	.0754578	1.930673	2.867829
#1	3.052488	.0063117	.0262250	192.6985	.1834027	.1132382
#2	3.045916	.0063789	.0265398	192.7388	.1903963	.1171402
#3	3.053400	.0063991	.0253365	192.9682	.1854252	.1106652

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.017820	195.1284	12.55775	41.86190	.2302669	-.011674
Stddev	.001634	.5645	.02043	.07005	.0058619	.000355
%RSD	.1604955	.2892881	.1627193	.1673473	2.545692	3.041086
#1	1.019614	195.7645	12.53611	41.92424	.2314740	-.011836
#2	1.017429	194.9336	12.57671	41.87536	.2354313	-.011267
#3	1.016418	194.6871	12.56042	41.78609	.2238954	-.011919

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.991586	.2340877	4.378762	13.25499	F 22.97868	.0905176
Stddev	.150770	.0053898	.038715	.02641	.55807	.0026107
%RSD	7.570326	2.302455	.8841629	.1992802	2.428657	2.884246
#1	2.128303	.2365878	4.349374	13.28453	23.14034	.0908809
#2	1.829885	.2279019	4.422630	13.23365	23.43809	.0877442
#3	2.016570	.2377735	4.364281	13.24678	22.35763	.0929277

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4933-19 Acquired: 12/03/2024 0:30:09 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHX3 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0093473	4.267513	5.953349	.4126160	1.171432	.0911827
Stddev	.0007144	.105971	.021381	.0104573	.003016	.0009123
%RSD	7.643283	2.483192	.3591401	2.534396	.2574507	1.000543
#1	.0091694	4.274071	5.962809	.4147466	1.174689	.0906452
#2	.0101339	4.370053	5.968369	.4218440	1.168736	.0922361
#3	.0087386	4.158416	5.928870	.4012575	1.170870	.0906668

Elem	Sr4077
Units	ppm
Avg	.4320826
Stddev	.0003634
%RSD	.0841093
#1	.4323531
#2	.4322252
#3	.4316695

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1203.858	35414.52	7049.549	1051.025	1638.398
Stddev	16.193	278.57	18.055	6.224	32.740
%RSD	1.345078	.7865916	.2561157	.5922276	1.998317
#1	1199.500	35542.27	7029.408	1054.722	1633.917
#2	1190.290	35094.99	7054.956	1043.839	1608.129
#3	1221.784	35606.30	7064.283	1054.515	1673.148

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4912-01 Acquired: 12/03/2024 0:34:30 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHJ1 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0346716	-.004134	1.025206	-.001747	.0045559	42.36156	.6874732
Stddev	.0061006	.005591	.016374	.007808	.0017106	.50218	.0079054
%RSD	17.59531	135.2637	1.597096	446.8268	37.54740	1.185453	1.149927
#1	.0347500	-.005074	1.006846	.006058	.0064344	41.97263	.6824487
#2	.0285322	-.009194	1.030481	-.001742	.0041453	42.92849	.6965856
#3	.0407325	.001868	1.038293	-.009558	.0030879	42.18355	.6833852

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0024481	.0082094	187.6277	.0915925	.0515497	.3457815	112.6351
Stddev	.0000711	.0003050	1.4886	.0007622	.0016402	.0042700	1.1787
%RSD	2.905394	3.715657	.7933586	.8321197	3.181715	1.234874	1.046447
#1	.0024559	.0078710	186.6564	.0907155	.0497225	.3472970	111.5169
#2	.0025150	.0082941	189.3415	.0919681	.0528947	.3490869	113.8662
#3	.0023734	.0084631	186.8853	.0920939	.0520318	.3409605	112.5223

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.884063	48.71117	.1544865	-.008323	1.726292	.1198263	1.798031
Stddev	.038331	.46340	.0028010	.000535	.126078	.0034073	.013685
%RSD	.7848125	.9513186	1.813070	6.430379	7.303391	2.843499	.7611236
#1	4.859294	48.22244	.1513115	-.008941	1.621485	.1162793	1.786353
#2	4.928215	49.14421	.1566079	-.007995	1.691190	.1201256	1.813090
#3	4.864681	48.76685	.1555400	-.008033	1.866201	.1230740	1.794649

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.148298	9.232324	.0400696	.0035020	3.599518	5.621620	.0316174
Stddev	.154339	.161324	.0019111	.0007254	.039814	.027331	.0002850
%RSD	2.997866	1.747380	4.769374	20.71481	1.106089	.4861837	.9012314
#1	5.030519	9.046044	.0409089	.0042710	3.555106	5.617084	.0314946
#2	5.323018	9.326010	.0414175	.0034052	3.632011	5.650935	.0314145
#3	5.091358	9.324917	.0378825	.0028299	3.611438	5.596840	.0319432

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4912-01 Acquired: 12/03/2024 0:34:30 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHJ1 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	1.117833	.0433227	.2751807
Stddev	.012816	.0009900	.0024858
%RSD	1.146493	2.285077	.9033473
#1	1.105770	.0443313	.2731662
#2	1.131288	.0423526	.2779587
#3	1.116440	.0432843	.2744171

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1095.110	32534.71	6367.362	968.1834	1650.605
Stddev	12.423	302.55	23.445	7.4117	26.325
%RSD	1.134407	.9299383	.3682128	.7655232	1.594876
#1	1109.105	32846.09	6369.438	974.4903	1681.002
#2	1090.838	32241.83	6342.948	960.0199	1635.187
#3	1085.386	32516.20	6389.700	970.0399	1635.627

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4912-02 Acquired: 12/03/2024 0:38:53 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHJ2 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0397504	-.004277	.8707902	-.004922	.0037027	46.11721
Stddev	.0107723	.004437	.0123433	.004812	.0009903	.15486
%RSD	27.09989	103.7257	1.417486	97.76590	26.74542	.3357889
#1	.0356186	-.007683	.8824312	-.006650	.0035617	46.22774
#2	.0519770	.000740	.8720916	-.008633	.0027905	45.94022
#3	.0316556	-.005889	.8578477	.000515	.0047560	46.18368

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7139891	.0025473	.0086910	216.6764	.0929315	.0569645
Stddev	.0011218	.0001382	.0001218	.0491	.0011673	.0005820
%RSD	.1571193	5.425543	1.401398	.0226380	1.256039	1.021769
#1	.7148266	.0024114	.0087401	216.6739	.0932307	.0576364
#2	.7127145	.0026877	.0087806	216.6286	.0939201	.0566426
#3	.7144260	.0025427	.0085524	216.7266	.0916438	.0566146

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2872699	112.2652	5.147501	50.17250	.1512738	-.008284
Stddev	.0005274	.2353	.004333	.12839	.0024336	.000218
%RSD	.1835958	.2096035	.0841733	.2558895	1.608762	2.634809
#1	.2874602	112.4268	5.152306	50.28932	.1536482	-.008032
#2	.2866738	111.9952	5.143890	50.03504	.1513883	-.008410
#3	.2876758	112.3735	5.146307	50.19315	.1487850	-.008409

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.617430	.1300425	1.455727	4.483266	F 10.07753	.0341035
Stddev	.298028	.0035138	.001428	.113141	.17948	.0027803
%RSD	18.42603	2.702032	.0980795	2.523622	1.780972	8.152494
#1	1.940587	.1334946	1.456287	4.586291	10.27315	.0319422
#2	1.353391	.1301628	1.454104	4.362182	10.03901	.0372400
#3	1.558313	.1264701	1.456791	4.501325	9.92045	.0331282

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4912-02 Acquired: 12/03/2024 0:38:53 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHJ2 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0019173	2.547536	5.689489	.0319734	1.086484	.0507353
Stddev	.0005588	.048966	.007439	.0014229	.004704	.0017425
%RSD	29.14533	1.922095	.1307413	4.450150	.4329307	3.434582
#1	.0024565	2.601527	5.691454	.0309656	1.084742	.0491080
#2	.0019547	2.535080	5.681266	.0336010	1.082899	.0505239
#3	.0013407	2.506001	5.695748	.0313535	1.091810	.0525738

Elem	Sr4077
Units	ppm
Avg	.3341650
Stddev	.0009311
%RSD	.2786363
#1	.3352391
#2	.3335881
#3	.3336677

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1095.459	32812.63	6468.464	976.3710	1612.477
Stddev	8.861	134.66	14.569	1.9453	21.277
%RSD	.8088588	.4104022	.2252360	.1992426	1.319512
#1	1085.240	32681.06	6451.650	976.0750	1589.847
#2	1100.125	32806.64	6476.387	974.5906	1615.509
#3	1101.012	32950.19	6477.354	978.4474	1632.075

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: CCV076 Acquired: 12/03/2024 0:43:17 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV076 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.302503	5.109968	24.42609	4.916735	4.685676	393.3651
Stddev	.006845	.014674	.07395	.019152	.021364	4.9921
%RSD	.1290950	.2871689	.3027500	.3895338	.4559469	1.269065
#1	5.299227	5.123165	24.50525	4.937772	4.709062	395.9309
#2	5.297911	5.094165	24.41425	4.912125	4.667182	396.5525
#3	5.310371	5.112573	24.35878	4.900309	4.680784	387.6120

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.774930	.5167942	2.587987	396.8398	15.45162	2.463326
Stddev	.062457	.0016088	.007057	2.2811	.09565	.005520
%RSD	.6389504	.3113059	.2727019	.5748165	.6189982	.2240669
#1	9.783036	.5186507	2.596110	397.8772	15.56110	2.469320
#2	9.832939	.5159232	2.583361	398.4179	15.38428	2.462202
#3	9.708816	.5158087	2.584490	394.2244	15.40948	2.458454

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	14.63042	402.0204	14.42555	415.7420	2.431201	1.257277
Stddev	.09467	2.2643	.09780	2.1328	.007270	.010165
%RSD	.6470666	.5632356	.6779924	.5130198	.2990222	.8084977
#1	14.67485	403.9382	14.47839	417.5055	2.437269	1.268930
#2	14.69470	402.6005	14.48557	416.3490	2.433191	1.250233
#3	14.52171	399.5224	14.31269	413.3714	2.423144	1.252668

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	398.5150	2.484617	14.44309	150.1329	4.994894	F 4.436011
Stddev	2.3141	.015674	.21168	.8306	.026026	.014870
%RSD	.5806931	.6308565	1.465581	.5532132	.5210520	.3352018
#1	399.7065	2.488640	14.68685	150.3212	5.023105	4.450197
#2	399.9905	2.497888	14.30567	150.8533	4.989756	4.437296
#3	395.8478	2.467324	14.33675	149.2244	4.971820	4.420541

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: CCV076 Acquired: 12/03/2024 0:43:17 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV076 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.803364	4.934142	F 3.455857	4.950049	4.929488	4.780103
Stddev	.017160	.011813	.019832	.009536	.025277	.028288
%RSD	.3572479	.2394230	.5738652	.1926390	.5127809	.5917779
#1	4.823167	4.946307	3.472877	4.960982	4.946494	4.783270
#2	4.792871	4.922714	3.460615	4.943449	4.941529	4.806674
#3	4.794055	4.933405	3.434079	4.945716	4.900442	4.750366

Elem	Sr4077
Units	ppm
Avg	4.871384
Stddev	.010232
%RSD	.2100394
#1	4.882657
#2	4.862685
#3	4.868811

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	827.3836	26069.50	5476.604	680.0933	1366.449
Stddev	2.3597	158.54	20.419	9.5383	2.497
%RSD	.2851954	.6081261	.3728343	1.402495	.1827383
#1	824.7244	25888.14	5459.321	669.1191	1364.073
#2	828.1985	26181.72	5471.357	686.3891	1366.221
#3	829.2277	26138.65	5499.135	684.7718	1369.051

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: CCB076 Acquired: 12/03/2024 0:47:46 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB076 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0039466	.0021075	-.002407	.0020662	.0028006	.0144428	.0016456
Stddev	.0052872	.0031429	.001923	.0037778	.0008373	.0069358	.0008904
%RSD	133.9689	149.1325	79.89741	182.8397	29.89803	48.02207	54.11039
#1	.0084857	.0053667	-.000197	.0008529	.0019662	.0210938	.0014592
#2	.0052129	-.000904	-.003703	-.000956	.0027948	.0072537	.0026144
#3	-.001859	.001860	-.003321	.006302	.0036408	.0149810	.0008631

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000321	-.000030	.0187564	.0017412	-.000086	-.000765	.0220249
Stddev	.0001376	.000197	.0096539	.0004711	.000283	.001424	.0143159
%RSD	429.0939	647.5600	51.47009	27.05421	328.5833	186.1856	64.99887
#1	-.000097	.000185	.0190287	.0014021	-.000400	-.002162	.0321797
#2	.000016	-.000201	.0282713	.0022791	.000148	.000685	.0282438
#3	.000177	-.000076	.0089692	.0015425	-.000006	-.000819	.0056512

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0012040	-.021727	-.000119	.0010895	.1324171	.0032229	.0004833
Stddev	.0003110	.054068	.000362	.0002914	.0428860	.0011155	.0001838
%RSD	25.82964	248.8493	304.8454	26.74513	32.38706	34.61271	38.02385
#1	.0015631	-.084122	-.000517	.0010236	.1423928	.0038767	.0002724
#2	.0010295	.011342	.000190	.0014081	.0854224	.0038571	.0005680
#3	.0010196	.007599	-.000030	.0008367	.1694361	.0019348	.0006094

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.620960	-.000751	-.001301	-.000206	.0038476	-.000500	-.000487
Stddev	.168649	.002003	.001589	.000359	.0073218	.000165	.001006
%RSD	27.15939	266.7842	122.1886	174.6661	190.2941	32.95622	206.5335
#1	-.787050	.000218	-.000907	-.000616	.0068081	-.000454	-.001438
#2	-.625966	.000584	.000055	-.000054	.0092256	-.000682	.000566
#3	-.449864	-.003055	-.003049	.000053	-.004491	-.000362	-.000590

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: CCB076 Acquired: 12/03/2024 0:47:46 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB076 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0007102	-.011577	.0002689
Stddev	.0012032	.000775	.0000724
%RSD	169.4323	6.697812	26.94781
#1	-.000399	-.011899	.0002584
#2	.001989	-.010692	.0002022
#3	.000540	-.012140	.0003460

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1025.007	29927.62	5650.244	901.3272	1902.416
Stddev	2.412	70.32	47.743	1.9571	3.390
%RSD	.2353201	.2349779	.8449751	.2171369	.1782075
#1	1026.697	29875.23	5695.564	899.1613	1905.110
#2	1026.078	29900.07	5600.400	902.9687	1903.527
#3	1022.245	30007.54	5654.768	901.8517	1898.609

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4912-03 Acquired: 12/03/2024 0:52:18 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHJ3 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1328650	-.006685	1.121557	-.001613	.0051209	43.85088	.9502955
Stddev	.0114616	.007911	.004484	.006552	.0023617	2.06623	.0502092
%RSD	8.626499	118.3470	.3997594	406.1242	46.11824	4.711942	5.283531
#1	.1459914	-.011861	1.126566	-.009113	.0078257	46.23673	1.008153
#2	.1248386	-.010616	1.120187	.001274	.0040691	42.66866	.924583
#3	.1277650	.002422	1.117919	.003000	.0034679	42.64726	.918151

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0026050	.0106212	469.3742	.0879998	.0754004	.2485012	136.0314
Stddev	.0001704	.0004337	23.9504	.0012920	.0005007	.0078403	5.9249
%RSD	6.539721	4.082882	5.102626	1.468131	.6641046	3.155042	4.355555
#1	.0024092	.0101304	496.9608	.0865214	.0748904	.2574913	142.8706
#2	.0026867	.0109526	457.2713	.0885659	.0758914	.2449304	132.4556
#3	.0027193	.0107806	453.8906	.0889120	.0754193	.2430819	132.7682

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.573495	185.0029	.1639765	-.002933	2.050321	.1229992	.9770610
Stddev	.388214	7.8800	.0011804	.000412	.327414	.0095345	.0070649
%RSD	5.125956	4.259410	.7198648	14.05509	15.96894	7.751651	.7230810
#1	8.019061	194.1017	.1627638	-.003118	2.410553	.1324957	.9698679
#2	7.393301	180.3922	.1640441	-.003220	1.969577	.1230747	.9773248
#3	7.308125	180.5149	.1651217	-.002460	1.770832	.1134272	.9839904

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.038080	8.695050	.0472203	.0012499	25.66791	6.162901	.0321035
Stddev	.477177	.023349	.0095058	.0003450	.03196	.237085	.0021847
%RSD	9.471410	.2685367	20.13084	27.59740	.1244980	3.846976	6.805071
#1	5.582318	8.670684	.0575847	.0012126	25.70176	6.435992	.0319348
#2	4.840476	8.697237	.0389083	.0009252	25.63827	6.042958	.0300081
#3	4.691447	8.717229	.0451678	.0016120	25.66371	6.009754	.0343676

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4912-03 Acquired: 12/03/2024 0:52:18 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHJ3 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	1.002243	.0512907	.3818823
Stddev	.049751	.0043652	.0189929
%RSD	4.964008	8.510705	4.973504
#1	1.059690	.0563164	.4037996
#2	.973852	.0484435	.3715991
#3	.973187	.0491121	.3702483

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1040.200	30975.27	6088.761	913.8158	1510.510
Stddev	2.119	27.83	223.011	4.4699	2.180
%RSD	.2036718	.0898415	3.662666	.4891449	.1443334
#1	1039.211	30975.99	5831.266	918.4413	1509.038
#2	1042.632	31002.74	6214.987	913.4864	1513.015
#3	1038.757	30947.09	6220.029	909.5198	1509.478

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4912-07 Acquired: 12/03/2024 0:56:39 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHJ5 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1303589	-.005611	3.562952	-.005857	.0051999	70.36103
Stddev	.0033948	.007373	.013786	.009046	.0032978	2.26632
%RSD	2.604161	131.4108	.3869206	154.4296	63.42092	3.220991
#1	.1266170	.001699	3.562630	-.016150	.0067515	72.49729
#2	.1312185	-.013046	3.549329	-.002251	.0014125	67.98389
#3	.1332412	-.005486	3.576895	.000828	.0074357	70.60192

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.300270	.0048756	.0182943	150.5925	.1536479	.0894073
Stddev	.076840	.0001782	.0001770	5.0507	.0038287	.0002243
%RSD	3.340464	3.655590	.9677536	3.353882	2.491844	.2508690
#1	2.373773	.0050637	.0181117	155.3738	.1579561	.0891509
#2	2.220480	.0047092	.0183062	145.3098	.1523528	.0895039
#3	2.306557	.0048537	.0184652	151.0938	.1506348	.0895670

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4934777	176.2050	13.97133	24.03692	.1646294	-.010582
Stddev	.0186046	5.6547	.46027	.83528	.0002746	.001195
%RSD	3.770098	3.209141	3.294360	3.475006	.1668010	11.29338
#1	.5100980	181.5634	14.39754	24.75145	.1646850	-.009653
#2	.4733797	170.2946	13.48326	23.11860	.1648719	-.010163
#3	.4969554	176.7568	14.03318	24.24071	.1643312	-.011930

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.968465	.1877404	1.984857	7.476966	F 14.47158	.0746446
Stddev	.256774	.0089467	.037635	.317070	.04399	.0054140
%RSD	13.04436	4.765446	1.896105	4.240623	.3039688	7.253010
#1	1.729079	.1939670	2.026787	7.721788	14.49046	.0783135
#2	1.936654	.1774881	1.973782	7.118801	14.42130	.0684266
#3	2.239662	.1917661	1.954002	7.590310	14.50298	.0771937

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4912-07 Acquired: 12/03/2024 0:56:39 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHJ5 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0037014	2.267075	5.336820	.2894811	1.235819	.0651446
Stddev	.0005044	.013226	.166831	.0036726	.040484	.0034908
%RSD	13.62687	.5833934	3.126036	1.268665	3.275908	5.358597
#1	.0035451	2.267959	5.507010	.2899642	1.274141	.0681627
#2	.0032937	2.279837	5.173565	.2855909	1.193473	.0613216
#3	.0042655	2.253429	5.329885	.2928882	1.239844	.0659494

Elem	Sr4077
Units	ppm
Avg	.4788400
Stddev	.0155956
%RSD	3.256944
#1	.4935441
#2	.4624844
#3	.4804915

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1144.006	33786.30	6816.442	1003.318	1657.744
Stddev	.342	664.45	173.372	15.504	3.573
%RSD	.0299164	1.966618	2.543444	1.545302	.2155227
#1	1144.179	33080.23	6648.407	987.084	1653.620
#2	1143.611	33879.34	6994.700	1004.898	1659.750
#3	1144.227	34399.32	6806.220	1017.971	1659.864

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4912-08 Acquired: 12/03/2024 1:01:02 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHJ6 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1109665	-.006960	2.609248	-.013967	.0026126	73.22200
Stddev	.0038632	.004013	.093211	.008317	.0013351	2.16266
%RSD	3.481396	57.65501	3.572342	59.54981	51.10233	2.953572
#1	.1120175	-.005200	2.704929	-.021654	.0028418	74.60288
#2	.1066866	-.004128	2.518720	-.005138	.0011777	74.33351
#3	.1141955	-.011552	2.604094	-.015108	.0038182	70.72962

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.728080	.0051598	.0211485	261.9147	.1340864	.1060992
Stddev	.052864	.0000697	.0012145	7.5258	.0007483	.0052240
%RSD	3.059088	1.349998	5.742583	2.873379	.5580514	4.923694
#1	1.750213	.0051916	.0223479	265.2151	.1348855	.1115001
#2	1.766280	.0052078	.0199195	267.2264	.1339712	.1010722
#3	1.667748	.0050799	.0211780	253.3026	.1334024	.1057253

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3983323	209.0135	16.88306	57.39991	.1932014	-.016226
Stddev	.0120499	5.7403	.49247	1.74483	.0078326	.000575
%RSD	3.025085	2.746398	2.916922	3.039783	4.054107	3.543413
#1	.4048186	213.1095	17.07872	58.71754	.2012224	-.016776
#2	.4057497	211.4788	17.24763	58.06107	.1855719	-.016271
#3	.3844287	202.4524	16.32283	55.42113	.1928098	-.015629

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.031163	.1953650	1.750983	9.179242	F 15.09557	.0661934
Stddev	.088921	.0104618	.020188	.337061	.57956	.0033646
%RSD	4.377855	5.355023	1.152971	3.671994	3.839298	5.083012
#1	1.965849	.2006423	1.772926	9.398573	15.71140	.0671783
#2	2.132432	.2021372	1.746828	9.348020	14.56081	.0689556
#3	1.995208	.1833156	1.733196	8.791133	15.01449	.0624462

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4912-08 Acquired: 12/03/2024 1:01:02 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHJ6 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0040426	2.175354	6.100254	.2006918	1.216872	.0713502
Stddev	.0007132	.086916	.140862	.0069918	.037464	.0035987
%RSD	17.64182	3.995507	2.309112	3.483855	3.078749	5.043676
#1	.0033467	2.259713	6.200471	.2072711	1.239689	.0735825
#2	.0040093	2.086088	6.161095	.1933499	1.237294	.0732693
#3	.0047719	2.180260	5.939198	.2014543	1.173634	.0671987

Elem	Sr4077
Units	ppm
Avg	.4489239
Stddev	.0128777
%RSD	2.868567
#1	.4566484
#2	.4560654
#3	.4340578

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1196.728	35663.96	7151.201	1057.066	1584.079
Stddev	24.100	108.39	149.240	9.933	52.024
%RSD	2.013819	.3039204	2.086924	.9396682	3.284166
#1	1170.787	35539.57	7046.007	1045.648	1530.025
#2	1218.423	35738.18	7085.590	1063.711	1633.802
#3	1200.974	35714.12	7322.007	1061.840	1588.411

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4912-09 Acquired: 12/03/2024 1:05:24 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHJ7 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0680649	-.014256	1.573187	-.002422	.0063870	55.89869
Stddev	.0072272	.002088	.035860	.005078	.0030103	.13842
%RSD	10.61813	14.64866	2.279431	209.6208	47.13169	.2476266
#1	.0733380	-.014667	1.587100	-.004787	.0075402	56.05475
#2	.0710301	-.011992	1.532455	.003407	.0086502	55.79077
#3	.0598267	-.016108	1.600004	-.005886	.0029706	55.85055

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.059543	.0039950	.0133943	227.4110	.0902854	.0728234
Stddev	.002326	.0001246	.0006598	.1724	.0005508	.0014652
%RSD	.2195010	3.119421	4.925854	.0758135	.6100393	2.012012
#1	1.059882	.0041206	.0138501	227.3303	.0908455	.0726754
#2	1.061681	.0038714	.0126378	227.2938	.0902660	.0714378
#3	1.057067	.0039928	.0136952	227.6090	.0897445	.0743570

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2442279	156.2167	7.576408	40.31422	.1190764	-.015352
Stddev	.0015388	.4595	.007465	.18239	.0029324	.000491
%RSD	.6300550	.2941217	.0985334	.4524139	2.462613	3.195888
#1	.2450927	156.6682	7.570297	40.50942	.1200250	-.015764
#2	.2424513	155.7496	7.574198	40.14815	.1157871	-.014809
#3	.2451398	156.2324	7.584728	40.28509	.1214171	-.015483

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.297557	.1477300	1.177827	7.838887	F 17.65234	.0508699
Stddev	.218011	.0063305	.014626	.079610	.45803	.0015199
%RSD	9.488827	4.285170	1.241817	1.015578	2.594744	2.987894
#1	2.263136	.1525735	1.166479	7.930392	17.78754	.0526161
#2	2.098804	.1500496	1.194334	7.800742	17.14193	.0498447
#3	2.530731	.1405669	1.172668	7.785527	18.02756	.0501487

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4912-09 Acquired: 12/03/2024 1:05:24 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHJ7 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0018284	1.513839	5.015397	.1097197	2.831976	.0836987
Stddev	.0003269	.035738	.017953	.0034169	.010051	.0009184
%RSD	17.88011	2.360755	.3579505	3.114232	.3549015	1.097240
#1	.0019745	1.511261	5.012358	.1111447	2.839375	.0846915
#2	.0014539	1.479460	4.999158	.1058209	2.820533	.0828796
#3	.0020568	1.550796	5.034675	.1121935	2.836019	.0835249

Elem	Sr4077
Units	ppm
Avg	.3116987
Stddev	.0002729
%RSD	.0875385
#1	.3120110
#2	.3115063
#3	.3115789

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1247.920	36679.21	7259.443	1087.430	1643.971
Stddev	17.470	331.56	18.369	15.204	35.801
%RSD	1.399909	.9039569	.2530321	1.398126	2.177698
#1	1237.308	36985.18	7258.517	1096.962	1630.614
#2	1268.083	36326.92	7278.257	1069.896	1684.530
#3	1238.369	36725.52	7241.555	1095.431	1616.770

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4912-10 Acquired: 12/03/2024 1:09:48 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHJ8 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1252102	-.009165	2.063843	-.012867	.0075962	71.54142
Stddev	.0026300	.003060	.054392	.002772	.0022002	.87828
%RSD	2.100470	33.38424	2.635475	21.54595	28.96408	1.227648
#1	.1224476	-.011181	2.028500	-.011882	.0100513	72.54717
#2	.1254992	-.010670	2.036552	-.015998	.0058028	71.15127
#3	.1276837	-.005645	2.126478	-.010722	.0069346	70.92580

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.517548	.0055958	.0204737	332.3823	.1597145	.1062985
Stddev	.028006	.0001250	.0009482	3.4903	.0018402	.0018975
%RSD	1.112432	2.234511	4.631430	1.050083	1.152179	1.785086
#1	2.548986	.0055197	.0196281	336.3848	.1592154	.1048186
#2	2.508393	.0055276	.0202942	330.7899	.1581754	.1056391
#3	2.495265	.0057401	.0214989	329.9722	.1617528	.1084377

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4142103	208.2868	19.35807	91.52446	.2228489	-.012826
Stddev	.0064447	2.8067	.16806	1.46434	.0063511	.000549
%RSD	1.555898	1.347519	.8681408	1.599943	2.849941	4.277079
#1	.4204835	211.5202	19.54907	93.20926	.2183588	-.012923
#2	.4076069	206.8623	19.29230	90.55808	.2200726	-.013320
#3	.4145405	206.4781	19.23286	90.80603	.2301155	-.012236

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.305896	.2075161	4.696976	13.87971	F 18.86539	.0904624
Stddev	.360355	.0039943	.030161	.26901	.49773	.0030907
%RSD	15.62754	1.924831	.6421349	1.938173	2.638322	3.416583
#1	2.168756	.2120339	4.714802	14.18999	18.54191	.0938426
#2	2.714686	.2044528	4.662152	13.71180	18.61572	.0877808
#3	2.034245	.2060616	4.713974	13.73734	19.43854	.0897637

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4912-10 Acquired: 12/03/2024 1:09:48 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHJ8 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0075620	6.118449	6.376278	.0975326	1.033404	.0770259
Stddev	.0002847	.170542	.045709	.0085384	.014261	.0015347
%RSD	3.764766	2.787348	.7168538	8.754436	1.379992	1.992406
#1	.0075464	5.991297	6.425926	.0954429	1.049800	.0786980
#2	.0072855	6.051798	6.335943	.0902331	1.026535	.0756816
#3	.0078542	6.312252	6.366964	.1069220	1.023878	.0766981

Elem	Sr4077
Units	ppm
Avg	.3708867
Stddev	.0043960
%RSD	1.185259
#1	.3759029
#2	.3690518
#3	.3677055

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1109.175	33574.29	6662.366	994.2765	1525.649
Stddev	18.651	162.55	55.682	6.3198	34.727
%RSD	1.681500	.4841560	.8357695	.6356226	2.276185
#1	1120.220	33456.43	6598.123	989.1803	1550.382
#2	1119.664	33759.73	6696.757	1001.348	1540.616
#3	1087.642	33506.72	6692.217	992.301	1485.949

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4912-11 Acquired: 12/03/2024 1:14:11 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHJ9 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1028713	-.012278	1.734549	-.011418	.0068726	65.96642
Stddev	.0104611	.003025	.004046	.002853	.0021494	1.13659
%RSD	10.16912	24.63989	.2332885	24.98622	31.27491	1.722989
#1	.0940704	-.011318	1.738480	-.014603	.0062298	65.35581
#2	.1001063	-.015667	1.734771	-.010556	.0051180	65.26563
#3	.1144371	-.009849	1.730396	-.009096	.0092701	67.27781

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.652108	.0053200	.0148237	302.4366	.1351099	.0836130
Stddev	.022001	.0001013	.0003668	3.9017	.0016379	.0006097
%RSD	1.331704	1.904928	2.474629	1.290096	1.212298	.7292150
#1	1.643357	.0053809	.0151519	300.6443	.1365484	.0842884
#2	1.635828	.0053761	.0144277	299.7531	.1333272	.0834473
#3	1.677138	.0052031	.0148916	306.9125	.1354541	.0831032

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3431885	179.0051	12.08616	82.83561	.1833531	-.010957
Stddev	.0071354	3.0583	.15589	1.48889	.0012561	.000253
%RSD	2.079138	1.708524	1.289809	1.797399	.6850789	2.305250
#1	.3363468	177.2735	12.02473	81.98138	.1841189	-.010669
#2	.3426335	177.2054	11.97034	81.97064	.1819034	-.011059
#3	.3505851	182.5363	12.26340	84.55482	.1840369	-.011142

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.991229	.1838867	3.673544	10.40535	F 12.61044	.0813809
Stddev	.111207	.0047452	.014506	.31403	.03183	.0018999
%RSD	5.584859	2.580526	.3948890	3.017929	.2524273	2.334587
#1	1.984385	.1784230	3.681165	10.24751	12.58020	.0793324
#2	2.105700	.1869767	3.656815	10.20155	12.60748	.0830850
#3	1.883602	.1862604	3.682650	10.76698	12.64365	.0817254

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4912-11 Acquired: 12/03/2024 1:14:11 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHJ9 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0048037	4.804289	5.968530	.0799557	1.031206	.0650274
Stddev	.0005751	.018428	.081435	.0022246	.016582	.0018630
%RSD	11.97290	.3835702	1.364411	2.782305	1.608008	2.864889
#1	.0054440	4.799368	5.936571	.0814033	1.021867	.0632354
#2	.0046362	4.824677	5.907922	.0810697	1.021400	.0648927
#3	.0043309	4.788821	6.061097	.0773942	1.050352	.0669540

Elem	Sr4077
Units	ppm
Avg	.2998835
Stddev	.0039720
%RSD	1.324497
#1	.2975620
#2	.2976187
#3	.3044698

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1109.398	33028.71	6543.606	980.8646	1574.290
Stddev	1.603	127.92	85.847	2.9448	1.428
%RSD	.1445310	.3872967	1.311929	.3002251	.0907135
#1	1107.617	33050.38	6585.380	980.5656	1575.438
#2	1110.725	33144.41	6600.571	983.9475	1574.742
#3	1109.853	32891.34	6444.866	978.0807	1572.691

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4912-12 Acquired: 12/03/2024 1:18:34 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHK0 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1491660	-.010040	2.520276	-.007550	.0056996	77.29342
Stddev	.0027868	.003612	.009167	.004498	.0040003	1.06734
%RSD	1.868237	35.97398	.3637268	59.58147	70.18554	1.380896
#1	.1523173	-.013223	2.526421	-.006998	.0083988	77.80459
#2	.1470266	-.006114	2.509739	-.012299	.0011037	76.06663
#3	.1481540	-.010784	2.524666	-.003353	.0075963	78.00906

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.576142	.0064637	.0195564	129.8593	.1678958	.1041532
Stddev	.036263	.0001770	.0001845	1.5445	.0118339	.0007180
%RSD	1.407647	2.737702	.9432195	1.189379	7.048359	.6893375
#1	2.598295	.0066032	.0193653	130.6503	.1787548	.1042922
#2	2.534293	.0062647	.0197334	128.0795	.1696498	.1033759
#3	2.595839	.0065233	.0195705	130.8482	.1552828	.1047915

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4386631	230.1751	16.69956	37.43629	.2365405	-.018904
Stddev	.0078499	2.7451	.21266	.44969	.0009185	.003763
%RSD	1.789497	1.192633	1.273459	1.201207	.3882893	19.90400
#1	.4397484	231.0171	16.82262	37.53521	.2373724	-.015449
#2	.4303270	227.1076	16.45399	36.94538	.2355549	-.018348
#3	.4459138	232.4006	16.82205	37.82828	.2366943	-.022913

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.594313	.2458445	3.126151	10.18380	F 14.81121	.0824276
Stddev	.249442	.0127064	.191859	.19711	.08438	.0012367
%RSD	9.614963	5.168469	6.137243	1.935556	.5697281	1.500326
#1	2.650057	.2398957	3.311903	10.27535	14.86986	.0823884
#2	2.811168	.2372036	3.137832	9.95756	14.71450	.0812109
#3	2.321715	.2604340	2.928717	10.31849	14.84927	.0836834

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4912-12 Acquired: 12/03/2024 1:18:34 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHK0 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0075085	3.855162	5.906900	.1301660	1.399684	.0808437
Stddev	.0006369	.039353	.076853	.0022198	.016379	.0027897
%RSD	8.482003	1.020784	1.301077	1.705349	1.170161	3.450692
#1	.0082432	3.874095	5.986920	.1305325	1.409501	.0804030
#2	.0071703	3.809921	5.833663	.1277858	1.380776	.0783007
#3	.0071122	3.881470	5.900115	.1321797	1.408774	.0838276

Elem	Sr4077
Units	ppm
Avg	.3768400
Stddev	.0054753
%RSD	1.452937
#1	.3796221
#2	.3705323
#3	.3803656

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1175.087	34907.70	6899.187	1036.945	1648.420
Stddev	2.309	1695.74	69.202	55.126	6.822
%RSD	.1964773	4.857792	1.003039	5.316156	.4138397
#1	1172.601	33232.26	6863.661	984.712	1642.503
#2	1177.163	34867.78	6978.936	1031.556	1655.882
#3	1175.497	36623.04	6854.964	1094.568	1646.876

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4912-13 Acquired: 12/03/2024 1:22:56 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHK1 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1819575	-.005237	2.323360	-.009632	.0070739	71.18330
Stddev	.0020681	.001016	.001721	.008598	.0021506	.50145
%RSD	1.136601	19.40777	.0740786	89.25972	30.40243	.7044542
#1	.1795708	-.004311	2.321422	-.019183	.0060143	70.89222
#2	.1830806	-.005076	2.323947	-.002511	.0056587	71.76233
#3	.1832210	-.006324	2.324711	-.007203	.0095487	70.89535

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.043583	.0066885	.0182559	112.1246	.1267407	.1157001
Stddev	.017609	.0001918	.0001508	.8956	.0005104	.0008127
%RSD	.5785470	2.867769	.8260034	.7987144	.4027382	.7024476
#1	3.034610	.0065321	.0181404	111.6640	.1273170	.1150844
#2	3.063871	.0066310	.0182008	113.1567	.1263454	.1166213
#3	3.032269	.0069025	.0184265	111.5531	.1265598	.1153945

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4608703	225.8729	24.27267	29.46083	.2197768	-.020254
Stddev	.0059698	1.7605	.18387	.14489	.0014684	.000406
%RSD	1.295330	.7794370	.7575335	.4918036	.6681507	2.003715
#1	.4603437	225.1833	24.15846	29.33340	.2214269	-.019909
#2	.4670860	227.8739	24.48478	29.61843	.2192896	-.020701
#3	.4551813	224.5616	24.17477	29.43065	.2186139	-.020151

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.692820	.2358401	2.067760	9.490804	F 16.27728	.0816289
Stddev	.314858	.0065408	.009646	.070971	.05321	.0010942
%RSD	11.69251	2.773402	.4664847	.7477895	.3268830	1.340443
#1	3.055029	.2341633	2.078594	9.475834	16.28415	.0825728
#2	2.538896	.2430560	2.060106	9.568066	16.32672	.0818843
#3	2.484533	.2303009	2.064579	9.428512	16.22097	.0804296

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4912-13 Acquired: 12/03/2024 1:22:56 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHK1 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0098857	3.470848	6.585050	.0943780	1.034013	.0626039
Stddev	.0004532	.015304	.050296	.0011562	.006747	.0018399
%RSD	4.584015	.4409374	.7637912	1.225030	.6524665	2.938931
#1	.0100938	3.470306	6.561238	.0930987	1.029967	.0607263
#2	.0093658	3.486417	6.642830	.0946873	1.041801	.0644036
#3	.0101974	3.455823	6.551082	.0953481	1.030270	.0626817

Elem	Sr4077
Units	ppm
Avg	.2730515
Stddev	.0018665
%RSD	.6835814
#1	.2722353
#2	.2751872
#3	.2717322

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1211.317	36011.77	7025.236	1066.333	1664.071
Stddev	4.341	64.28	40.801	6.861	6.044
%RSD	.3583543	.1784913	.5807816	.6434580	.3632146
#1	1208.466	35937.90	7037.459	1058.515	1660.724
#2	1209.173	36042.39	6979.720	1071.354	1660.440
#3	1216.313	36055.01	7058.528	1069.131	1671.048

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4912-14 Acquired: 12/03/2024 1:27:18 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHK2 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2363079	-.010275	1.607688	-.010850	.0077516	80.37342
Stddev	.0079255	.005910	.019296	.006549	.0004824	.23373
%RSD	3.353889	57.51689	1.200245	60.35839	6.223906	.2908094
#1	.2309623	-.007617	1.629730	-.018020	.0075537	80.60877
#2	.2325480	-.017048	1.599487	-.009344	.0083016	80.37015
#3	.2454136	-.006162	1.593847	-.005185	.0073996	80.14133

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.224709	.0068390	.0239775	172.2242	.1261694	.1528444
Stddev	.002796	.0002088	.0006077	.0960	.0003776	.0011649
%RSD	.0867030	3.053478	2.534503	.0557561	.2992485	.7621595
#1	3.226740	.0070801	.0245940	172.2362	.1258436	.1537066
#2	3.221520	.0067230	.0239595	172.1227	.1260815	.1533076
#3	3.225867	.0067139	.0233789	172.3136	.1265832	.1515192

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4484587	301.5070	27.69535	31.93286	.2436374	-.028457
Stddev	.0049343	1.1042	.03454	.10051	.0031619	.000311
%RSD	1.100279	.3662200	.1247090	.3147575	1.297795	1.093244
#1	.4440277	302.4943	27.65878	31.98470	.2472623	-.028814
#2	.4537761	301.7122	27.69985	31.81701	.2414472	-.028315
#3	.4475723	300.3147	27.72742	31.99687	.2422027	-.028242

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.361947	.2522377	1.495157	10.69307	F 22.83669	.0940598
Stddev	.052444	.0029081	.006125	.08284	.22587	.0030014
%RSD	1.559938	1.152901	.4096776	.7747325	.9890644	3.190902
#1	3.415118	.2490009	1.501404	10.78859	23.09749	.0953898
#2	3.360462	.2530820	1.494908	10.64080	22.70424	.0906233
#3	3.310261	.2546301	1.489161	10.64982	22.70834	.0961664

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4912-14 Acquired: 12/03/2024 1:27:18 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHK2 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0092320	4.241526	5.930571	.0598641	.9105245	.0690010
Stddev	.0005191	.055910	.018816	.0019765	.0039602	.0014022
%RSD	5.622452	1.318160	.3172795	3.301596	.4349353	2.032120
#1	.0087654	4.305688	5.951388	.0576969	.9142149	.0706200
#2	.0091395	4.215636	5.914774	.0615672	.9110180	.0681743
#3	.0097911	4.203253	5.925549	.0603283	.9063408	.0682088

Elem	Sr4077
Units	ppm
Avg	.2849828
Stddev	.0008446
%RSD	.2963556
#1	.2848867
#2	.2858713
#3	.2841904

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1284.363	38418.90	7613.020	1139.108	1601.309
Stddev	9.130	21.67	33.274	5.052	17.004
%RSD	.7108824	.0564173	.4370663	.4435368	1.061893
#1	1274.530	38405.06	7576.804	1134.394	1581.675
#2	1285.987	38407.76	7620.017	1138.487	1611.034
#3	1292.573	38443.88	7642.239	1144.442	1611.219

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4912-15 Acquired: 12/03/2024 1:31:41 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHK3 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1450821	-.009506	.4820495	-.012392	.0047536	58.44911
Stddev	.0057390	.001774	.0090820	.000573	.0045395	.21905
%RSD	3.955675	18.65756	1.884046	4.624939	95.49609	.3747711
#1	.1516771	-.010472	.4918627	-.012714	.0076449	58.66083
#2	.1412229	-.007459	.4803459	-.011731	.0070945	58.22340
#3	.1423464	-.010587	.4739399	-.012732	-.000479	58.46310

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.646115	.0046986	.0162737	164.8943	.0974842	.1156911
Stddev	.008151	.0001162	.0007992	.7398	.0006342	.0019688
%RSD	.3080421	2.473910	4.910944	.4486753	.6505922	1.701786
#1	2.653992	.0046029	.0165099	165.6006	.0975415	.1171305
#2	2.637715	.0048279	.0169282	164.1250	.0980879	.1164952
#3	2.646639	.0046648	.0153831	164.9574	.0968233	.1134475

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2321661	247.8673	27.04942	41.58255	.1786823	-.022573
Stddev	.0021409	.8942	.14804	.22655	.0030063	.000260
%RSD	.9221388	.3607459	.5473016	.5448245	1.682492	1.149850
#1	.2321495	248.8771	27.19521	41.80083	.1790890	-.022830
#2	.2300335	247.1757	26.89923	41.34855	.1814645	-.022579
#3	.2343152	247.5493	27.05381	41.59827	.1754933	-.022311

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.612959	.2215022	.8740791	7.644039	F 14.29620	.0825144
Stddev	.132257	.0013424	.0018680	.111659	.29456	.0009549
%RSD	5.061594	.6060216	.2137134	1.460727	2.060427	1.157231
#1	2.465054	.2221346	.8751954	7.630497	14.47868	.0832881
#2	2.653972	.2224115	.8751192	7.539769	14.45354	.0814472
#3	2.719851	.2199604	.8719225	7.761851	13.95638	.0828080

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4912-15 Acquired: 12/03/2024 1:31:41 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHK3 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0030340	2.030443	6.608325	.0547332	.6270478	.0502266
Stddev	.0001727	.051793	.025600	.0028563	.0033862	.0016877
%RSD	5.692583	2.550802	.3873973	5.218555	.5400143	3.360207
#1	.0030223	2.048759	6.637694	.0561190	.6302991	.0502730
#2	.0032122	2.070589	6.596554	.0566322	.6235413	.0485162
#3	.0028674	1.971981	6.590728	.0514484	.6273031	.0518907

Elem	Sr4077
Units	ppm
Avg	.2112909
Stddev	.0010876
%RSD	.5147459
#1	.2124552
#2	.2103011
#3	.2111164

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1220.787	36124.11	7090.235	1063.244	1649.751
Stddev	12.286	62.95	37.700	2.323	31.891
%RSD	1.006416	.1742489	.5317208	.2184902	1.933062
#1	1213.352	36075.01	7047.675	1060.788	1632.674
#2	1214.042	36195.07	7119.440	1063.537	1630.035
#3	1234.969	36102.25	7103.589	1065.406	1686.543

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4912-16 Acquired: 12/03/2024 1:36:03 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHL8 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1380412	-.013230	4.083701	-.000747	.0089734	82.53401
Stddev	.0121397	.000581	.007946	.010714	.0035868	1.93257
%RSD	8.794231	4.388503	.1945903	1433.725	39.97137	2.341550
#1	.1310169	-.013588	4.091663	.003587	.0060454	84.47531
#2	.1520588	-.013542	4.083670	-.012950	.0129742	80.61028
#3	.1310477	-.012560	4.075770	.007121	.0079008	82.51643

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.072256	.0060976	.0223487	67.26786	.1833802	.1389233
Stddev	.047974	.0000957	.0001378	1.50248	.0020966	.0014650
%RSD	2.315084	1.569847	.6166248	2.233583	1.143323	1.054527
#1	2.123055	.0060620	.0222327	68.80502	.1825583	.1399322
#2	2.027722	.0062060	.0225010	65.80263	.1857633	.1372429
#3	2.065992	.0060248	.0223124	67.19594	.1818191	.1395946

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5159935	249.0069	13.73223	24.85552	.2556038	-.021377
Stddev	.0147926	5.7193	.29949	.50436	.0006344	.000428
%RSD	2.866810	2.296860	2.180930	2.029180	.2481783	2.001282
#1	.5308134	254.5720	14.03424	25.36120	.2563099	-.021749
#2	.5012284	243.1449	13.43532	24.35248	.2554196	-.020910
#3	.5159386	249.3039	13.72713	24.85287	.2550820	-.021473

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.928707	.2402708	3.166956	9.833396	F 15.28929	.0820381
Stddev	.419576	.0117929	.018289	.361243	.06514	.0027330
%RSD	21.75427	4.908149	.5774950	3.673636	.4260343	3.331358
#1	1.446245	.2480222	3.188073	10.14613	15.36450	.0841608
#2	2.208239	.2266993	3.156236	9.43798	15.25291	.0789544
#3	2.131637	.2460910	3.156559	9.91609	15.25048	.0829992

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4912-16 Acquired: 12/03/2024 1:36:03 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHL8 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0407497	5.289073	7.042734	.1531014	1.649705	.0824879
Stddev	.0001241	.023985	.112536	.0039084	.041644	.0028678
%RSD	.3045232	.4534783	1.597898	2.552792	2.524308	3.476618
#1	.0408923	5.316767	7.158207	.1539857	1.689818	.0847453
#2	.0406910	5.275451	6.933386	.1488267	1.606683	.0792610
#3	.0406659	5.275002	7.036609	.1564919	1.652614	.0834575

Elem	Sr4077
Units	ppm
Avg	.2221476
Stddev	.0052431
%RSD	2.360166
#1	.2270715
#2	.2166350
#3	.2227363

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1180.196	35118.38	6780.736	1043.854	1690.443
Stddev	5.174	81.24	126.981	6.525	6.751
%RSD	.4384266	.2313189	1.872677	.6251292	.3993444
#1	1174.276	35050.74	6650.199	1036.321	1683.241
#2	1182.459	35095.90	6903.835	1047.484	1691.462
#3	1183.854	35208.48	6788.175	1047.758	1696.627

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4912-17 Acquired: 12/03/2024 1:40:26 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHL9 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1625224	-.011334	4.673017	-.007425	.0046496	82.36802
Stddev	.0071468	.000663	.025145	.007671	.0042345	.69771
%RSD	4.397438	5.846959	.5380997	103.3114	91.07185	.8470679
#1	.1700425	-.010751	4.657278	.001264	-.000066	82.76530
#2	.1558191	-.011197	4.659755	-.013260	.005888	82.77636
#3	.1617056	-.012055	4.702017	-.010279	.008127	81.56239

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.055897	.0060733	.0218344	101.9959	.1882465	.1105601
Stddev	.016670	.0002006	.0001412	.6996	.0005765	.0012264
%RSD	.8108401	3.303446	.6466857	.6858994	.3062369	1.109278
#1	2.064902	.0061055	.0217115	102.1005	.1880692	.1099035
#2	2.066128	.0058585	.0219886	102.6373	.1888908	.1098018
#3	2.036661	.0062559	.0218030	101.2499	.1877795	.1119751

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5397484	195.8316	12.90215	41.36457	.2222133	-.015843
Stddev	.0023663	1.3773	.08605	.24935	.0008787	.000267
%RSD	.4384159	.7033023	.6669516	.6028037	.3954480	1.686820
#1	.5411428	196.5184	12.93942	41.41331	.2226708	-.015660
#2	.5410862	196.7304	12.96328	41.58595	.2212002	-.016150
#3	.5370162	194.2459	12.80375	41.09445	.2227688	-.015720

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.983515	.2312058	3.265359	8.535210	F 14.11747	.0635073
Stddev	.314365	.0003373	.015415	.040713	.04493	.0019186
%RSD	15.84887	.1458818	.4720757	.4769995	.3182493	3.021028
#1	2.339705	.2315793	3.282292	8.577187	14.13900	.0640271
#2	1.744826	.2311146	3.252142	8.532552	14.06583	.0613823
#3	1.866013	.2309234	3.261642	8.495892	14.14759	.0651123

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4912-17 Acquired: 12/03/2024 1:40:26 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHL9 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0070433	3.593192	6.952276	.1432259	1.624841	.0864089
Stddev	.0006373	.003187	.020113	.0023816	.018207	.0018715
%RSD	9.048524	.0886938	.2893072	1.662812	1.120560	2.165806
#1	.0075397	3.589608	6.929185	.1415817	1.633858	.0852949
#2	.0072656	3.595708	6.961662	.1459571	1.636780	.0885695
#3	.0063246	3.594260	6.965980	.1421390	1.603885	.0853624

Elem	Sr4077
Units	ppm
Avg	.2287391
Stddev	.0020306
%RSD	.8877491
#1	.2299266
#2	.2298962
#3	.2263944

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1168.412	34804.94	6803.643	1028.893	1666.475
Stddev	1.498	97.78	29.349	5.312	3.491
%RSD	.1282203	.2809242	.4313677	.5163040	.2094831
#1	1167.265	34705.69	6817.827	1023.385	1667.725
#2	1167.865	34807.96	6769.896	1029.309	1669.169
#3	1170.107	34901.17	6823.205	1033.985	1662.531

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4912-18 Acquired: 12/03/2024 1:44:50 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHM0 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2182807	-.009223	4.433864	-.013711	.0103302	80.80506
Stddev	.0088094	.005228	.025534	.004938	.0034768	4.81587
%RSD	4.035805	56.68374	.5758847	36.01203	33.65700	5.959863
#1	.2081928	-.005697	4.447661	-.009958	.0084489	83.86498
#2	.2244560	-.006743	4.404400	-.011871	.0143423	83.29633
#3	.2221934	-.015230	4.449532	-.019304	.0081993	75.25387

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.446416	.0062770	.0326680	93.60843	.1679551	.1235217
Stddev	.141993	.0001582	.0006770	5.48627	.0021067	.0006413
%RSD	5.804110	2.520931	2.072394	5.860875	1.254333	.5191708
#1	2.536604	.0062635	.0327001	97.09827	.1697720	.1242158
#2	2.519904	.0064415	.0319755	96.44226	.1656458	.1229512
#3	2.282741	.0061259	.0333284	87.28476	.1684476	.1233981

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5506475	241.9767	13.77304	25.94295	.2283114	-.017902
Stddev	.0299287	14.2400	.80431	1.37500	.0018096	.001169
%RSD	5.435178	5.884875	5.839768	5.300072	.7926007	6.527734
#1	.5695439	251.0967	14.25913	26.87161	.2298712	-.017823
#2	.5662577	249.2658	14.21535	26.59388	.2263274	-.019108
#3	.5161410	225.5678	12.84465	24.36336	.2287356	-.016775

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.231547	.2336283	3.672269	8.233457	F 15.22641	.0642085
Stddev	.084129	.0094810	.034002	.811306	.09676	.0055824
%RSD	3.770008	4.058148	.9259058	9.853771	.6354900	8.694192
#1	2.328619	.2373833	3.710183	8.800102	15.31341	.0628356
#2	2.186246	.2406566	3.662145	8.596200	15.12220	.0703493
#3	2.179774	.2228449	3.644479	7.304067	15.24363	.0594406

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4912-18 Acquired: 12/03/2024 1:44:50 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHM0 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0087283	3.157705	6.054409	.1594811	1.480436	.0822279
Stddev	.0005426	.014370	.291254	.0048925	.083535	.0070335
%RSD	6.216099	.4550817	4.810610	3.067786	5.642585	8.553703
#1	.0086631	3.167135	6.243752	.1616530	1.533261	.0866906
#2	.0082214	3.141166	6.200446	.1538786	1.523918	.0858732
#3	.0093006	3.164813	5.719028	.1629116	1.384129	.0741200

Elem	Sr4077
Units	ppm
Avg	.3301150
Stddev	.0194724
%RSD	5.898662
#1	.3421428
#2	.3405532
#3	.3076490

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1180.625	34939.51	7066.939	1036.478	1680.004
Stddev	6.631	311.08	336.751	8.634	10.652
%RSD	.5616744	.8903417	4.765155	.8330509	.6340444
#1	1174.890	34581.98	6847.403	1026.900	1671.606
#2	1187.886	35088.32	6898.761	1038.871	1691.986
#3	1179.099	35148.24	7454.653	1043.664	1676.420

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4912-19 Acquired: 12/03/2024 1:49:12 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHM1 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1872681	-.008607	2.506981	-.006375	.0090961	96.25042
Stddev	.0020015	.003180	.005925	.012022	.0020668	2.58853
%RSD	1.068815	36.94754	.2363375	188.5729	22.72193	2.689372
#1	.1892173	-.004938	2.513429	-.020100	.0113884	99.23350
#2	.1852180	-.010317	2.505738	.002288	.0073748	94.59629
#3	.1873690	-.010566	2.501777	-.001314	.0085252	94.92149

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.748073	.0065067	.0222485	84.17361	.1590687	.1337740
Stddev	.051656	.0001841	.0004399	2.36300	.0116976	.0004492
%RSD	2.955050	2.828997	1.977128	2.807291	7.353829	.3357867
#1	1.807616	.0066371	.0217566	86.89284	.1605550	.1341929
#2	1.715247	.0062961	.0226041	82.61875	.1466989	.1332996
#3	1.721355	.0065869	.0223849	83.00925	.1699522	.1338293

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4150767	245.7002	16.39235	25.72647	.2083180	-.022624
Stddev	.0088524	6.4914	.44028	.83760	.0005636	.003842
%RSD	2.132703	2.641987	2.685879	3.255810	.2705409	16.98387
#1	.4252985	253.1898	16.89885	26.69155	.2086472	-.022424
#2	.4099600	241.6964	16.10118	25.18879	.2086395	-.026563
#3	.4099716	242.2144	16.17703	25.29906	.2076672	-.018886

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.714159	.2665243	2.373620	8.687883	F 13.69766	.0626756
Stddev	.280756	.0088823	.145116	.362704	.01954	.0046150
%RSD	16.37864	3.332637	6.113688	4.174827	.1426778	7.363294
#1	1.429361	.2766518	2.400021	9.091724	13.69109	.0678613
#2	1.990690	.2600573	2.217117	8.582083	13.68224	.0611456
#3	1.722426	.2628637	2.503724	8.389843	13.71964	.0590199

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4912-19 Acquired: 12/03/2024 1:49:12 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHM1 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0070307	2.408025	5.497000	.1472372	1.539590	.0794983
Stddev	.0001094	.011167	.152785	.0024839	.040225	.0039232
%RSD	1.556663	.4637556	2.779418	1.687022	2.612698	4.934998
#1	.0071516	2.395779	5.659687	.1499902	1.585984	.0840003
#2	.0070019	2.410650	5.356557	.1451637	1.514472	.0776844
#3	.0069385	2.417646	5.474755	.1465578	1.518312	.0768103

Elem	Sr4077
Units	ppm
Avg	.2702389
Stddev	.0077032
%RSD	2.850521
#1	.2790897
#2	.2650473
#3	.2665796

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1210.875	36381.02	6902.819	1079.882	1685.687
Stddev	.625	1880.73	158.809	54.282	.299
%RSD	.0515820	5.169541	2.300638	5.026627	.0177276
#1	1210.567	35916.41	6720.170	1068.334	1685.975
#2	1210.465	38450.51	7008.279	1139.008	1685.707
#3	1211.594	34776.14	6980.009	1032.303	1685.378

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4912-20 Acquired: 12/03/2024 1:53:34 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHM2 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1536998	-.011380	2.812581	-.007366	.0048795	59.77473
Stddev	.0115542	.003903	.083012	.003160	.0020652	5.38641
%RSD	7.517359	34.29563	2.951460	42.90440	42.32375	9.011190
#1	.1474408	-.010450	2.731785	-.004540	.0028255	53.96104
#2	.1466255	-.008027	2.808314	-.010778	.0069557	64.59580
#3	.1670331	-.015664	2.897645	-.006780	.0048572	60.76734

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.515641	.0043129	.0132763	346.7660	.1327064	.0877229
Stddev	.132617	.0003177	.0007834	30.4706	.0013374	.0032567
%RSD	8.749910	7.365564	5.900450	8.787082	1.007793	3.712488
#1	1.372691	.0039477	.0135100	314.0601	.1342094	.0840826
#2	1.634668	.0045252	.0124027	374.3529	.1322621	.0887263
#3	1.539564	.0044659	.0139162	351.8850	.1316477	.0903598

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3643137	168.9699	13.73920	26.81096	.1343660	-.008547
Stddev	.0312472	15.0597	1.20461	2.45987	.0040896	.001552
%RSD	8.577001	8.912681	8.767720	9.174853	3.043649	18.16300
#1	.3311129	152.5975	12.44956	24.18580	.1297915	-.006855
#2	.3931479	182.2310	14.83537	29.06287	.1356381	-.009906
#3	.3686803	172.0811	13.93268	27.18421	.1376684	-.008881

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.833370	.1700307	1.828092	6.871126	F 10.98785	.0573438
Stddev	.194464	.0193639	.005284	.887748	.32200	.0073037
%RSD	10.60693	11.38848	.2890572	12.91997	2.930474	12.73675
#1	2.057887	.1504663	1.828848	5.961523	10.66277	.0493738
#2	1.724341	.1891877	1.832958	7.735271	10.99412	.0637171
#3	1.717881	.1704379	1.822471	6.916585	11.30667	.0589405

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4912-20 Acquired: 12/03/2024 1:53:34 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHM2 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0037366	2.430438	6.398784	.1937175	1.313107	.0792044
Stddev	.0005209	.086502	.441653	.0048495	.115861	.0112128
%RSD	13.94131	3.559109	6.902136	2.503367	8.823400	14.15672
#1	.0033540	2.345776	5.920491	.1892002	1.186371	.0683215
#2	.0043298	2.426866	6.791176	.1931104	1.413586	.0907202
#3	.0035260	2.518670	6.484684	.1988420	1.339363	.0785716

Elem	Sr4077
Units	ppm
Avg	.7125433
Stddev	.0628790
%RSD	8.824588
#1	.6448203
#2	.7690756
#3	.7237340

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1102.478	33021.06	6652.076	978.0413	1573.933
Stddev	23.339	10.66	472.015	1.8627	43.226
%RSD	2.116929	.0322736	7.095754	.1904505	2.746382
#1	1125.145	33030.76	7171.383	979.2789	1615.916
#2	1103.770	33009.65	6249.110	975.8991	1576.323
#3	1078.521	33022.78	6535.736	978.9461	1529.562

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4912-21 Acquired: 12/03/2024 1:57:57 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHM3 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1135493	-.007027	.9410355	-.007365	.0035687	86.88345
Stddev	.0095416	.004007	.0155551	.004740	.0031514	.34898
%RSD	8.403065	57.01542	1.652976	64.35942	88.30840	.4016676
#1	.1027843	-.002669	.9280128	-.011073	.0059194	86.48283
#2	.1209636	-.007860	.9582598	-.002024	.0047989	87.12138
#3	.1169001	-.010552	.9368339	-.008997	-.000012	87.04615

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.280901	.0058806	.0128060	40.85769	.1168447	.1114419
Stddev	.005539	.0001409	.0003236	.12733	.0006753	.0008324
%RSD	.4323977	2.396261	2.526751	.3116458	.5779559	.7469283
#1	1.274595	.0057202	.0126501	40.71157	.1167979	.1106912
#2	1.283127	.0059843	.0131780	40.91665	.1161940	.1123371
#3	1.284980	.0059374	.0125899	40.94485	.1175422	.1112974

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2386803	217.8899	17.00320	19.45450	.1510594	-.022965
Stddev	.0034250	.6444	.05757	.09773	.0020423	.000189
%RSD	1.434959	.2957365	.3385878	.5023615	1.351993	.8238888
#1	.2425139	217.2366	16.93972	19.34269	.1493796	-.022786
#2	.2359220	218.5250	17.01784	19.49715	.1533327	-.022944
#3	.2376050	217.9079	17.05204	19.52365	.1504658	-.023163

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.733692	.2297718	.8274815	6.094195	F 11.32513	.0504712
Stddev	.176392	.0054040	.0032372	.105048	.17197	.0028275
%RSD	10.17438	2.351883	.3912105	1.723742	1.518488	5.602257
#1	1.934921	.2300377	.8301513	5.975735	11.17936	.0528552
#2	1.660362	.2242397	.8238809	6.130826	11.51479	.0512112
#3	1.605793	.2350378	.8284125	6.176023	11.28124	.0473473

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4912-21 Acquired: 12/03/2024 1:57:57 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHM3 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0034126	1.581058	5.893025	.1767632	1.660769	.0631899
Stddev	.0005597	.030734	.004807	.0035906	.008757	.0011992
%RSD	16.40146	1.943895	.0815669	2.031296	.5272859	1.897828
#1	.0036396	1.550515	5.887564	.1742569	1.650774	.0618183
#2	.0038231	1.611980	5.894901	.1808766	1.667095	.0637103
#3	.0027750	1.580681	5.896612	.1751561	1.664436	.0640409

Elem	Sr4077
Units	ppm
Avg	.2018976
Stddev	.0007490
%RSD	.3709859
#1	.2010337
#2	.2023647
#3	.2022945

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1227.845	36335.12	6999.452	1083.434	1737.045
Stddev	9.549	61.98	10.678	3.153	20.913
%RSD	.7777201	.1705831	.1525523	.2909871	1.203947
#1	1237.432	36263.55	7008.957	1082.459	1755.712
#2	1218.334	36370.32	7001.501	1086.959	1714.444
#3	1227.768	36371.48	6987.898	1080.884	1740.978

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4912-22 Acquired: 12/03/2024 2:02:19 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHM4 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	s .0739405	s .0032587	s 1.410641	k .0046594	k .0049755	72.60707
Stddev	.0758866	.0210056	1.087358	.0130931	.0045551	.37537
%RSD	102.6320	644.5944	77.08252	281.0025	91.54915	.5169911
#1	.1143598	-.011131	2.077186	.0019812	.0061740	72.39483
#2	.1210622	-.006456	1.998854	-.006888	.0088116	73.04049
#3	s -.013600	s .027363	s .155883	k .018885	k -.000059	72.38591

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.035810	k .0054682	s .0102116	406.2155	k .1546135	s .0682557
Stddev	.011674	.0005317	.0145396	2.5844	.0048261	.0541733
%RSD	.5734552	9.723040	142.3835	.6362083	3.121419	79.36815
#1	2.029200	.0056945	.0191864	404.8588	.1507263	.1014795
#2	2.049289	.0058493	.0180119	409.1957	.1600153	.0975445
#3	2.028939	k .0048608	s -.006564	404.5920	k .1530990	s .0057431

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	k .4157253	198.9695	k 15.75274	107.2559	s .1438789	k -.008633
Stddev	.0058948	1.0928	.10602	.7055	.1129305	.001917
%RSD	1.417960	.5492162	.6730255	.6577962	78.48996	22.20976
#1	.4089449	198.6007	15.68971	106.9698	.2128127	-.010709
#2	.4185967	200.1990	15.87514	108.0595	.2052733	-.006929
#3	k .4196342	198.1088	k 15.69336	106.7383	s .0135507	k -.008261

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.451699	k .2025851	k 4.893425	14.14285	sF 13.56203	k .0955230
Stddev	.148922	.0017718	.189012	.15138	10.80563	.0019693
%RSD	6.074230	.8745977	3.862577	1.070394	79.67559	2.061611
#1	2.365214	.2045125	4.782732	14.06952	20.20221	.0974567
#2	2.623658	.2010272	5.111670	14.31693	19.39031	.0935199
#3	2.366225	k .2022156	k 4.785873	14.04209	s 1.09357	k .0955924

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4912-22 Acquired: 12/03/2024 2:02:19 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHM4 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0033282	s 4.452127	k 7.854262	s .0541962	k 1.013409	.0787806
Stddev	.0027715	3.577244	.131032	.0454871	.005169	.0023428
%RSD	83.27370	80.34911	1.668287	83.93030	.5100853	2.973880
#1	.0047982	6.678239	7.807154	.0832990	1.012954	.0762673
#2	.0050549	6.352374	8.002335	.0775110	1.018791	.0809041
#3	.0001314	s .325768	k 7.753298	s .0017787	k 1.008483	.0791702

Elem	Sr4077
Units	ppm
Avg	.4204046
Stddev	.0032192
%RSD	.7657471
#1	.4177863
#2	.4239989
#3	.4194286

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1807.248	32749.91	6737.514	972.5427	^ *****
Stddev	1163.333	1038.69	60.931	31.5231	-----
%RSD	64.37037	3.171583	.9043520	3.241308	-----
#1	1124.250	33343.28	6748.075	989.5833	1526.486
#2	1147.011	31550.56	6671.993	936.1670	1556.552
#3	3150.485	33355.90	6792.474	991.8776	^ -----

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4932-01 Acquired: 12/03/2024 2:06:40 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHQ1 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1033413	-.007094	2.788846	-.003138	.0123476	52.20818	1.276391
Stddev	.0020377	.002592	.024589	.004753	.0052828	.26875	.007062
%RSD	1.971815	36.54435	.8817005	151.4731	42.78425	.5147643	.5532869
#1	.1049324	-.008312	2.810228	.002331	.0149907	51.89805	1.268451
#2	.1040469	-.008853	2.761977	-.006269	.0157872	52.37298	1.281971
#3	.1010446	-.004117	2.794332	-.005474	.0062649	52.35349	1.278753

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0040462	.0164297	112.3092	.1518202	.0758670	.6834355	141.1607
Stddev	.0002836	.0002822	.6492	.0028172	.0005889	.0066983	.7901
%RSD	7.008536	1.717605	.5780663	1.855629	.7762810	.9800965	.5597411
#1	.0043171	.0164339	111.5647	.1540767	.0765425	.6779530	140.2506
#2	.0040701	.0161455	112.7573	.1486627	.0754608	.6814518	141.5597
#3	.0037514	.0167098	112.6057	.1527212	.0755979	.6909015	141.6718

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.666616	32.74313	.1602732	-.011023	1.155354	.1529453	2.300774
Stddev	.053473	.31402	.0014182	.000894	.300330	.0013337	.036479
%RSD	.5531698	.9590531	.8848451	8.110168	25.99462	.8719847	1.585498
#1	9.607644	32.38064	.1604723	-.010433	1.289725	.1515876	2.336756
#2	9.711946	32.93228	.1587660	-.012051	1.365037	.1542535	2.263818
#3	9.680257	32.91647	.1615813	-.010584	.811299	.1529948	2.301748

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.581276	9.137696	.0564300	.0033058	2.443422	5.019033	.1556999
Stddev	.146758	.072988	.0022605	.0002460	.018732	.013098	.0042409
%RSD	1.935798	.7987552	4.005793	7.441155	.7666153	.2609681	2.723778
#1	7.412030	9.153009	.0574361	.0032110	2.457825	5.003922	.1517568
#2	7.658488	9.058267	.0580128	.0035851	2.422246	5.027136	.1551567
#3	7.673308	9.201812	.0538412	.0031213	2.450195	5.026041	.1601863

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4932-01 Acquired: 12/03/2024 2:06:40 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHQ1 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	1.005739	.0491639	.2072530
Stddev	.003126	.0002218	.0011742
%RSD	.3108003	.4511385	.5665642
#1	1.002136	.0489393	.2059015
#2	1.007718	.0491696	.2078346
#3	1.007364	.0493828	.2080230

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1126.992	33613.13	6537.781	1005.672	1684.827
Stddev	6.775	367.65	17.595	14.959	8.011
%RSD	.6011614	1.093765	.2691282	1.487481	.4754620
#1	1120.737	33246.99	6550.025	990.905	1680.020
#2	1134.189	33982.27	6517.618	1020.817	1694.074
#3	1126.050	33610.12	6545.701	1005.295	1680.386

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4932-05 Acquired: 12/03/2024 2:11:03 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHQ3 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1453208	-.004177	9.698123	-.013884	.0327832	67.66245
Stddev	.0039528	.002322	.078161	.008126	.0031733	1.69061
%RSD	2.720031	55.58477	.8059385	58.52570	9.679743	2.498589
#1	.1442411	-.006459	9.613992	-.017260	.0347812	66.57325
#2	.1420201	-.001817	9.768483	-.004615	.0291241	69.61005
#3	.1497012	-.004255	9.711893	-.019778	.0344443	66.80406

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.925302	.0059572	.0406507	201.7330	.2054745	.1086725
Stddev	.094760	.0001394	.0004391	4.7944	.0012675	.0006253
%RSD	2.414070	2.339469	1.080160	2.376613	.6168714	.5753799
#1	3.867210	.0058777	.0401486	198.8113	.2041923	.1079576
#2	4.034649	.0058758	.0408403	207.2662	.2067268	.1091176
#3	3.874046	.0061181	.0409630	199.1214	.2055043	.1089423

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	10.73722	247.2935	12.26098	34.94081	.2689988	-.014797
Stddev	.25100	5.7459	.27897	.94069	.0028848	.000696
%RSD	2.337705	2.323513	2.275303	2.692248	1.072434	4.704924
#1	10.58155	243.5362	12.09515	34.35928	.2658068	-.014511
#2	11.02678	253.9079	12.58306	36.02610	.2714198	-.015591
#3	10.60333	244.4364	12.10472	34.43705	.2697697	-.014290

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.650466	.2115679	8.141575	8.205581	F 15.52394	.0985107
Stddev	.155423	.0076675	.057202	.212214	.15432	.0032049
%RSD	5.863983	3.624122	.7025894	2.586216	.9940486	3.253391
#1	2.826527	.2060587	8.078119	8.003924	15.36721	.0964714
#2	2.532300	.2203248	8.189180	8.426974	15.67572	.1022048
#3	2.592571	.2083204	8.157426	8.185845	15.52890	.0968558

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4932-05 Acquired: 12/03/2024 2:11:03 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHQ3 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0073309	3.736989	5.642136	.4018851	1.309156	.0731532
Stddev	.0007663	.040788	.116372	.0072253	.030561	.0031036
%RSD	10.45295	1.091460	2.062556	1.797845	2.334443	4.242616
#1	.0074499	3.689903	5.543873	.3936410	1.289011	.0704481
#2	.0065121	3.761438	5.770645	.4048975	1.344321	.0765415
#3	.0080307	3.759626	5.611890	.4071166	1.294135	.0724699

Elem	Sr4077
Units	ppm
Avg	.5896203
Stddev	.0130287
%RSD	2.209673
#1	.5810514
#2	.6046135
#3	.5831960

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1119.746	34064.24	6496.291	1010.083	1629.022
Stddev	9.526	93.31	129.401	5.083	13.771
%RSD	.8507141	.2739234	1.991920	.5032437	.8453652
#1	1128.362	34144.63	6571.154	1013.889	1642.852
#2	1109.516	33961.92	6346.872	1004.310	1615.310
#3	1121.359	34086.16	6570.847	1012.050	1628.905

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4932-06 Acquired: 12/03/2024 2:15:25 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHQ4 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1865486	-.005426	13.91416	-.012652	.0504091	73.19032
Stddev	.0029699	.002384	.40866	.008438	.0038046	.49991
%RSD	1.592027	43.93636	2.937029	66.69301	7.547467	.6830336
#1	.1854869	-.004252	14.27963	-.018049	.0474035	73.76072
#2	.1842555	-.008170	13.98995	-.016978	.0546867	72.82829
#3	.1899035	-.003857	13.47291	-.002928	.0491370	72.98196

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.412691	.0071084	.0373168	167.0844	.2859113	.0915700
Stddev	.046064	.0001609	.0011700	1.2598	.0019461	.0030689
%RSD	.7183239	2.263495	3.135404	.7539679	.6806794	3.351372
#1	6.458843	.0070215	.0382813	168.2204	.2875962	.0945712
#2	6.366716	.0070097	.0376540	165.7295	.2837811	.0917011
#3	6.412515	.0072941	.0360152	167.3033	.2863565	.0884377

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	12.20295	235.3713	10.14049	22.63712	.2474800	-.008151
Stddev	.08858	1.3199	.10328	.18182	.0081124	.000206
%RSD	.7259098	.5607532	1.018501	.8032056	3.277980	2.526299
#1	12.29923	236.8386	10.23761	22.78714	.2547422	-.008062
#2	12.12490	234.2809	10.03199	22.43491	.2489729	-.008004
#3	12.18472	234.9945	10.15187	22.68931	.2387249	-.008386

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.364488	.2530646	10.96383	8.250035	F 15.81408	.1231794
Stddev	.508386	.0019678	.02050	.083328	.48348	.0028823
%RSD	15.11036	.7775813	.1869538	1.010036	3.057275	2.339911
#1	3.716835	.2553257	10.96360	8.343108	16.23985	.1250729
#2	3.594941	.2517393	10.98444	8.224634	15.91390	.1198623
#3	2.781688	.2521289	10.94345	8.182363	15.28848	.1246030

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: P4932-06 Acquired: 12/03/2024 2:15:25 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHQ4 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0098564	3.983172	5.636132	.5898318	1.296412	.0708953
Stddev	.0006976	.118835	.053312	.0165693	.010931	.0000685
%RSD	7.077416	2.983429	.9459034	2.809153	.8431446	.0966052
#1	.0104210	4.088618	5.678966	.5991145	1.309032	.0709374
#2	.0090765	4.006491	5.576424	.5996788	1.289921	.0708163
#3	.0100717	3.854405	5.653005	.5707020	1.290283	.0709323

Elem	Sr4077
Units	ppm
Avg	.8213553
Stddev	.0064751
%RSD	.7883370
#1	.8282772
#2	.8154466
#3	.8203420

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1101.490	32797.46	6436.060	970.7896	1677.940
Stddev	24.455	99.66	47.971	3.7549	45.676
%RSD	2.220211	.3038749	.7453528	.3867882	2.722144
#1	1082.593	32684.88	6391.647	968.6875	1637.908
#2	1092.766	32833.13	6486.935	968.5566	1668.218
#3	1129.111	32874.39	6429.599	975.1247	1727.694

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: CCV077 Acquired: 12/03/2024 2:19:46 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV077 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.288524	5.189174	24.43303	4.979370	4.745299	395.2752
Stddev	.047929	.042424	.22796	.064781	.062428	3.4115
%RSD	.9062773	.8175544	.9330033	1.300992	1.315586	.8630732
#1	5.306343	5.196781	24.44614	4.991560	4.747848	391.4275
#2	5.234238	5.143460	24.19880	4.909359	4.681635	397.9303
#3	5.324991	5.227279	24.65416	5.037190	4.806413	396.4680

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.718679	.5200511	2.588169	396.3578	14.85607	2.473566
Stddev	.066282	.0045065	.021894	2.1399	.81701	.025801
%RSD	.6820086	.8665574	.8459422	.5399024	5.499529	1.043075
#1	9.682516	.5200715	2.591105	395.0784	15.34895	2.474039
#2	9.795177	.5245474	2.564954	398.8283	15.30628	2.447532
#3	9.678343	.5155344	2.608446	395.1668	13.91299	2.499128

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	14.73196	402.7353	14.40409	418.6270	2.440035	1.200334
Stddev	.11912	3.9350	.08464	4.1513	.021789	.068776
%RSD	.8085874	.9770780	.5875809	.9916392	.8929944	5.729760
#1	14.64117	398.8965	14.37058	414.5275	2.440225	1.239515
#2	14.86684	406.7600	14.50035	422.8282	2.418151	1.240566
#3	14.68787	402.5495	14.34133	418.5254	2.461729	1.120920

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	400.1177	2.463089	13.67013	150.4962	5.121295	4.527090
Stddev	2.7726	.008910	.88355	1.4657	.037637	.040057
%RSD	.6929429	.3617319	6.463349	.9738976	.7349155	.8848256
#1	397.4312	2.463497	14.12941	149.6217	5.121433	4.508855
#2	402.9690	2.471787	14.22944	152.1883	5.083589	4.573020
#3	399.9529	2.453982	12.65153	149.6786	5.158863	4.499395

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: CCV077 Acquired: 12/03/2024 2:19:46 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV077 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.848960	4.956191	F 3.461749	4.962373	4.954133	4.793786
Stddev	.058955	.042819	.040863	.042493	.042364	.032414
%RSD	1.215835	.8639482	1.180408	.8563066	.8551162	.6761586
#1	4.863113	4.940417	3.469364	4.959517	4.916185	4.772869
#2	4.784216	4.923497	3.498269	4.921379	4.999840	4.831124
#3	4.899551	5.004659	3.417614	5.006222	4.946375	4.777364

Elem	Sr4077
Units	ppm
Avg	4.873509
Stddev	.040306
%RSD	.8270502
#1	4.836525
#2	4.916470
#3	4.867532

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	827.1764	27083.04	5478.128	719.6499	1372.145
Stddev	8.4682	1269.44	21.997	41.2425	11.404
%RSD	1.023750	4.687230	.4015386	5.730915	.8311299
#1	825.8271	26285.77	5500.250	697.0962	1373.104
#2	836.2383	26416.42	5456.258	694.6026	1383.039
#3	819.4639	28546.92	5477.875	767.2509	1360.291

Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: CCB077 Acquired: 12/03/2024 2:24:15 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB077 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0078162	-.002108	-.002164	-.000575	.0028966	.0077448	.0011419
Stddev	.0009566	.002339	.001852	.008305	.0016909	.0072179	.0005816
%RSD	12.23905	110.9506	85.57146	1443.587	58.37591	93.19666	50.93141
#1	.0069190	.000592	-.003214	-.002747	.0009441	.0158238	.0013575
#2	.0077068	-.003429	-.003252	.008599	.0038762	.0054790	.0004833
#3	.0088228	-.003487	-.000026	-.007578	.0038695	.0019317	.0015848

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001071	-.000035	.0034183	.0007770	-.000048	.0015754	.0119350
Stddev	.0001003	.000030	.0051117	.0006892	.000252	.0009766	.0126505
%RSD	93.63656	85.80254	149.5381	88.70221	525.9634	61.99165	105.9946
#1	.0000032	-.000047	.0048986	.0000160	-.000026	.0023207	.0093788
#2	.0002034	-.000001	-.002270	.0013591	-.000310	.0004698	.0007578
#3	.0001148	-.000057	.007626	.0009558	.000192	.0019359	.0256683

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0004995	-.010972	.0007124	.0004724	.0943017	-.001881	.0005404
Stddev	.0005216	.023448	.0004922	.0004489	.0793320	.005988	.0003009
%RSD	104.4310	213.7046	69.09988	95.02811	84.12580	318.3618	55.67878
#1	-.000080	-.022966	.0004282	.0004670	.1848500	-.003287	.0002046
#2	.000646	-.025997	.0004281	.0009241	.0610407	-.007041	.0006312
#3	.000932	.016047	.0012807	.0000263	.0370142	.004685	.0007854

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.555413	.0004205	-.001261	.0003081	.0058006	.0002688	-.000692
Stddev	.135775	.0029450	.000935	.0002967	.0004729	.0005510	.002648
%RSD	24.44568	700.4087	74.16526	96.29829	8.153383	204.9820	382.7717
#1	-.404096	-.002927	-.000194	.0003700	.0063462	.0008647	.001446
#2	-.595548	.002611	-.001650	.0005688	.0055493	.0001641	-.003655
#3	-.666596	.001577	-.001940	-.000015	.0055064	-.000222	.000133

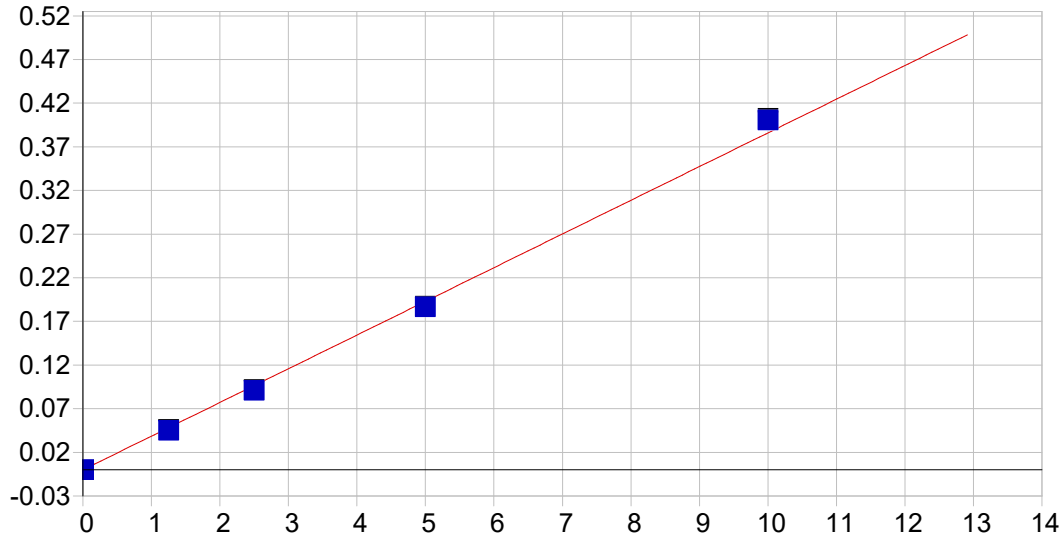
Reviewed By:kareem
On:12/5/2024 8:14:16 PM
Inst Id :P5

Sample Name: CCB077 Acquired: 12/03/2024 2:24:15 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v757) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB077 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0006341	-.010102	.0001861
Stddev	.0013402	.001665	.0000689
%RSD	211.3360	16.47910	37.01185
#1	-.000067	-.008425	.0002631
#2	-.000210	-.011754	.0001649
#3	.002179	-.010128	.0001303

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1033.923	30222.62	5663.291	911.7366	1933.060
Stddev	2.340	159.67	6.221	1.9695	1.795
%RSD	.2262823	.5283112	.1098554	.2160145	.0928414
#1	1036.544	30076.31	5657.068	912.1662	1934.784
#2	1033.178	30198.62	5663.293	909.5877	1933.193
#3	1032.046	30392.93	5669.511	913.4558	1931.202

Reviewed By:Jaswal
On:12/14/2024 4:08:47 AM
Inst Id :P5



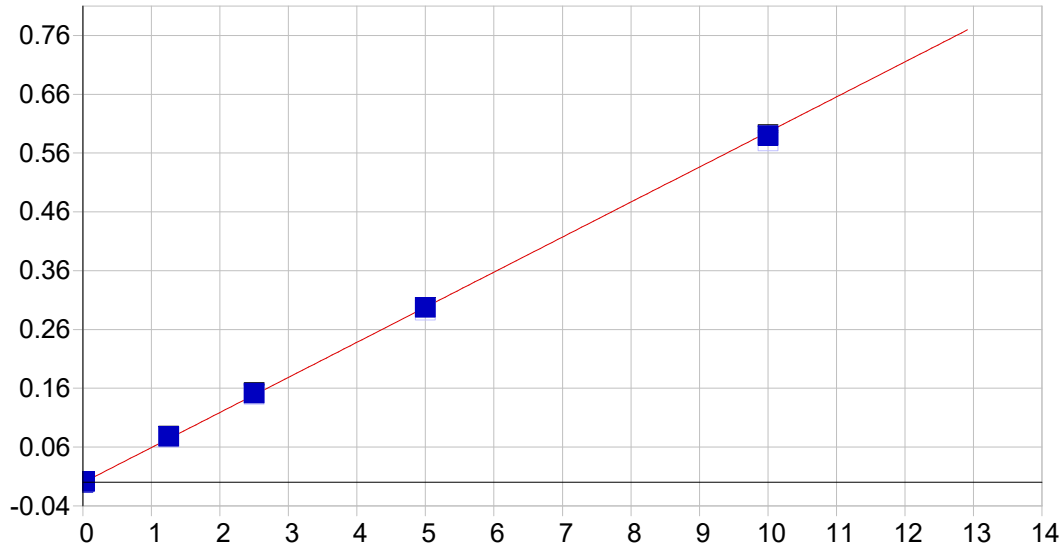
As 189.042 {479}

Date of Fit:	12/04/2024 5:57:49	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000076	Re-Slope:	1.000000
A1 (Gain):	0.038603	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999119	Status:	OK.
Std Error of Est:	0.000027		
Predicted MDL:	0.007216		
Predicted MQL:	0.024053		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	-.00008	.000	1
S1	.01000	.00794	-.002	-20.6	.00023	.000	1
S2	1.2500	1.1715	-.079	-6.28	.04507	.001	1
S3	2.5000	2.3592	-.141	-5.63	.09084	.001	1
S4	5.0000	4.8397	-.160	-3.21	.18644	.001	1
S5	10.000	10.382	.382	3.82	.40006	.002	1

Reviewed By:Jaswal
On:12/14/2024 4:08:47 AM
Inst Id :P5



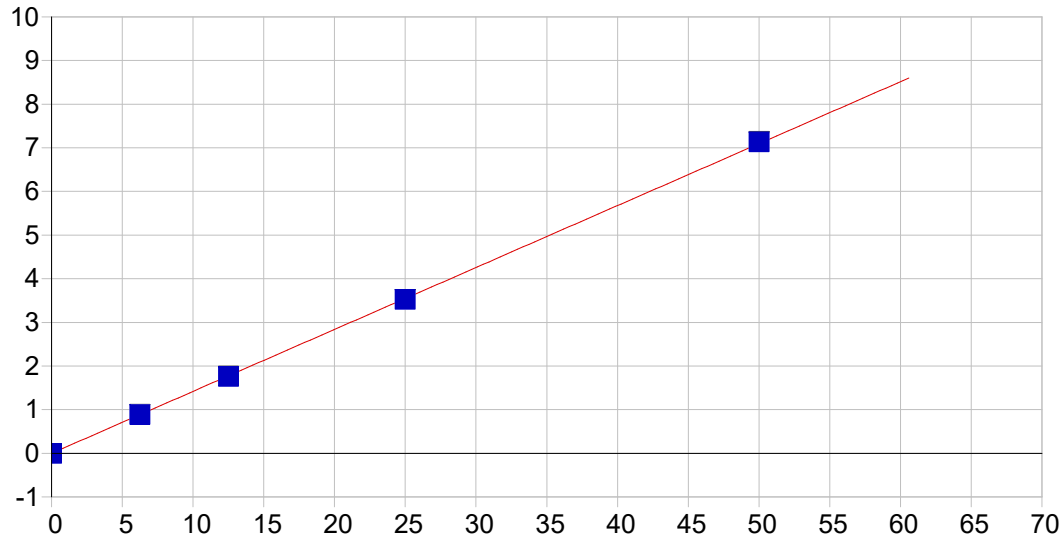
Tl 190.856 {477}

Date of Fit:	12/04/2024 5:57:49	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000314	Re-Slope:	1.000000
A1 (Gain):	0.059623	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999813	Status:	OK.
Std Error of Est:	0.000030		
Predicted MDL:	0.003264		
Predicted MQL:	0.010879		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00001	-.000	.000	-.00031	.000	1
S1	.02500	.03172	.007	26.9	.00152	.000	1
S2	1.2500	1.3111	.061	4.88	.07670	.001	1
S3	2.5000	2.5465	.046	1.86	.14921	.001	1
S4	5.0000	4.9927	-.007	-.145	.29275	.000	1
S5	10.000	9.8932	-.107	-1.07	.58032	.001	1

Reviewed By:Jaswal
On:12/14/2024 4:08:47 AM
Inst Id :P5



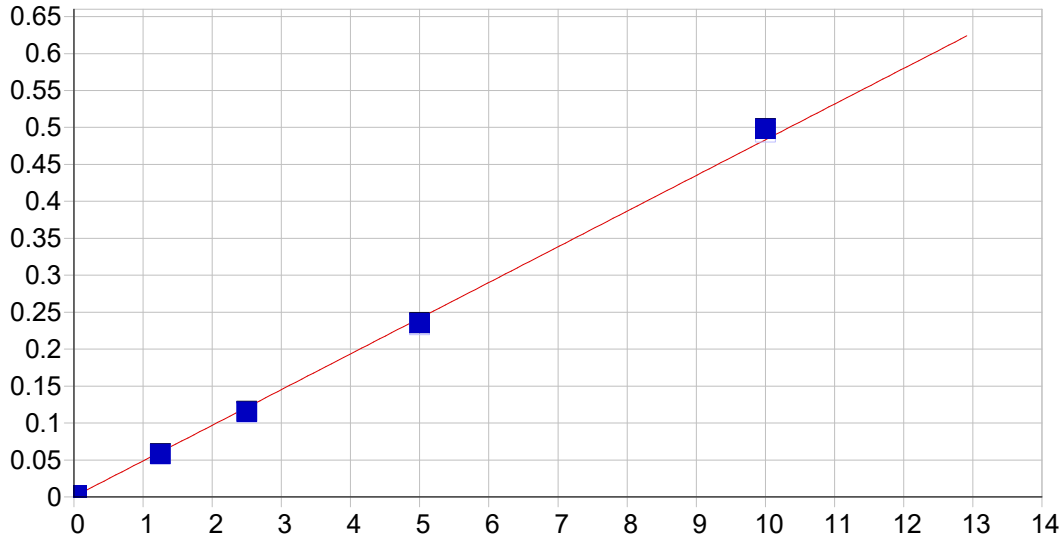
Pb 220.353 {453}

Date of Fit:	12/04/2024 5:57:49	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000641	Re-Slope:	1.000000
A1 (Gain):	0.141913	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999981	Status:	OK.
Std Error of Est:	0.000033		
Predicted MDL:	0.002335		
Predicted MQL:	0.007784		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	-.00064	.000	1
S1	.01000	.00965	-.000	-3.46	.00072	.000	1
S2	6.2500	6.2596	.010	.154	.88738	.003	1
S3	12.500	12.400	-.100	-.800	1.7585	.003	1
S4	25.000	24.818	-.182	-.729	3.5201	.006	1
S5	50.000	50.273	.273	.546	7.1314	.015	1

Reviewed By:Jaswal
On:12/14/2024 4:08:47 AM
Inst Id :P5



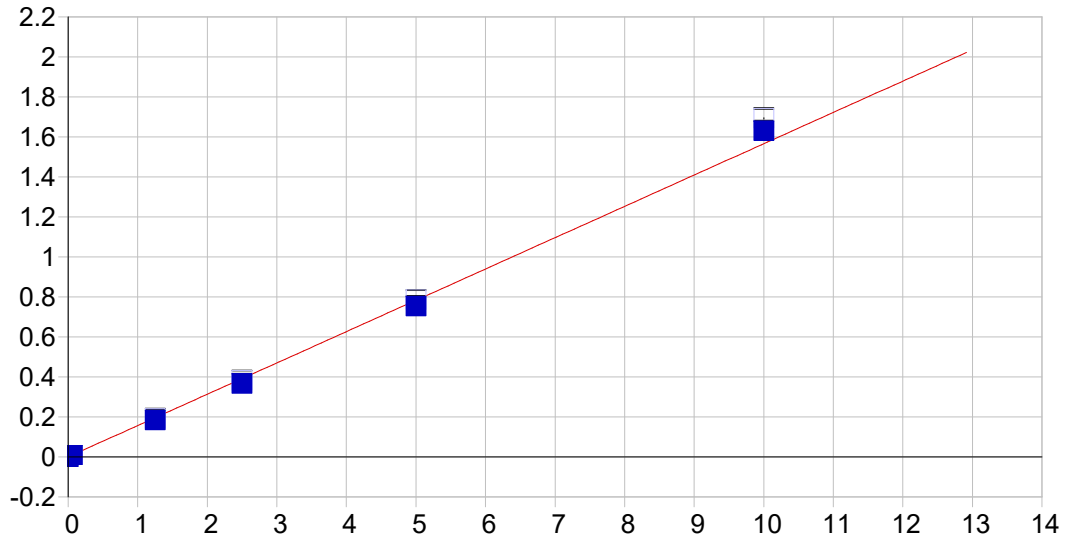
Se 196.090 {472}

Date of Fit:	12/04/2024 5:57:49	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000381	Re-Slope:	1.000000
A1 (Gain):	0.048290	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999422	Status:	OK.
Std Error of Est:	0.000051		
Predicted MDL:	0.005863		
Predicted MQL:	0.019543		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00038	.000	1
S1	.03500	.03356	-.001	-4.12	.00200	.000	1
S2	1.2500	1.1979	-.052	-4.17	.05760	.000	1
S3	2.5000	2.3792	-.121	-4.83	.11401	.001	1
S4	5.0000	4.8649	-.135	-2.70	.23277	.001	1
S5	10.000	10.309	.309	3.09	.49316	.000	1

Reviewed By:Jaswal
On:12/14/2024 4:08:47 AM
Inst Id :P5



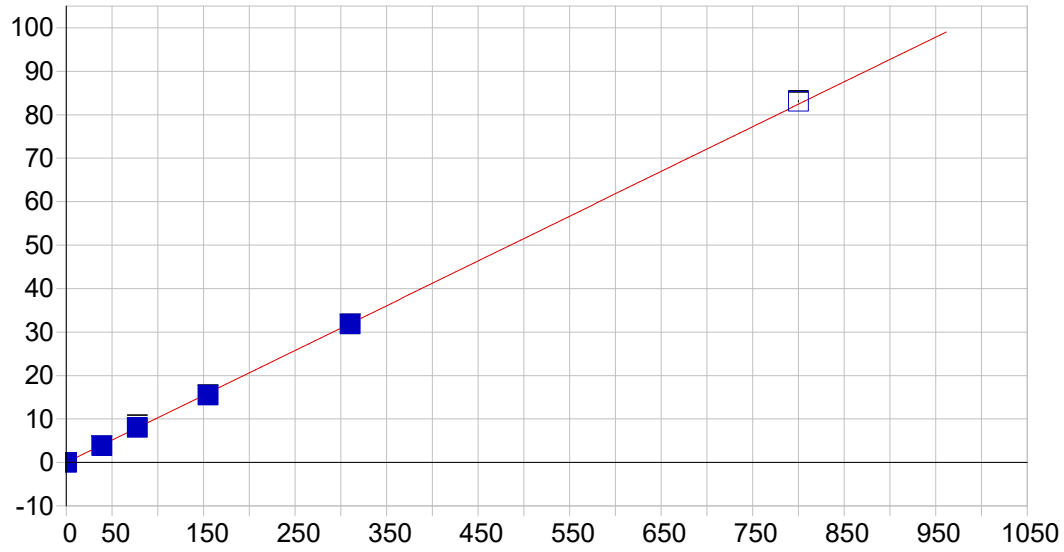
Sb 206.833 {463}

Date of Fit:	12/04/2024 5:57:49	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000256	Re-Slope:	1.000000
A1 (Gain):	0.156558	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999049	Status:	OK.
Std Error of Est:	0.000292		
Predicted MDL:	0.002496		
Predicted MQL:	0.008321		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00026	.000	1
S1	.06000	.06358	.004	5.97	.01022	.000	1
S2	1.2500	1.1765	-.073	-5.88	.19217	.001	1
S3	2.5000	2.3406	-.159	-6.38	.38213	.001	1
S4	5.0000	4.8153	-.185	-3.69	.78499	.003	1
S5	10.000	10.414	.414	4.14	1.6924	.003	1

Reviewed By:Jaswal
On:12/14/2024 4:08:47 AM
Inst Id :P5



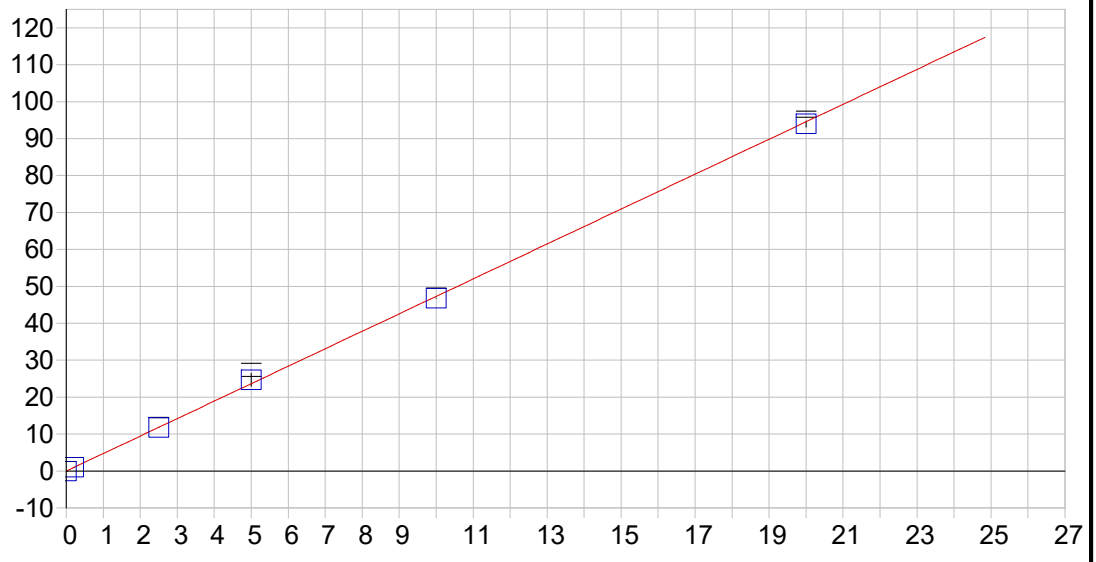
Al 396.152 { 85}

Date of Fit:	12/04/2024 5:57:49	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.001447	Re-Slope:	1.000000
A1 (Gain):	0.103020	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999901	Status:	OK.
Std Error of Est:	0.000903		
Predicted MDL:	0.008254		
Predicted MQL:	0.027512		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00001	.000	.000	-.00145	.001	1
S1	.20000	.20198	.002	.992	.01940	.000	1
S2	38.750	37.186	-1.56	-4.04	3.8338	.005	1
S3	77.500	78.243	.743	.958	8.0678	.592	1
S4	155.00	150.23	-4.77	-3.07	15.493	.044	1
S5	310.00	308.99	-1.01	-.324	31.866	.044	1
S6	800.00	806.60	6.60	.825	83.094	.174	1

Reviewed By:Jaswal
On:12/14/2024 4:08:47 AM
Inst Id :P5



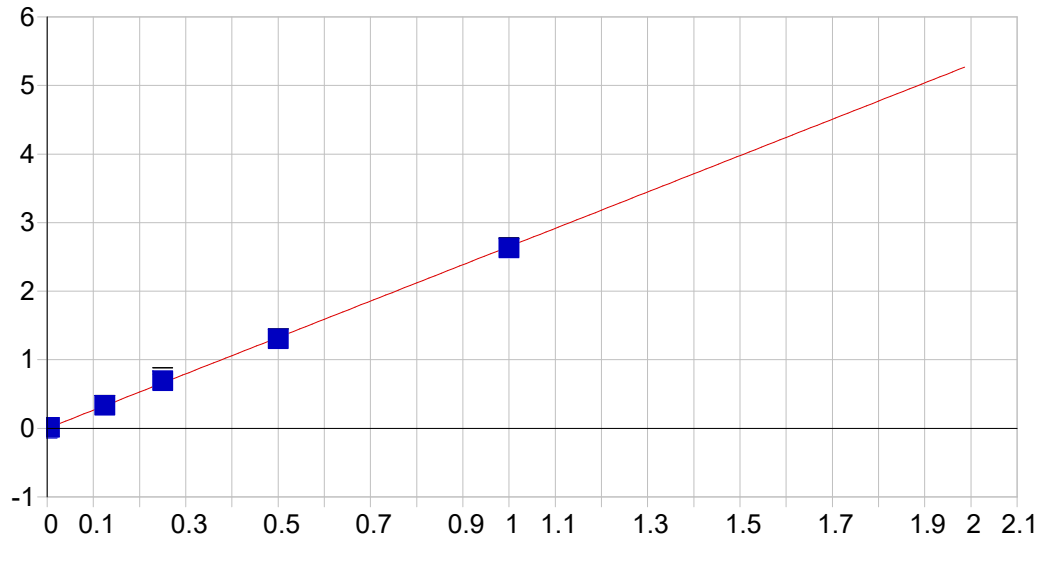
Ba 493.409 { 68}

Date of Fit:	12/04/2024 5:57:49	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.003246	Re-Slope:	1.000000
A1 (Gain):	4.727997	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999816	Status:	OK.
Std Error of Est:	0.009638		
Predicted MDL:	0.000432		
Predicted MQL:	0.001440		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00003	-.000	.000	-.00337	.001	1
S1	.20000	.22113	.021	10.6	1.0422	.003	1
S2	2.5000	2.4910	-.009	-.361	11.774	.024	1
S3	5.0000	5.2203	.220	4.41	24.678	1.77	1
S4	10.000	9.8980	-.102	-1.02	46.794	.071	1
S5	20.000	19.870	-.130	-.652	93.940	.827	1

Reviewed By:Jaswal
On:12/14/2024 4:08:47 AM
Inst Id :P5



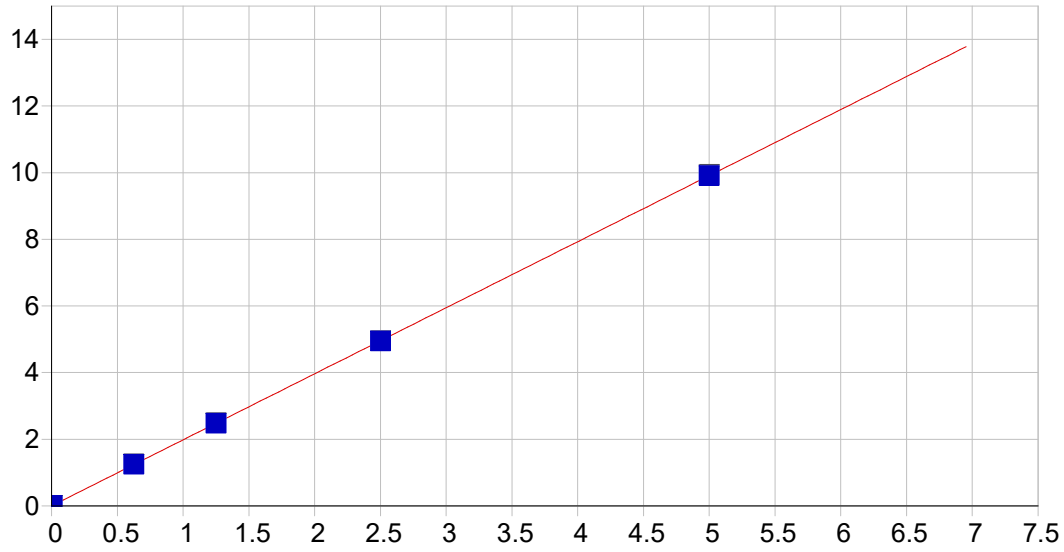
Be 234.861 {144}

Date of Fit:	12/04/2024 5:57:49	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000643	Re-Slope:	1.000000
A1 (Gain):	2.651855	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999759	Status:	OK.
Std Error of Est:	0.000218		
Predicted MDL:	0.000095		
Predicted MQL:	0.000318		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00065	.000	1
S1	.00500	.00587	.001	17.4	.01491	.001	1
S2	.12500	.12650	.001	1.20	.33329	.001	1
S3	.25000	.26199	.012	4.79	.69106	.046	1
S4	.50000	.49282	-.007	-1.44	1.3002	.003	1
S5	1.0000	.99282	-.007	-.718	2.6200	.004	1

Reviewed By:Jaswal
On:12/14/2024 4:08:47 AM
Inst Id :P5



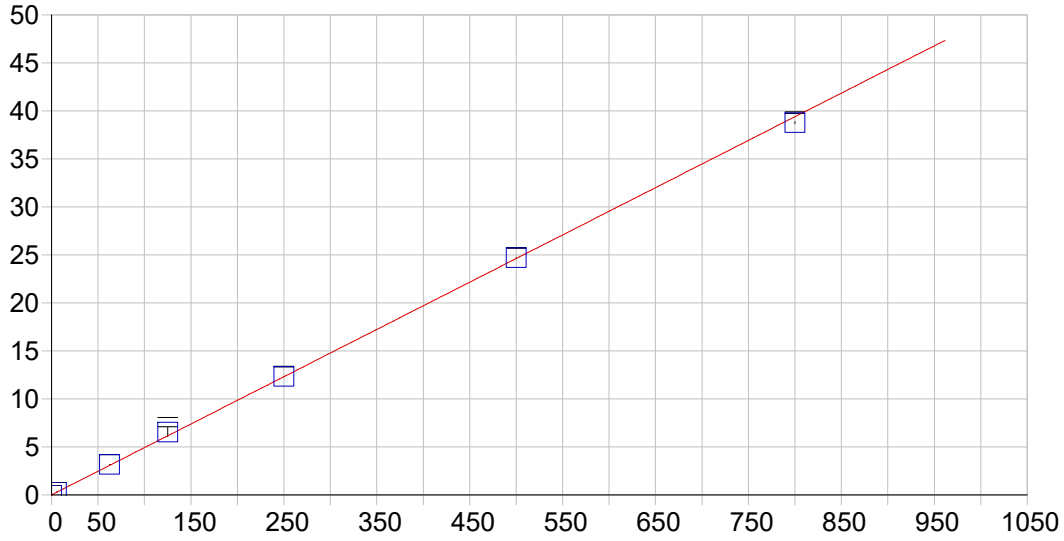
Cd 214.438 {457}

Date of Fit:	12/04/2024 5:57:49	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000524	Re-Slope:	1.000000
A1 (Gain):	1.982247	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999997	Status:	OK.
Std Error of Est:	0.000041		
Predicted MDL:	0.000115		
Predicted MQL:	0.000383		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00052	.000	1
S1	.00500	.00532	.000	6.42	.01111	.000	1
S2	.62500	.62912	.004	.659	1.2495	.003	1
S3	1.2500	1.2508	.001	.061	2.4836	.006	1
S4	2.5000	2.4956	-.004	-.176	4.9550	.008	1
S5	5.0000	4.9992	-.001	-.016	9.9254	.019	1

Reviewed By:Jaswal
On:12/14/2024 4:08:47 AM
Inst Id :P5



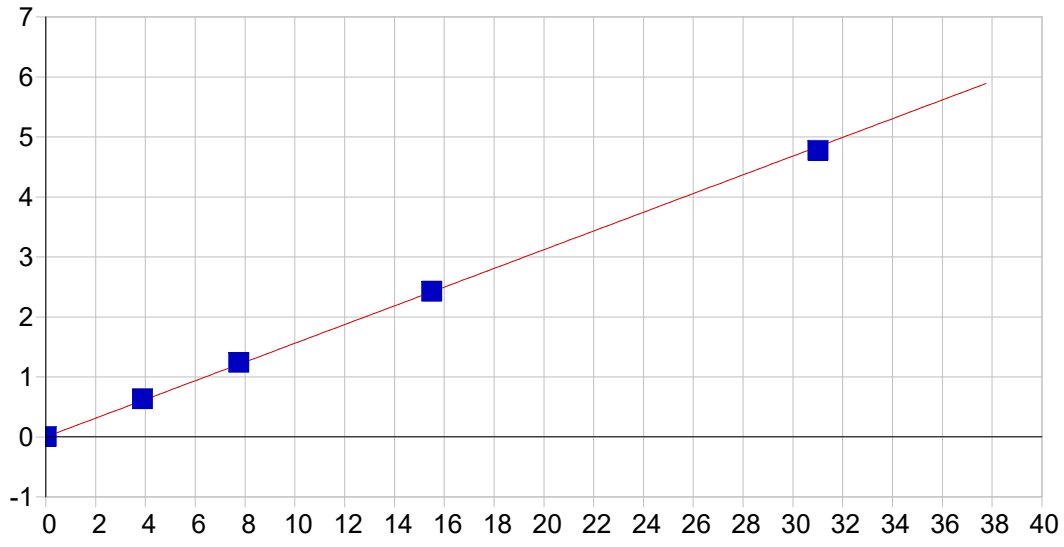
Ca 373.690 { 90}

Date of Fit:	12/04/2024 5:57:49	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.003117	Re-Slope:	1.000000
A1 (Gain):	0.049238	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999748	Status:	OK.
Std Error of Est:	0.003861		
Predicted MDL:	0.013428		
Predicted MQL:	0.044759		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00126	-.001	.000	.00306	.000	1
S1	5.0000	5.8676	.868	17.4	.29203	.001	1
S2	62.500	64.073	1.57	2.52	3.1579	.007	1
S3	125.00	132.82	7.82	6.26	6.5429	.478	1
S4	250.00	250.49	.494	.198	12.337	.035	1
S5	500.00	501.68	1.68	.336	24.705	.033	1
S6	800.00	787.57	-12.4	-1.55	38.781	.078	1

Reviewed By:Jaswal
On:12/14/2024 4:08:47 AM
Inst Id :P5



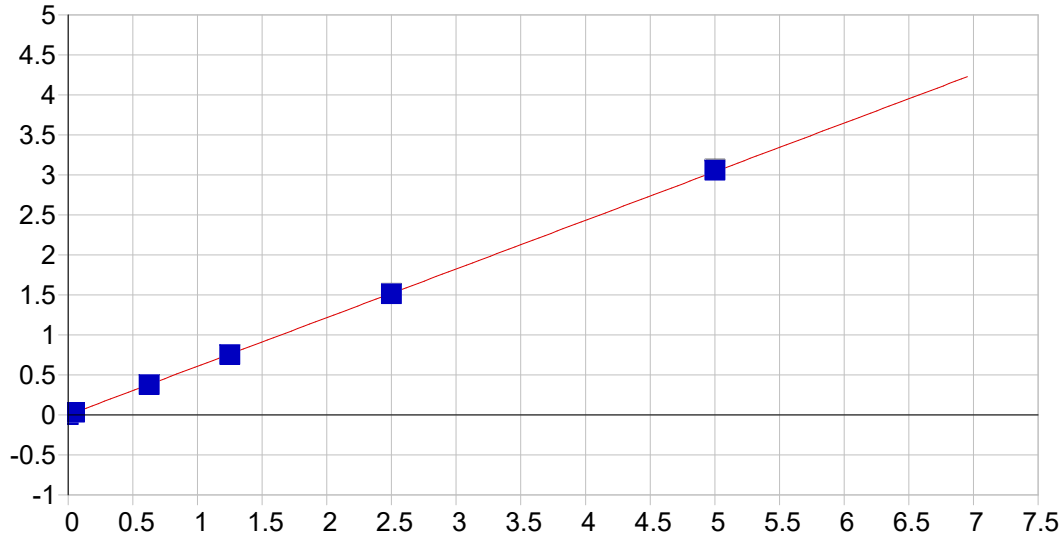
Cr 267.716 {126}

Date of Fit:	12/04/2024 5:57:49	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000016	Re-Slope:	1.000000
A1 (Gain):	0.156005	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999820	Status:	OK.
Std Error of Est:	0.000087		
Predicted MDL:	0.000526		
Predicted MQL:	0.001753		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00002	.000	1
S1	.01000	.01197	.002	19.7	.00189	.000	1
S2	3.8750	4.0673	.192	4.96	.63501	.001	1
S3	7.7500	7.9481	.198	2.56	1.2409	.002	1
S4	15.500	15.534	.034	.218	2.4252	.002	1
S5	31.000	30.574	-.426	-1.38	4.7734	.001	1

Reviewed By:Jaswal
On:12/14/2024 4:08:47 AM
Inst Id :P5



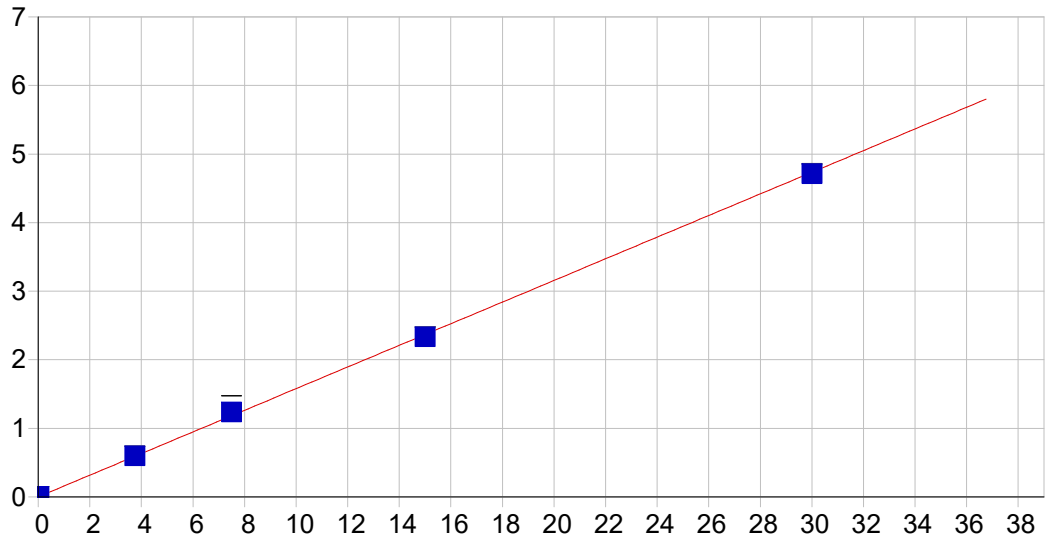
Co 228.616 {448}

Date of Fit:	12/04/2024 5:57:49	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000166	Re-Slope:	1.000000
A1 (Gain):	0.608002	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999969	Status:	OK.
Std Error of Est:	0.000128		
Predicted MDL:	0.000379		
Predicted MQL:	0.001264		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00017	.000	1
S1	.05000	.05327	.003	6.54	.03232	.000	1
S2	.62500	.62043	-.005	-.732	.37828	.001	1
S3	1.2500	1.2368	-.013	-1.05	.75428	.002	1
S4	2.5000	2.4876	-.012	-.496	1.5172	.002	1
S5	5.0000	5.0269	.027	.538	3.0660	.008	1

Reviewed By:Jaswal
On:12/14/2024 4:08:47 AM
Inst Id :P5



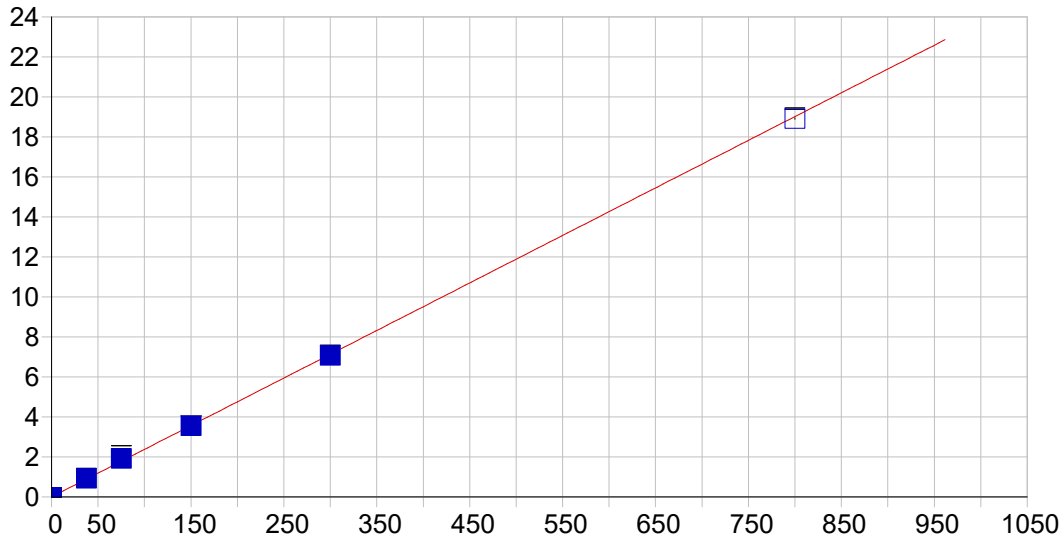
Cu 324.754 {104}

Date of Fit:	12/04/2024 5:57:49	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.001157	Re-Slope:	1.000000
A1 (Gain):	0.157789	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999824	Status:	OK.
Std Error of Est:	0.000136		
Predicted MDL:	0.002592		
Predicted MQL:	0.008639		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00116	.000	1
S1	.02500	.02824	.003	13.0	.00561	.000	1
S2	3.7500	3.7685	.018	.493	.59572	.001	1
S3	7.5000	7.8409	.341	4.55	1.2382	.091	1
S4	15.000	14.786	-.214	-1.42	2.3340	.003	1
S5	30.000	29.851	-.149	-.497	4.7108	.007	1

Reviewed By:Jaswal
On:12/14/2024 4:08:47 AM
Inst Id :P5



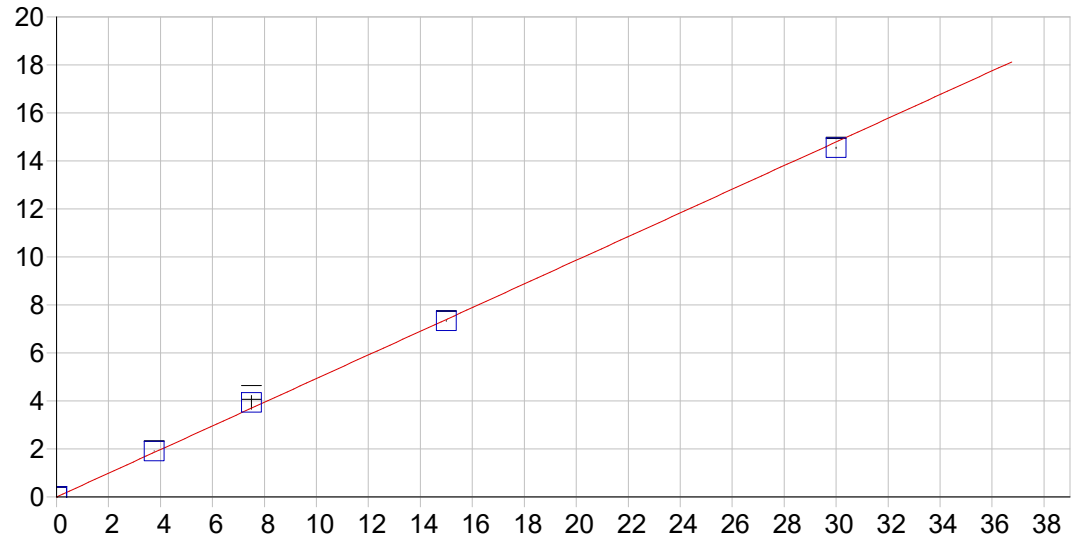
Fe 259.837 {130}

Date of Fit:	12/04/2024 5:57:49	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000422	Re-Slope:	1.000000
A1 (Gain):	0.023774	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999804	Status:	OK.
Std Error of Est:	0.000205		
Predicted MDL:	0.009129		
Predicted MQL:	0.030430		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00002	-.000	.000	.00042	.000	1
S1	.10000	.10917	.009	9.17	.00302	.000	1
S2	37.500	39.035	1.53	4.09	.92863	.001	1
S3	75.000	80.650	5.65	7.53	1.9182	.142	1
S4	150.00	149.51	-.493	-.328	3.5556	.015	1
S5	300.00	297.54	-2.46	-.820	7.0756	.008	1
S6	800.00	795.76	-4.24	-.530	18.919	.042	1

Reviewed By:Jaswal
On:12/14/2024 4:08:47 AM
Inst Id :P5



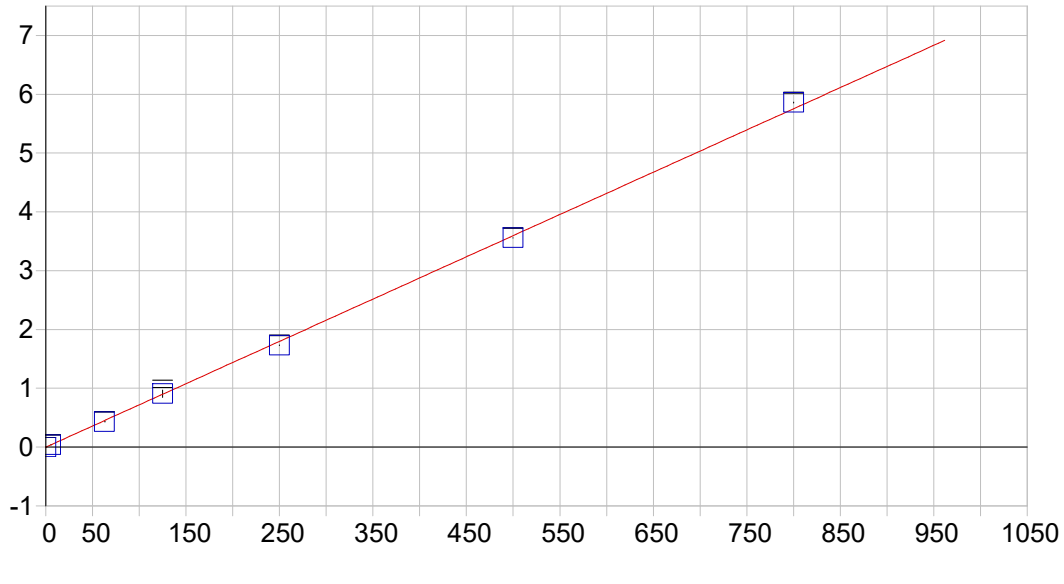
Mn 257.610 {131}

Date of Fit:	12/04/2024 5:57:49	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000198	Re-Slope:	1.000000
A1 (Gain):	0.493009	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999592	Status:	OK.
Std Error of Est:	0.000501		
Predicted MDL:	0.000480		
Predicted MQL:	0.001600		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00001	-.000	.000	.00020	.000	1
S1	.01500	.01907	.004	27.1	.00960	.000	1
S2	3.7500	3.8798	.130	3.46	1.9130	.004	1
S3	7.5000	7.9828	.483	6.44	3.9358	.288	1
S4	15.000	14.884	-.116	-.773	7.3381	.012	1
S5	30.000	29.499	-.501	-1.67	14.544	.029	1

Reviewed By:Jaswal
On:12/14/2024 4:08:47 AM
Inst Id :P5



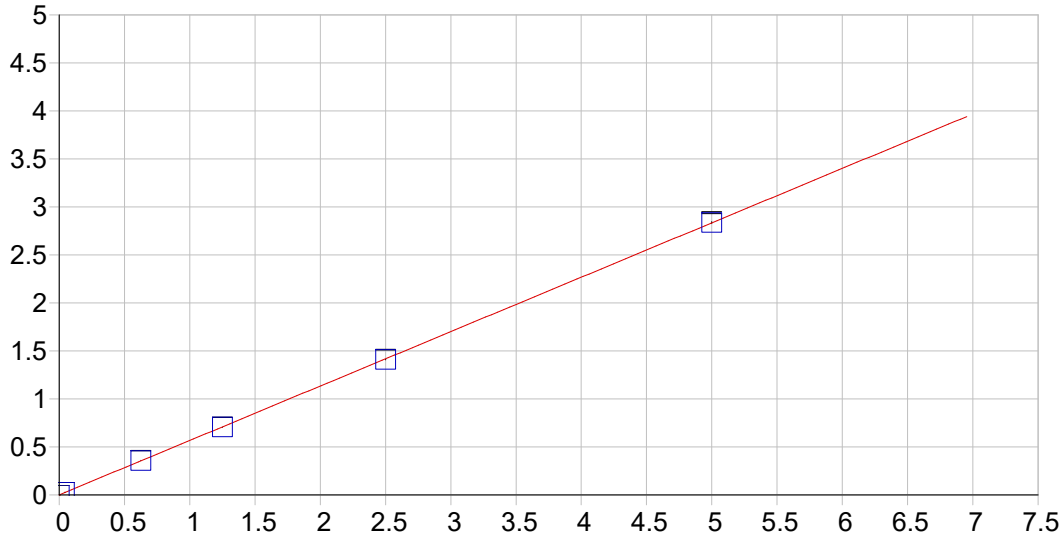
Mg 279.079 {121}

Date of Fit:	12/04/2024 5:57:49	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000376	Re-Slope:	1.000000
A1 (Gain):	0.007193	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999771	Status:	OK.
Std Error of Est:	0.000538		
Predicted MDL:	0.031997		
Predicted MQL:	0.106655		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00014	-.000	.000	-.00038	.000	1
S1	5.0000	5.4282	.428	8.56	.03867	.000	1
S2	62.500	59.949	-2.55	-4.08	.43081	.001	1
S3	125.00	126.29	1.29	1.03	.90798	.065	1
S4	250.00	241.13	-8.87	-3.55	1.7340	.005	1
S5	500.00	494.82	-5.18	-1.04	3.5586	.002	1
S6	800.00	814.88	14.9	1.86	5.8607	.007	1

Reviewed By:Jaswal
On:12/14/2024 4:08:47 AM
Inst Id :P5



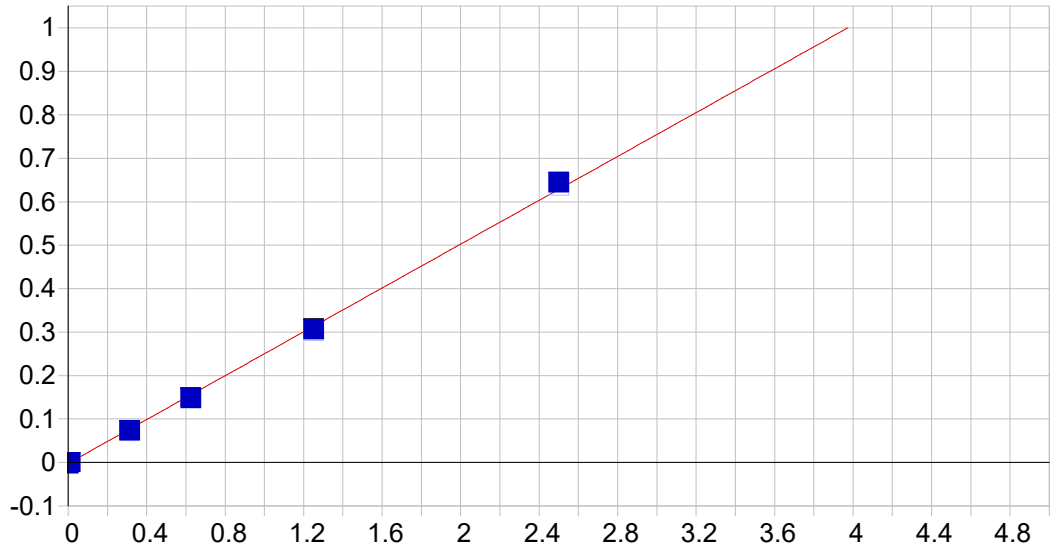
Ni 231.604 {446}

Date of Fit:	12/04/2024 5:57:49	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000413	Re-Slope:	1.000000
A1 (Gain):	0.566770	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999949	Status:	OK.
Std Error of Est:	0.000136		
Predicted MDL:	0.000516		
Predicted MQL:	0.001721		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00001	-.000	.000	.00041	.000	1
S1	.04000	.04574	.006	14.4	.02634	.000	1
S2	.62500	.63038	.005	.861	.35769	.001	1
S3	1.2500	1.2455	-.005	-.364	.70630	.002	1
S4	2.5000	2.4875	-.012	-.498	1.4103	.003	1
S5	5.0000	5.0059	.006	.118	2.8376	.009	1

Reviewed By:Jaswal
On:12/14/2024 4:08:47 AM
Inst Id :P5



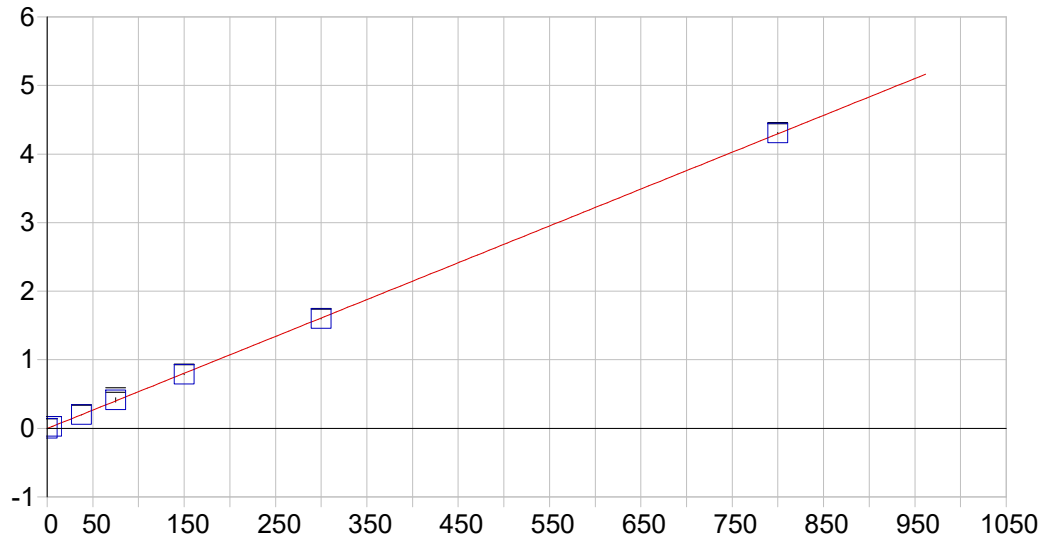
Ag 328.068 {103}

Date of Fit:	12/04/2024 5:57:49	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.002107	Re-Slope:	1.000000
A1 (Gain):	0.252290	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999563	Status:	OK.
Std Error of Est:	0.000062		
Predicted MDL:	0.000515		
Predicted MQL:	0.001717		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00211	.000	1
S1	.01000	.01099	.001	9.86	.00066	.000	1
S2	.31250	.29973	-.013	-4.09	.07257	.000	1
S3	.62500	.59768	-.027	-4.37	.14679	.000	1
S4	1.2500	1.2244	-.026	-2.05	.30302	.001	1
S5	2.5000	2.5647	.065	2.59	.63737	.000	1

Reviewed By:Jaswal
On:12/14/2024 4:08:47 AM
Inst Id :P5



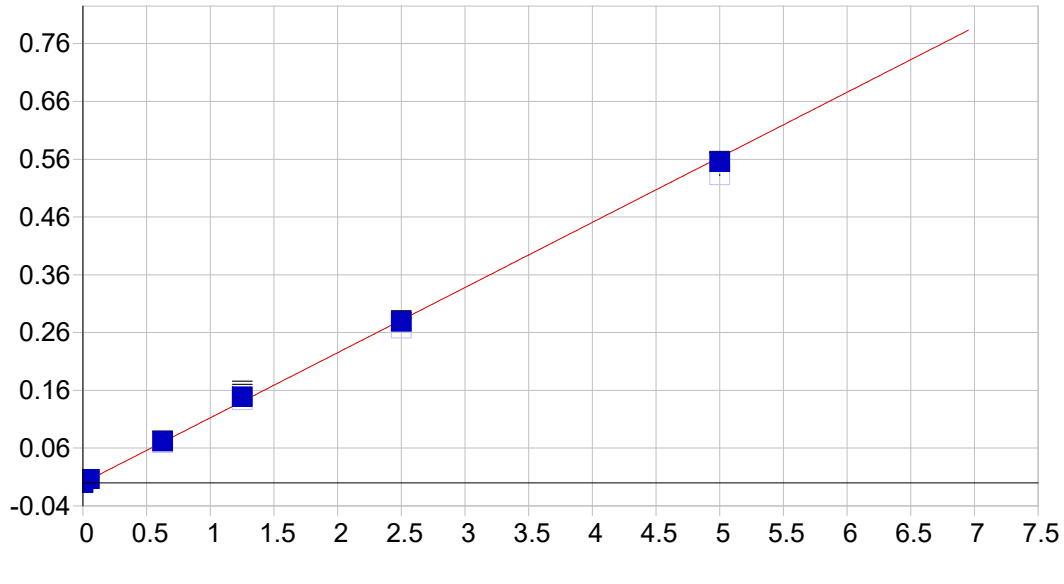
Na 818.326 { 41}

Date of Fit: 12/04/2024 5:57:49 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset):	-0.003011	Re-Slope:	1.000000
A1 (Gain):	0.005373	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999933	Status:	OK.
Std Error of Est:	0.000193		
Predicted MDL:	0.267112		
Predicted MQL:	0.890373		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00036	-.000	.000	-.00301	.001	1
S1	5.0000	5.3270	.327	6.54	.02561	.001	1
S2	37.500	37.277	-.223	-.594	.19728	.001	1
S3	75.000	77.608	2.61	3.48	.41397	.030	1
S4	150.00	147.09	-2.91	-1.94	.78727	.003	1
S5	300.00	298.33	-1.67	-.557	1.5999	.004	1
S6	800.00	801.87	1.87	.234	4.3054	.008	1

Reviewed By:Jaswal
On:12/14/2024 4:08:47 AM
Inst Id :P5



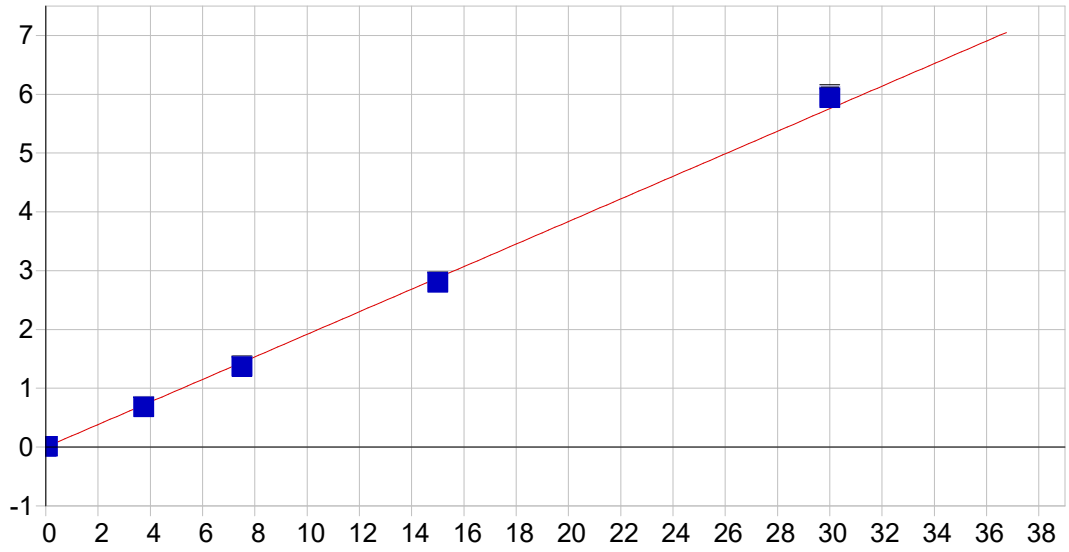
V 292.402 {115}

Date of Fit:	12/04/2024 5:57:49	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000196	Re-Slope:	1.000000
A1 (Gain):	0.112692	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999592	Status:	OK.
Std Error of Est:	0.000082		
Predicted MDL:	0.002865		
Predicted MQL:	0.009549		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00001	-.000	.000	-.00020	.000	1
S1	.05000	.05840	.008	16.8	.00637	.000	1
S2	.62500	.63970	.015	2.35	.06907	.000	1
S3	1.2500	1.3215	.071	5.72	.14308	.010	1
S4	2.5000	2.4761	-.024	-.955	.26755	.002	1
S5	5.0000	4.9290	-.071	-1.42	.53268	.001	1

Reviewed By:Jaswal
On:12/14/2024 4:08:47 AM
Inst Id :P5



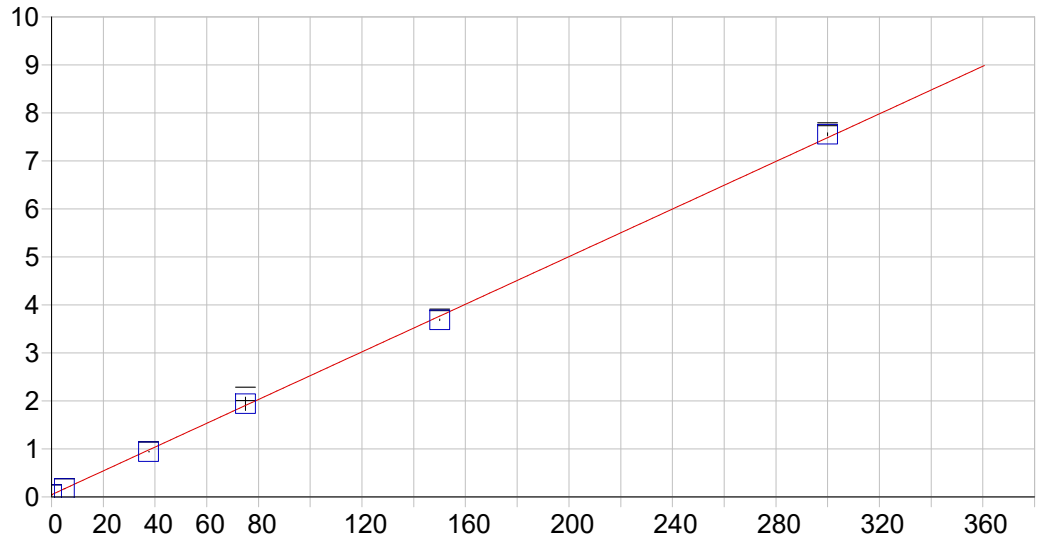
Zn 213.856 {158}

Date of Fit:	12/04/2024 5:57:49	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000163	Re-Slope:	1.000000
A1 (Gain):	0.191838	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999354	Status:	OK.
Std Error of Est:	0.000493		
Predicted MDL:	0.003980		
Predicted MQL:	0.013266		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00001	-.000	.000	-.00016	.001	1
S1	.06000	.07302	.013	21.7	.01388	.001	1
S2	3.7500	3.5585	-.192	-5.11	.68601	.004	1
S3	7.5000	7.1359	-.364	-4.85	1.3758	.006	1
S4	15.000	14.575	-.425	-2.83	2.8099	.004	1
S5	30.000	30.968	.968	3.23	5.9687	.026	1

Reviewed By:Jaswal
On:12/14/2024 4:08:47 AM
Inst Id :P5



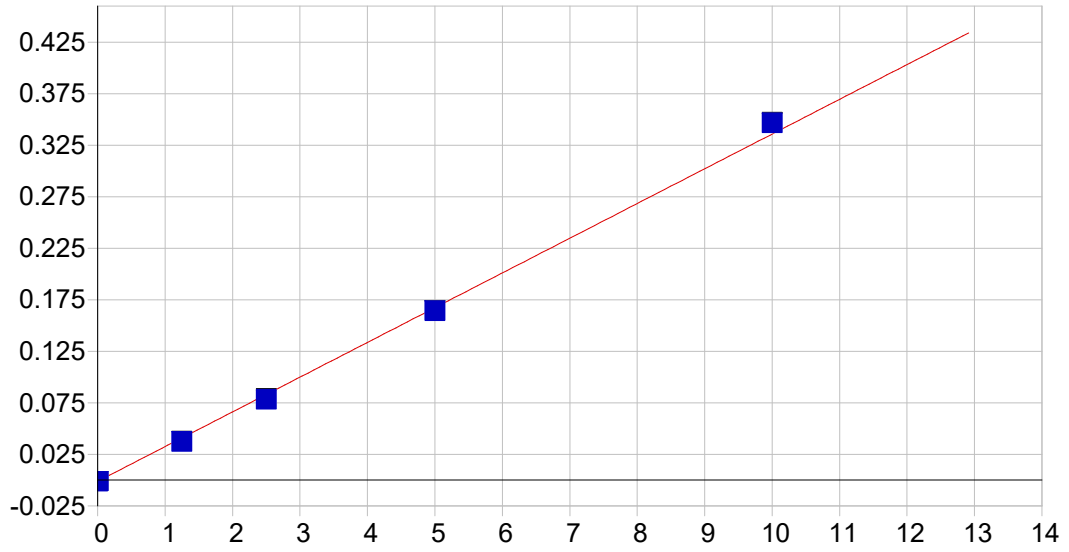
K 769.896 { 44}

Date of Fit:	12/04/2024 5:57:49	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.046215	Re-Slope:	1.000000
A1 (Gain):	0.024790	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999841	Status:	OK.
Std Error of Est:	0.000911		
Predicted MDL:	0.056747		
Predicted MQL:	0.189158		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00006	-.000	.000	.04621	.000	1
S1	5.0000	5.2156	.216	4.31	.17551	.001	1
S2	37.500	36.064	-1.44	-3.83	.94024	.003	1
S3	75.000	76.379	1.38	1.84	1.9396	.141	1
S4	150.00	146.93	-3.07	-2.04	3.6886	.015	1
S5	300.00	302.91	2.91	.969	7.5551	.031	1

Reviewed By:Jaswal
On:12/14/2024 4:08:47 AM
Inst Id :P5



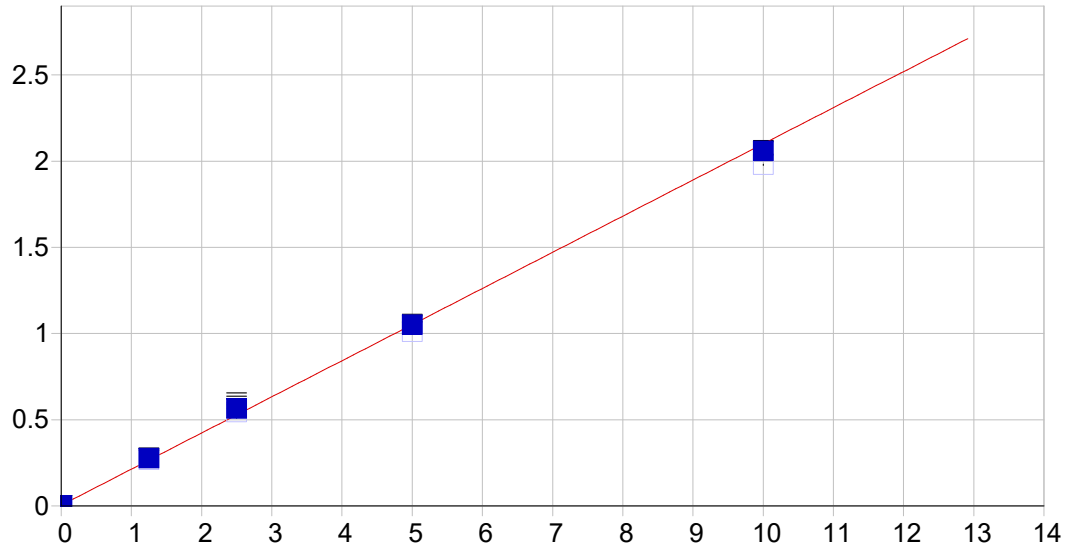
P 177.495 {490}

Date of Fit:	12/04/2024 5:57:49	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.001181	Re-Slope:	1.000000
A1 (Gain):	0.033700	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999251	Status:	OK.
Std Error of Est:	0.000022		
Predicted MDL:	0.004103		
Predicted MQL:	0.013675		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	-.00118	.000	1
S1	.01000	.01054	.001	5.44	-.00082	.000	1
S2	1.2500	1.1474	-.103	-8.21	.03743	.000	1
S3	2.5000	2.3631	-.137	-5.48	.07833	.001	1
S4	5.0000	4.9134	-.087	-1.73	.16416	.000	1
S5	10.000	10.326	.326	3.26	.34631	.000	1

Reviewed By:Jaswal
On:12/14/2024 4:08:47 AM
Inst Id :P5



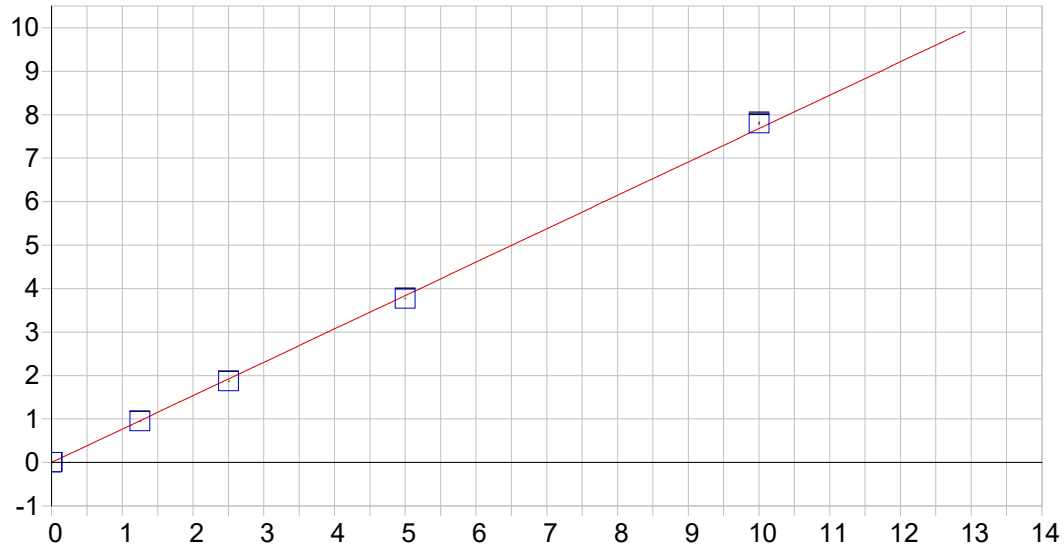
B 249.678 {135}

Date of Fit:	12/04/2024 5:57:49	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.003680	Re-Slope:	1.000000
A1 (Gain):	0.209674	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.998696	Status:	OK.
Std Error of Est:	0.000173		
Predicted MDL:	0.001339		
Predicted MQL:	0.004462		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00002	.000	.000	.00368	.000	1
S1	.01000	-.00655	-.017	-165.	.00230	.000	1
S2	1.2500	1.3021	.052	4.17	.26673	.001	1
S3	2.5000	2.6722	.172	6.89	.54403	.035	1
S4	5.0000	4.9902	-.010	-.197	1.0101	.004	1
S5	10.000	9.8026	-.197	-1.97	1.9793	.004	1

Reviewed By:Jaswal
On:12/14/2024 4:08:47 AM
Inst Id :P5



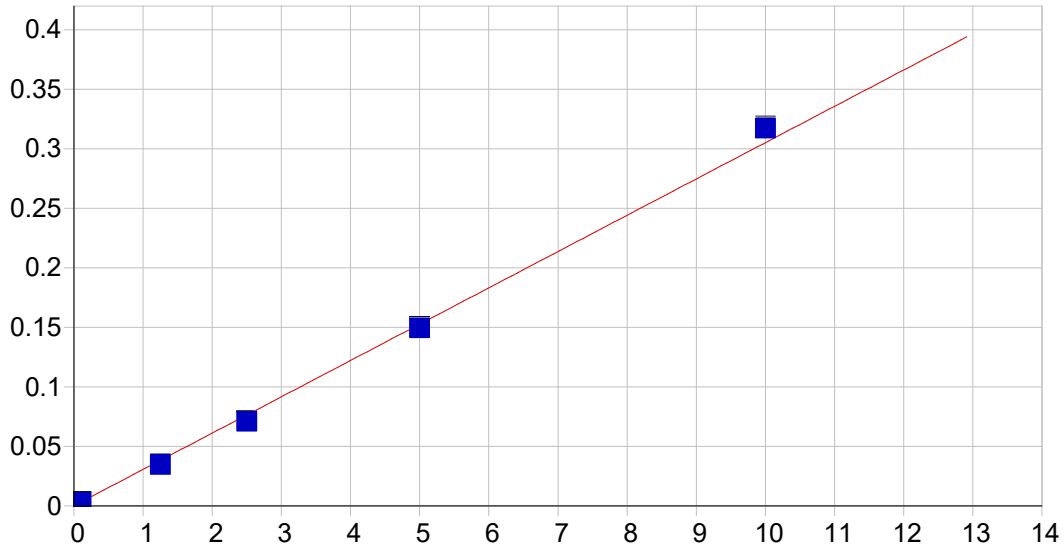
Mo 202.030 {467}

Date of Fit:	12/04/2024 5:57:49	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000021	Re-Slope:	1.000000
A1 (Gain):	0.768084	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999847	Status:	OK.
Std Error of Est:	0.000226		
Predicted MDL:	0.000447		
Predicted MQL:	0.001491		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00002	.000	1
S1	.01000	.01080	.001	8.04	.00832	.000	1
S2	1.2500	1.2385	-.011	-.918	.95132	.002	1
S3	2.5000	2.4389	-.061	-2.44	1.8733	.000	1
S4	5.0000	4.9121	-.088	-1.76	3.7729	.010	1
S5	10.000	10.160	.160	1.60	7.8035	.028	1

Reviewed By:Jaswal
On:12/14/2024 4:08:47 AM
Inst Id :P5



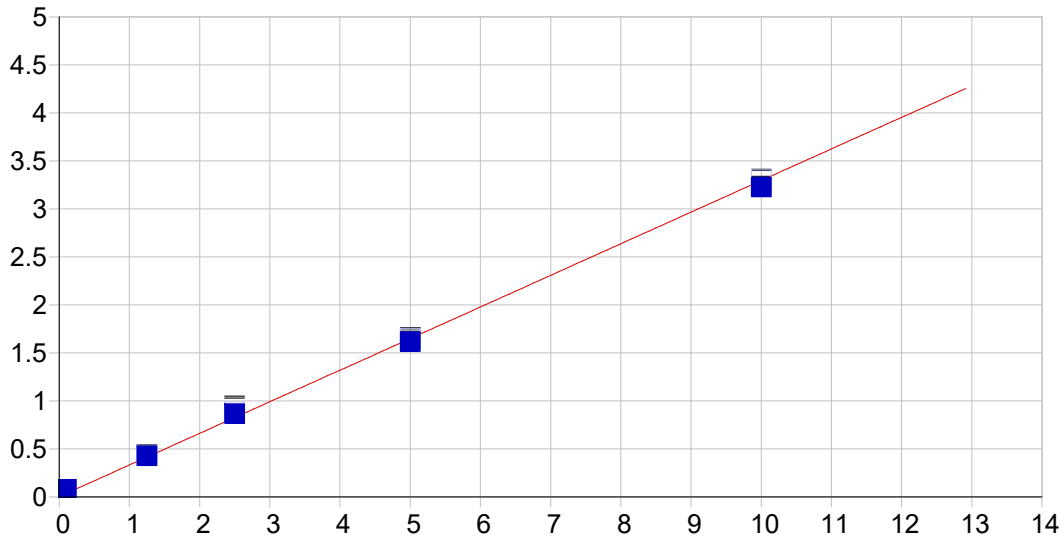
S 182.034 {485}

Date of Fit:	12/04/2024 5:57:49	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000175	Re-Slope:	1.000000
A1 (Gain):	0.030506	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.998907	Status:	OK.
Std Error of Est:	0.000076		
Predicted MDL:	0.005227		
Predicted MQL:	0.017423		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00001	.000	.000	.00018	.000	1
S1	.10000	.10320	.003	3.20	.00332	.000	1
S2	1.2500	1.1317	-.118	-9.47	.03482	.000	1
S3	2.5000	2.3228	-.177	-7.09	.07128	.000	1
S4	5.0000	4.8979	-.102	-2.04	.15008	.001	1
S5	10.000	10.395	.395	3.95	.31825	.001	1

Reviewed By:Jaswal
On:12/14/2024 4:08:47 AM
Inst Id :P5



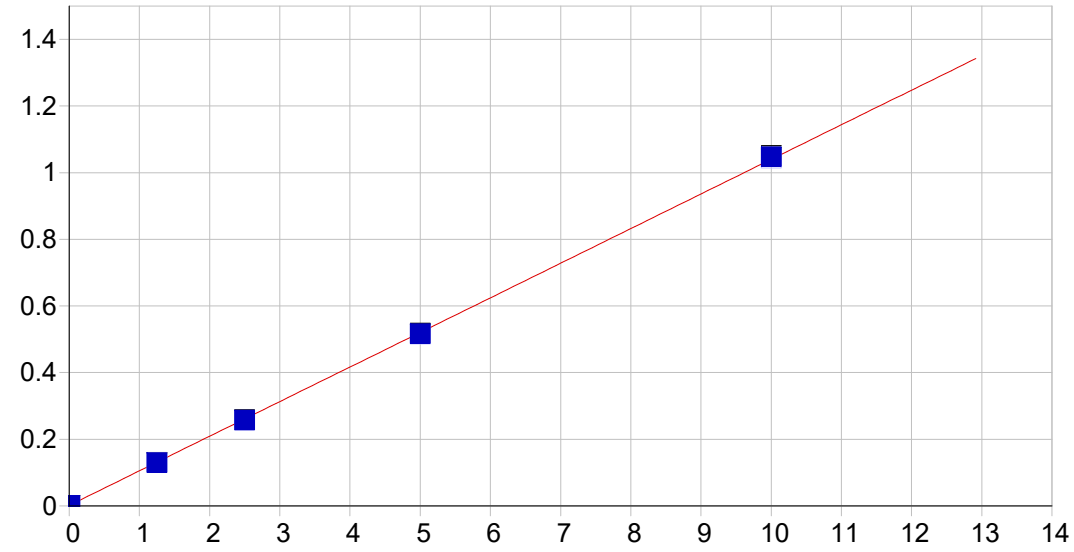
Si 251.611 {134}

Date of Fit:	12/04/2024 5:57:49	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.003248	Re-Slope:	1.000000
A1 (Gain):	0.329200	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.994575	Status:	OK.
Std Error of Est:	0.001871		
Predicted MDL:	0.000785		
Predicted MQL:	0.002615		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00015	-.000	.000	.00320	.000	1
S1	.10000	.24195	.142	142.	.08336	.000	1
S2	1.2500	1.2889	.039	3.11	.43689	.002	1
S3	2.5000	2.6267	.127	5.07	.88664	.058	1
S4	5.0000	4.8971	-.103	-2.06	1.6527	.007	1
S5	10.000	9.7966	-.203	-2.03	3.3030	.008	1

Reviewed By:Jaswal
On:12/14/2024 4:08:47 AM
Inst Id :P5



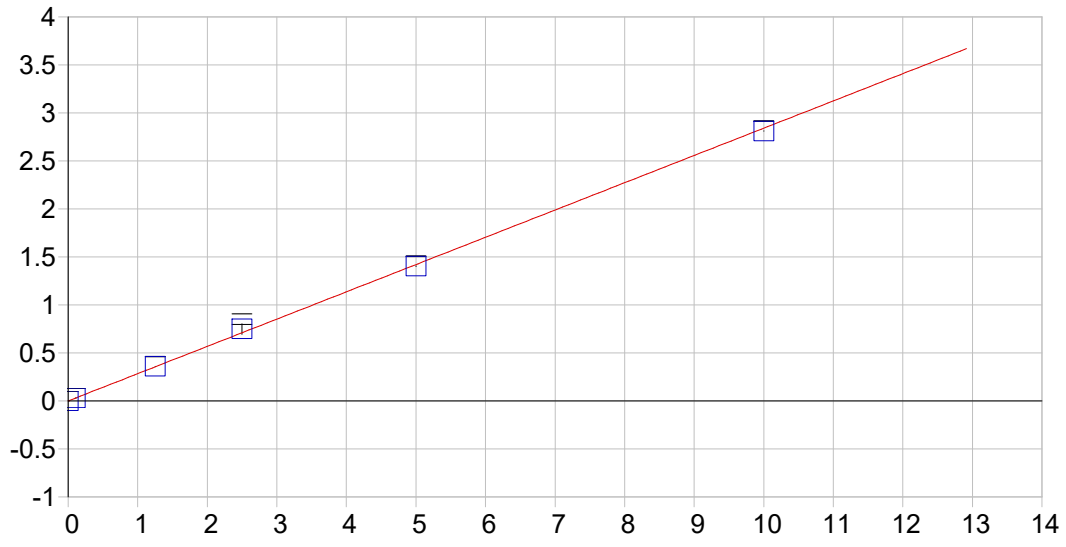
Sn 189.989 {478}

Date of Fit:	12/04/2024 5:57:49	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.001374	Re-Slope:	1.000000
A1 (Gain):	0.103850	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999944	Status:	OK.
Std Error of Est:	0.000015		
Predicted MDL:	0.001523		
Predicted MQL:	0.005076		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00137	.000	1
S1	.00700	.00917	.002	30.9	.00229	.000	1
S2	1.2500	1.2383	-.012	-.934	.12932	.000	1
S3	2.5000	2.4665	-.033	-1.34	.25622	.001	1
S4	5.0000	4.9657	-.034	-.686	.51446	.001	1
S5	10.000	10.077	.077	.774	1.0427	.004	1

Reviewed By:Jaswal
On:12/14/2024 4:08:47 AM
Inst Id :P5



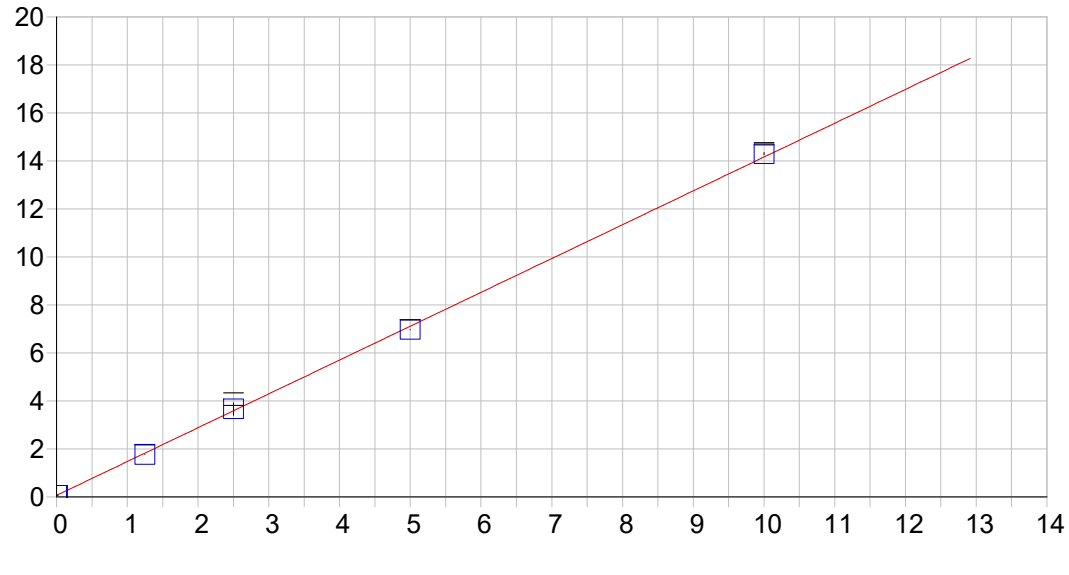
Ti 336.121 {100}

Date of Fit:	12/04/2024 5:57:49	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000133	Re-Slope:	1.000000
A1 (Gain):	0.284092	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999722	Status:	OK.
Std Error of Est:	0.000356		
Predicted MDL:	0.001460		
Predicted MQL:	0.004865		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00002	-.000	.000	-.00014	.000	1
S1	.10000	.11083	.011	10.8	.03135	.000	1
S2	1.2500	1.2648	.015	1.18	.35918	.001	1
S3	2.5000	2.6360	.136	5.44	.74874	.054	1
S4	5.0000	4.9410	-.059	-1.18	1.4036	.004	1
S5	10.000	9.8974	-.103	-1.03	2.8116	.003	1

Reviewed By:Jaswal
On:12/14/2024 4:08:47 AM
Inst Id :P5



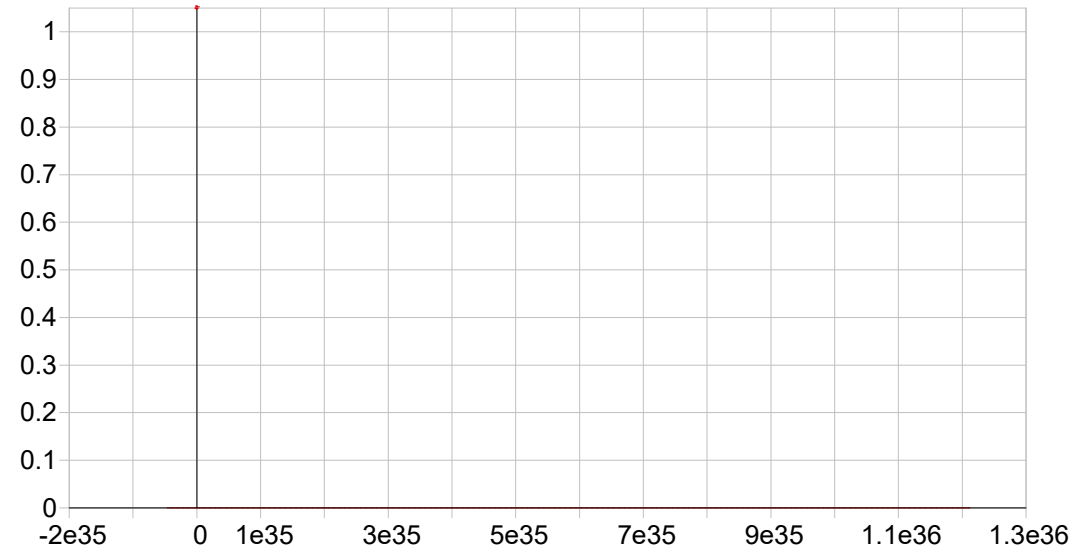
Li 670.784 { 50}

Date of Fit:	12/04/2024 5:57:49	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.064286	Re-Slope:	1.000000
A1 (Gain):	1.409629	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999786	Status:	OK.
Std Error of Est:	0.000600		
Predicted MDL:	0.001159		
Predicted MQL:	0.003864		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00001	.000	.000	.06429	.001	1
S5	10.000	10.097	.097	.973	14.298	.044	1
S4	5.0000	4.9006	-.099	-1.99	6.9723	.007	1
S3	2.5000	2.5514	.051	2.06	3.6608	.261	1
S2	1.2500	1.2069	-.043	-3.45	1.7656	.006	1
S1	.01500	.00878	-.006	-41.5	.07666	.001	1

Reviewed By:Jaswal
On:12/14/2024 4:08:47 AM
Inst Id :P5

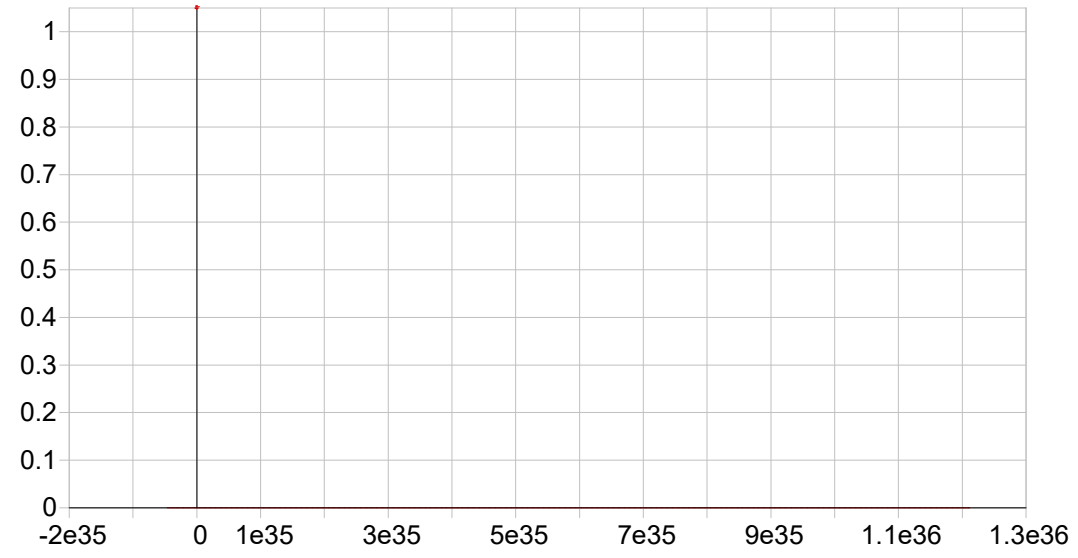


Y 224.306 {450}*

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}*

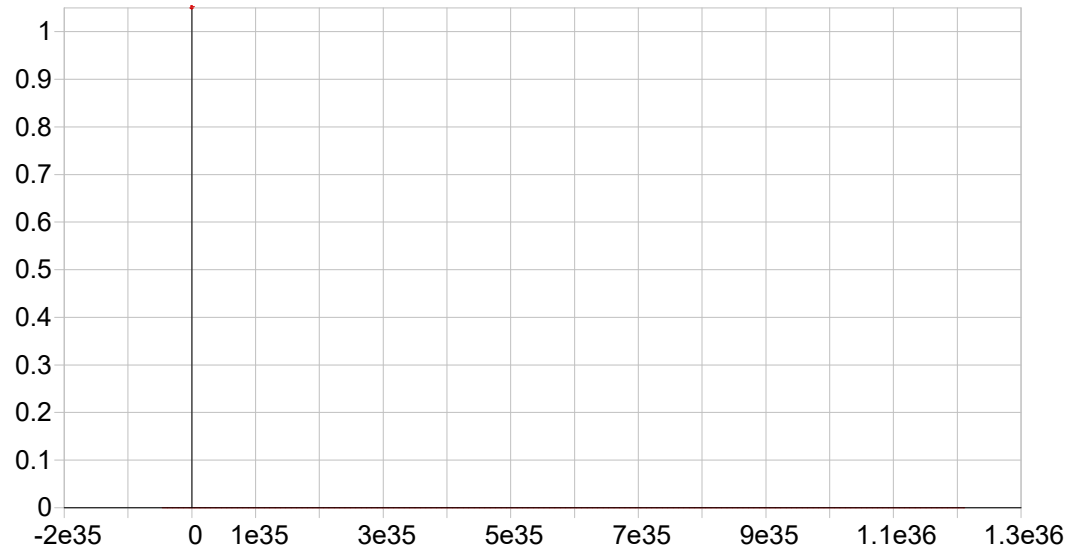
Date of Fit:	<not fit>	Type of Fit:	Linear	Weighting:	1/Conc

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

Reviewed By:Jaswal
On:12/14/2024 4:08:47 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

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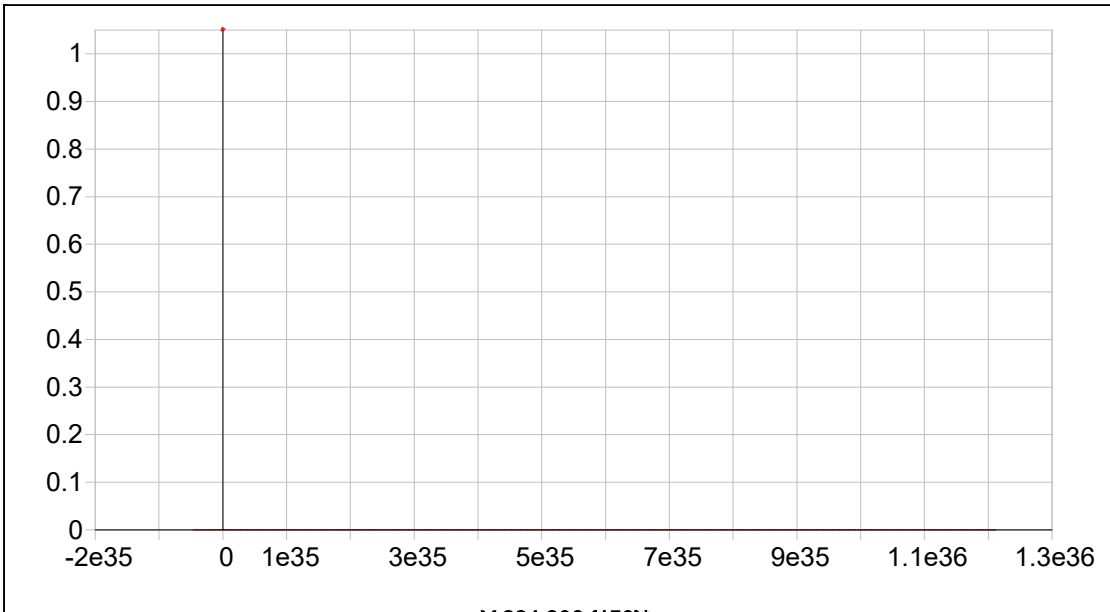
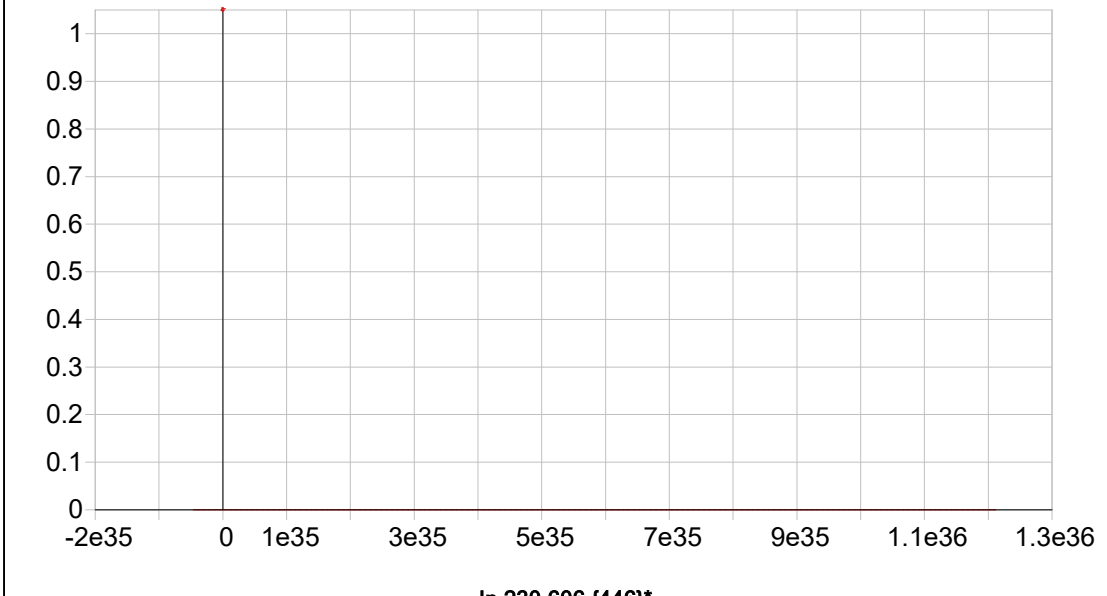


Y 224.306 {150}*

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

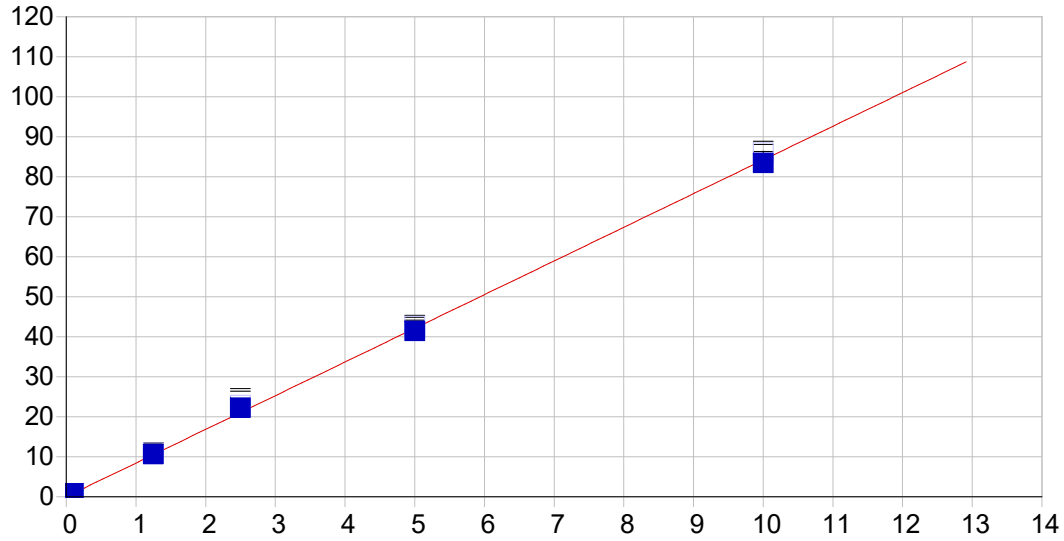


In 230.606 {446}*

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	

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



Sr 407.771 { 83}

Date of Fit:	12/04/2024 5:57:49	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.003284	Re-Slope:	1.000000
A1 (Gain):	8.419275	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999683	Status:	OK.
Std Error of Est:	0.011599		
Predicted MDL:	0.000081		
Predicted MQL:	0.000270		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00002	-.000	.000	.00311	.000	1
S1	.10000	.11630	.016	16.3	.98330	.001	1
S2	1.2500	1.2641	.014	1.13	10.962	.018	1
S3	2.5000	2.6390	.139	5.56	22.853	1.67	1
S4	5.0000	4.9170	-.083	-1.66	42.664	.247	1
S5	10.000	9.9140	-.086	-.860	85.998	.371	1

Reviewed By:Jaswal
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Inst Id :P5

Sample Name: S0 Acquired: 12/04/2024 18:07:18 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v765) 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	-.00008	-.00031	-.00064	.00038	.00026	-.00145	-.00337	-.00065
Stddev	.00014	.00012	.00010	.00026	.00045	.00076	.00054	.00024
%RSD	179.21	36.919	15.731	67.618	175.51	52.691	16.078	37.055
#1	-.00010	-.00043	-.00059	.00064	.00075	-.00146	-.00314	-.00092
#2	.00007	-.00032	-.00058	.00037	-.00012	-.00068	-.00399	-.00056
#3	-.00020	-.00020	-.00076	.00013	.00014	-.00220	-.00298	-.00046

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	.00052	.00306	.00002	-.00017	.00116	.00042	.00020	-.00038
Stddev	.00004	.00028	.00008	.00003	.00021	.00024	.00019	.00015
%RSD	7.5135	9.1913	510.62	20.795	17.746	58.107	94.666	38.850
#1	.00052	.00274	-.00006	-.00020	.00138	.00068	.00038	-.00036
#2	.00056	.00329	.00001	-.00017	.00111	.00040	.00019	-.00053
#3	.00048	.00313	.00010	-.00013	.00098	.00019	.00001	-.00024

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	.00041	-.00211	-.00301	-.00020	-.00016	.04621	-.00118	.00368
Stddev	.00029	.00008	.00100	.00024	.00067	.00034	.00014	.00014
%RSD	70.017	3.7948	33.197	120.99	410.33	.73607	11.872	3.8472
#1	.00037	-.00219	-.00236	-.00046	.00048	.04645	-.00109	.00365
#2	.00072	-.00211	-.00416	-.00015	-.00012	.04582	-.00134	.00384
#3	.00015	-.00203	-.00252	.00001	-.00086	.04637	-.00111	.00356

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707	Sr4077
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.00002	.00018	.00320	.00137	-.00014	.06429	.00311
Stddev	.00021	.00006	.00034	.00020	.00018	.00119	.00044
%RSD	1036.2	35.689	10.781	14.375	133.65	1.8488	14.171
#1	.00023	.00023	.00352	.00126	-.00021	.06560	.00260
#2	-.00019	.00019	.00324	.00160	-.00028	.06401	.00338
#3	.00002	.00011	.00284	.00126	.00007	.06328	.00335

Reviewed By:Jaswal
On:12/14/2024 4:08:47 AM
Inst Id :P5

Sample Name: S0 Acquired: 12/04/2024 18:07:18 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v765) 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	1266.8	38265.	7365.4	1113.0	2232.8
Stddev	2.9	156.	13.0	5.8	4.2
%RSD	.23215	.40804	.17622	.51805	.18663
#1	1263.5	38443.	7351.2	1118.6	2228.0
#2	1268.6	38195.	7376.6	1107.1	2234.9
#3	1268.5	38155.	7368.5	1113.3	2235.4

Reviewed By:Jaswal
On:12/14/2024 4:08:47 AM
Inst Id :P5

Sample Name: S1 Acquired: 12/04/2024 18:11:26 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v765) 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	.00023	.00152	.00072	.00200	.01022	.01940	1.0422	.01491
Stddev	.00014	.00026	.00010	.00024	.00010	.00027	.0028	.00061
%RSD	62.265	16.781	13.374	12.183	.95869	1.3789	.26889	4.0719
#1	.00039	.00134	.00074	.00228	.01019	.01961	1.0410	.01511
#2	.00015	.00141	.00062	.00187	.01033	.01910	1.0454	.01423
#3	.00014	.00182	.00081	.00185	.01014	.01948	1.0402	.01539

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	.01111	.29203	.00189	.03232	.00561	.00302	.00960	.03867
Stddev	.00018	.00073	.00005	.00014	.00020	.00019	.00004	.00033
%RSD	1.6047	.24888	2.4218	.44576	3.5019	6.2316	.44522	.84709
#1	.01114	.29276	.00184	.03245	.00581	.00288	.00961	.03895
#2	.01092	.29201	.00188	.03217	.00541	.00323	.00956	.03874
#3	.01127	.29131	.00193	.03235	.00560	.00295	.00964	.03831

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	.02634	.00066	.02561	.00637	.01388	.17551	-.00082	.00230
Stddev	.00013	.00010	.00107	.00012	.00112	.00073	.00009	.00008
%RSD	.49381	15.231	4.1660	1.8549	8.0871	.41380	11.162	3.5793
#1	.02627	.00063	.02591	.00641	.01301	.17614	-.00092	.00239
#2	.02626	.00077	.02650	.00646	.01515	.17471	-.00074	.00225
#3	.02649	.00058	.02443	.00624	.01348	.17566	-.00082	.00224

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707	Sr4077
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.00832	.00332	.08336	.00229	.03135	.07666	.98330
Stddev	.00028	.00025	.00015	.00011	.00014	.00124	.00065
%RSD	3.4228	7.4657	.18052	4.8983	.45258	1.6190	.06569
#1	.00803	.00323	.08332	.00234	.03149	.07779	.98291
#2	.00860	.00314	.08324	.00238	.03121	.07686	.98295
#3	.00833	.00360	.08353	.00217	.03135	.07534	.98404

Reviewed By:Jaswal
On:12/14/2024 4:08:47 AM
Inst Id :P5

Sample Name: S1 Acquired: 12/04/2024 18:11:26 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v765) 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	1259.7	37939.	7403.2	1107.9	2174.6
Stddev	1.0	61.	12.1	4.7	1.3
%RSD	.08261	.16101	.16348	.42185	.06198
#1	1260.1	37869.	7390.5	1108.6	2174.2
#2	1260.4	37977.	7404.5	1102.9	2176.1
#3	1258.5	37972.	7414.6	1112.1	2173.5

Reviewed By:Jaswal
On:12/14/2024 4:08:47 AM
Inst Id :P5

Sample Name: S2 Acquired: 12/04/2024 18:15:31 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v765) 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	.04507	.07670	.88738	.05760	.19217	3.8338	11.774	.33329
Stddev	.00066	.00051	.00332	.00029	.00069	.0051	.024	.00068
%RSD	1.4656	.66045	.37384	.49598	.35947	.13274	.20484	.20316
#1	.04431	.07634	.88645	.05729	.19151	3.8280	11.767	.33392
#2	.04542	.07649	.88463	.05764	.19209	3.8371	11.801	.33338
#3	.04548	.07728	.89106	.05785	.19289	3.8364	11.755	.33257

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	1.2495	3.1579	.63501	.37828	.59572	.92863	1.9130	.43081
Stddev	.0029	.0068	.00051	.00108	.00137	.00129	.0044	.00115
%RSD	.23514	.21422	.08002	.28641	.23060	.13850	.22878	.26626
#1	1.2504	3.1657	.63560	.37777	.59495	.92753	1.9175	.42948
#2	1.2462	3.1549	.63470	.37754	.59730	.93005	1.9126	.43140
#3	1.2519	3.1533	.63473	.37952	.59490	.92832	1.9088	.43154

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	.35769	.07257	.19728	.06907	.68601	.94024	.03743	.26673
Stddev	.00123	.00029	.00093	.00041	.00379	.00286	.00016	.00125
%RSD	.34312	.39561	.47200	.59924	.55231	.30381	.42504	.46998
#1	.35821	.07223	.19695	.06859	.68166	.93756	.03726	.26813
#2	.35629	.07272	.19833	.06928	.68861	.94324	.03758	.26636
#3	.35858	.07274	.19655	.06933	.68775	.93991	.03744	.26571

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707	Sr4077
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.95132	.03482	.43689	.12932	.35918	1.7656	10.962
Stddev	.00170	.00034	.00154	.00031	.00127	.0060	.018
%RSD	.17841	.98305	.35318	.24009	.35464	.33865	.16086
#1	.94962	.03448	.43781	.12899	.35771	1.7595	10.957
#2	.95132	.03482	.43775	.12938	.35978	1.7715	10.981
#3	.95301	.03516	.43511	.12961	.36004	1.7656	10.947

Reviewed By:Jaswal
On:12/14/2024 4:08:47 AM
Inst Id :P5

Sample Name: S2 Acquired: 12/04/2024 18:15:31 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v765) 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	1207.9	36642.	7379.2	1065.5	1935.8
Stddev	1.3	49.	28.2	7.2	4.9
%RSD	.10748	.13410	.38226	.67763	.25102
#1	1206.7	36647.	7373.7	1073.6	1931.9
#2	1209.2	36590.	7354.2	1059.7	1941.3
#3	1207.8	36688.	7409.8	1063.2	1934.3

Reviewed By:Jaswal
On:12/14/2024 4:08:47 AM
Inst Id :P5

Sample Name: S3 Acquired: 12/04/2024 18:19:23 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v765) 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	.09084	.14921	1.7585	.11401	.38213	8.0678	24.678	.69106
Stddev	.00055	.00096	.0031	.00060	.00149	.5920	1.771	.04607
%RSD	.60362	.64140	.17472	.52981	.39122	7.3381	7.1743	6.6661
#1	.09122	.14848	1.7569	.11468	.38068	7.6967	23.575	.66099
#2	.09021	.14885	1.7566	.11351	.38203	8.7505	26.721	.74410
#3	.09109	.15029	1.7620	.11383	.38367	7.7561	23.740	.66810

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	2.4836	6.5429	1.2409	.75428	1.2382	1.9182	3.9358	.90798
Stddev	.0064	.4776	.0016	.00193	.0909	.1415	.2878	.06461
%RSD	.25860	7.3001	.12781	.25590	7.3382	7.3773	7.3126	7.1159
#1	2.4784	6.2321	1.2394	.75271	1.1827	1.8281	3.7529	.86595
#2	2.4818	7.0928	1.2408	.75371	1.3431	2.0813	4.2675	.98237
#3	2.4908	6.3037	1.2426	.75644	1.1889	1.8451	3.7869	.87561

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	.70630	.14679	.41397	.14308	1.3758	1.9396	.07833	.54403
Stddev	.00182	.00031	.03038	.01016	.0060	.1411	.00053	.03463
%RSD	.25820	.20971	7.3380	7.1030	.43525	7.2732	.68261	6.3663
#1	.70521	.14708	.39692	.13593	1.3751	1.8537	.07794	.52090
#2	.70528	.14682	.44904	.15471	1.3821	2.1024	.07894	.58385
#3	.70840	.14647	.39595	.13860	1.3702	1.8627	.07812	.52735

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707	Sr4077
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1.8733	.07128	.88664	.25622	.74874	3.6608	22.853
Stddev	.0004	.00041	.05838	.00071	.05440	.2609	1.672
%RSD	.02382	.58198	6.5849	.27824	7.2655	7.1254	7.3155
#1	1.8729	.07080	.84751	.25615	.71484	3.5025	21.845
#2	1.8733	.07150	.95375	.25554	.81148	3.9619	24.783
#3	1.8738	.07154	.85866	.25696	.71989	3.5180	21.932

Reviewed By:Jaswal
On:12/14/2024 4:08:47 AM
Inst Id :P5

Sample Name: S3 Acquired: 12/04/2024 18:19:23 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v765) 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	1166.0	35580.	6979.0	1028.3	1826.4
Stddev	2.3	14.	451.5	2.9	1.5
%RSD	.19368	.03856	6.4697	.28102	.08236
#1	1163.7	35596.	7269.2	1028.8	1824.8
#2	1166.1	35569.	6458.7	1025.2	1827.8
#3	1168.2	35575.	7208.9	1030.9	1826.7

Reviewed By:Jaswal
On:12/14/2024 4:08:47 AM
Inst Id :P5

Sample Name: S4 Acquired: 12/04/2024 18:23:15 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v765) 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	.18644	.29275	3.5201	.23277	.78499	15.493	46.794	1.3002
Stddev	.00065	.00018	.0056	.00065	.00275	.044	.071	.0025
%RSD	.34619	.06188	.15766	.27759	.34999	.28665	.15152	.19528
#1	.18612	.29269	3.5150	.23310	.78317	15.544	46.793	1.3031
#2	.18601	.29296	3.5260	.23203	.78815	15.464	46.866	1.2987
#3	.18718	.29261	3.5194	.23319	.78365	15.471	46.724	1.2987

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	4.9550	12.337	2.4252	1.5172	2.3340	3.5556	7.3381	1.7340
Stddev	.0084	.035	.0022	.0018	.0034	.0147	.0122	.0054
%RSD	.16950	.28254	.08977	.11627	.14667	.41290	.16624	.31166
#1	4.9515	12.363	2.4234	1.5183	2.3363	3.5709	7.3485	1.7399
#2	4.9646	12.351	2.4247	1.5181	2.3301	3.5417	7.3413	1.7294
#3	4.9490	12.297	2.4276	1.5152	2.3356	3.5541	7.3247	1.7326

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	1.4103	.30302	.78727	.26755	2.8099	3.6886	.16416	1.0101
Stddev	.0031	.00115	.00306	.00155	.0037	.0151	.00019	.0040
%RSD	.21780	.38081	.38842	.57937	.12992	.40867	.11429	.39737
#1	1.4118	.30430	.79045	.26914	2.8139	3.7022	.16418	1.0148
#2	1.4123	.30268	.78435	.26747	2.8092	3.6724	.16396	1.0080
#3	1.4067	.30207	.78701	.26605	2.8067	3.6912	.16433	1.0076

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707	Sr4077
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3.7729	.15008	1.6527	.51446	1.4036	6.9723	42.664
Stddev	.0096	.00088	.0065	.00104	.0039	.0071	.247
%RSD	.25394	.58495	.39437	.20212	.27623	.10161	.57801
#1	3.7621	.14945	1.6602	.51377	1.4080	6.9788	42.926
#2	3.7802	.14970	1.6494	.51396	1.4008	6.9733	42.437
#3	3.7765	.15108	1.6485	.51566	1.4019	6.9648	42.628

Reviewed By:Jaswal
On:12/14/2024 4:08:47 AM
Inst Id :P5

Sample Name: S4 Acquired: 12/04/2024 18:23:15 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v765) 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	1097.2	34327.	7204.6	973.88	1697.0
Stddev	2.0	40.	23.7	2.02	1.8
%RSD	.18682	.11653	.32886	.20772	.10868
#1	1098.7	34354.	7177.8	975.53	1697.7
#2	1094.9	34347.	7213.7	971.63	1694.9
#3	1098.1	34281.	7222.5	974.49	1698.3

Reviewed By:Jaswal
On:12/14/2024 4:08:47 AM
Inst Id :P5

Sample Name: S5 Acquired: 12/04/2024 18:27:13 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v765) 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	.40006	.58032	7.1314	.49316	1.6924	31.866	93.940	2.6200
Stddev	.00169	.00144	.0146	.00024	.0034	.044	.827	.0044
%RSD	.42289	.24893	.20429	.04827	.20292	.13931	.88017	.16682
#1	.39831	.57955	7.1329	.49305	1.6938	31.906	94.520	2.6180
#2	.40020	.57941	7.1161	.49343	1.6885	31.818	94.307	2.6250
#3	.40168	.58198	7.1451	.49299	1.6950	31.874	92.993	2.6170

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	9.9254	24.705	4.7734	3.0660	4.7108	7.0756	14.544	3.5586
Stddev	.0191	.033	.0011	.0075	.0068	.0081	.029	.0023
%RSD	.19207	.13475	.02373	.24486	.14494	.11508	.19776	.06343
#1	9.9256	24.668	4.7735	3.0658	4.7160	7.0850	14.521	3.5610
#2	9.9062	24.714	4.7723	3.0586	4.7031	7.0717	14.576	3.5584
#3	9.9443	24.732	4.7745	3.0736	4.7133	7.0702	14.534	3.5565

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	2.8376	.63737	1.5999	.53268	5.9687	7.5551	.34631	1.9793
Stddev	.0095	.00025	.0036	.00129	.0261	.0308	.00040	.0040
%RSD	.33438	.03962	.22181	.24174	.43670	.40798	.11597	.20275
#1	2.8422	.63714	1.6030	.53124	5.9940	7.5894	.34664	1.9747
#2	2.8267	.63733	1.5960	.53308	5.9419	7.5296	.34586	1.9812
#3	2.8439	.63764	1.6006	.53371	5.9703	7.5464	.34642	1.9820

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707	Sr4077
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	7.8035	.31825	3.3030	1.0427	2.8116	14.298	85.998
Stddev	.0278	.00096	.0077	.0037	.0032	.044	.371
%RSD	.35589	.30025	.23379	.34972	.11513	.30503	.43136
#1	7.7959	.31718	3.2978	1.0436	2.8146	14.328	86.166
#2	7.7803	.31854	3.3119	1.0387	2.8082	14.248	86.256
#3	7.8343	.31903	3.2993	1.0458	2.8120	14.317	85.573

Reviewed By:Jaswal
On:12/14/2024 4:08:47 AM
Inst Id :P5

Sample Name: S5 Acquired: 12/04/2024 18:27:13 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v765) 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	995.43	32755.	7052.7	889.81	1553.1
Stddev	1.98	48.	25.3	1.39	3.4
%RSD	.19875	.14804	.35910	.15675	.21820
#1	995.86	32789.	7062.0	888.90	1553.6
#2	997.16	32700.	7024.0	891.41	1556.2
#3	993.27	32777.	7072.1	889.11	1549.5

Reviewed By:Jaswal
On:12/14/2024 4:08:47 AM
Inst Id :P5

Sample Name: S6 Acquired: 12/04/2024 18:31:17 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v765) 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	83.094	38.781	18.919	5.8607	4.3054
Stddev	.174	.078	.042	.0074	.0082
%RSD	.20944	.20187	.22345	.12632	.19049
#1	83.293	38.707	18.943	5.8691	4.3133
#2	82.966	38.773	18.943	5.8576	4.3059
#3	83.025	38.863	18.870	5.8553	4.2969

Int. Std.	Y_3710
Units	Cts/S
Avg	6944.8
Stddev	5.0
%RSD	.07141
#1	6944.1
#2	6940.1
#3	6950.0

Reviewed By:Jaswal
On:12/14/2024 4:08:47 AM
Inst Id :P5

Sample Name: ICV013 Acquired: 12/04/2024 18:35:38 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v765) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICV013 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9281229	1.027288	.9935221	.9918132	1.023790	2.418002
Stddev	.0026579	.005108	.0057820	.0017500	.006745	.008066
%RSD	.2863737	.4972043	.5819705	.1764440	.6588742	.3335874
#1	.9256900	1.022076	.9873191	.9906525	1.016709	2.413006
#2	.9309596	1.032285	.9944850	.9938261	1.030140	2.427308
#3	.9277192	1.027503	.9987622	.9909611	1.024521	2.413693

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5222172	.5308963	.4823735	10.30129	.5698185	.5016058
Stddev	.0010120	.0027079	.0006818	.02412	.0006498	.0011995
%RSD	.1937968	.5100665	.1413453	.2341059	.1140328	.2391306
#1	.5230453	.5316812	.4818735	10.32205	.5699801	.5002241
#2	.5210891	.5278826	.4820969	10.30700	.5691031	.5022132
#3	.5225174	.5331250	.4831501	10.27484	.5703722	.5023801

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4990674	10.68018	.5395691	5.505985	.5121338	.2448075
Stddev	.0045439	.05508	.0015940	.040234	.0021436	.0003324
%RSD	.9104766	.5157144	.2954124	.7307262	.4185655	.1357744
#1	.5011532	10.61674	.5408935	5.461084	.5131997	.2445739
#2	.5021939	10.70800	.5400139	5.518107	.5096662	.2446607
#3	.4938551	10.71581	.5378000	5.538764	.5135356	.2451880

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.890357	.5215925	1.012681	9.349488	F .0002036	F .0070259
Stddev	.043145	.0013938	.013491	.071229	.0033978	.0005664
%RSD	.4362292	.2672252	1.332160	.7618485	1668.590	8.061459
#1	9.936428	.5203634	1.000023	9.410323	.0039881	.0075528
#2	9.883737	.5213072	1.026873	9.271134	-.000792	.0064269
#3	9.850904	.5231069	1.011146	9.367006	-.002585	.0070980

Reviewed By:Jaswal
On:12/14/2024 4:08:47 AM
Inst Id :P5

Sample Name: ICV013 Acquired: 12/04/2024 18:35:38 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v765) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICV013 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F -.000635	F -.000628	F .0019810	F -.012212	F -.000081	F .0038535
Stddev	.000278	.002216	.0003496	.000884	.001003	.0005391
%RSD	43.71503	352.7339	17.64575	7.236561	1232.197	13.99121
#1	-.000380	-.000019	.0016856	-.011737	-.000191	.0041455
#2	-.000931	-.003085	.0023669	-.013231	-.001025	.0041837
#3	-.000594	.001219	.0018903	-.011667	.000972	.0032313

Elem	Sr4077
Units	ppm
Avg	F -.009531
Stddev	.000098
%RSD	1.030338
#1	-.009452
#2	-.009500
#3	-.009641

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1265.323	37832.21	7435.166	1094.709	2141.610
Stddev	2.671	64.26	26.343	5.976	1.971
%RSD	.2110931	.1698515	.3543026	.5459334	.0920253
#1	1266.031	37804.04	7432.767	1099.693	2141.534
#2	1267.569	37786.86	7462.626	1088.084	2143.617
#3	1262.370	37905.75	7410.104	1096.351	2139.678

Reviewed By:Jaswal
On:12/14/2024 4:08:47 AM
Inst Id :P5

Sample Name: ICB013 Acquired: 12/04/2024 18:39:32 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v765) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICB013 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000092	.0014888	.0003193	-.001901	.0010127	.0050914
Stddev	.0044900	.0037826	.0029275	.002830	.0007680	.0003998
%RSD	49051.69	254.0691	916.8480	148.8274	75.83652	7.852598
#1	.0007913	.0057521	-.001939	-.002332	.0018996	.0054933
#2	-.004821	-.001465	-.000729	-.004491	.0005707	.0046938
#3	.004057	.000180	.003627	.001119	.0005679	.0050870

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000215	.0000717	.0000894	-.022754	-.000447	.0002072
Stddev	.000188	.0000454	.0001292	.010291	.000400	.0001060
%RSD	87.38750	63.28274	144.4767	45.22578	89.40728	51.13132
#1	-.000005	.0000988	.0000467	-.012994	-.000216	.0001096
#2	-.000275	.0000193	-.000013	-.033504	-.000908	.0003199
#3	-.000367	.0000969	.000235	-.021765	-.000216	.0001922

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0008867	-.010410	-.001133	.0264804	-.000552	.0000836
Stddev	.0021141	.000587	.000611	.0223870	.000724	.0002939
%RSD	238.4167	5.642874	53.93110	84.54207	131.1589	351.5129
#1	.0008819	-.010260	-.000437	.0079257	.000188	-.000123
#2	.0030033	-.011058	-.001581	.0513453	-.001258	-.000047
#3	-.001225	-.009912	-.001382	.0201701	-.000585	.000420

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1513106	.0022191	-.010133	.0122587	-.000416	-.006209
Stddev	.1368155	.0013458	.001120	.0341228	.002320	.001090
%RSD	90.42029	60.64621	11.05454	278.3558	557.5077	17.55375
#1	.2542499	.0025088	-.011018	.0455780	-.003003	-.007451
#2	-.003943	.0007521	-.008873	-.022614	.001481	-.005410
#3	.203625	.0033966	-.010507	.013812	.000273	-.005767

Reviewed By:Jaswal
On:12/14/2024 4:08:47 AM
Inst Id :P5

Sample Name: ICB013 Acquired: 12/04/2024 18:39:32 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v765) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICB013 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000357	-.000448	-.000208	F -.011251	.0005089	-.000964
Stddev	.000583	.000343	.000226	.000551	.0006124	.000966
%RSD	163.1073	76.60551	108.5127	4.898136	120.3374	100.1601
#1	-.000394	-.000285	-.000396	-.011781	-.000172	-.000146
#2	-.000922	-.000216	-.000271	-.010681	.001014	-.002030
#3	.000243	-.000842	.000042	-.011290	.000684	-.000717

Elem	Sr4077
Units	ppm
Avg	-.000159
Stddev	.000058
%RSD	36.41596
#1	-.000205
#2	-.000094
#3	-.000177

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1269.392	37992.14	7356.371	1102.818	2217.042
Stddev	2.207	20.52	1.277	2.348	2.481
%RSD	.1738781	.0539981	.0173594	.2128746	.1118867
#1	1266.895	37968.46	7356.800	1102.024	2214.178
#2	1271.082	38003.38	7357.377	1100.971	2218.441
#3	1270.200	38004.58	7354.934	1105.460	2218.508

Reviewed By:Jaswal
On:12/14/2024 4:08:47 AM
Inst Id :P5

Sample Name: ICSA013 Acquired: 12/04/2024 18:48:42 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v765) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICSA013 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0042012	-.012933	-.005432	-.000360	.0059188	228.1322
Stddev	.0084107	.007713	.001825	.000560	.0018915	.1968
%RSD	200.1968	59.64184	33.60262	155.6461	31.95757	.0862634
#1	.0131345	-.007972	-.007405	.000121	.0047529	228.2280
#2	-.003565	-.021819	-.005084	-.000226	.0081012	228.2628
#3	.003034	-.009007	-.003805	-.000975	.0049023	227.9059

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0055610	.0008649	-.000463	238.8286	.0506024	-.001398
Stddev	.0003042	.0000173	.000222	.2076	.0002917	.000692
%RSD	5.470836	1.995563	47.96061	.0869204	.5764186	49.52491
#1	.0052873	.0008471	-.000603	238.6764	.0509011	-.001253
#2	.0055070	.0008816	-.000578	238.7442	.0505879	-.002151
#3	.0058886	.0008661	-.000207	239.0650	.0503183	-.000790

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.005029	96.14953	.0115695	226.4201	.0023293	-.007012
Stddev	.001056	.05529	.0002102	.2332	.0004163	.000300
%RSD	20.99228	.0575061	1.816909	.1029734	17.87261	4.280095
#1	-.003813	96.14285	.0113284	226.1786	.0018860	-.006924
#2	-.005560	96.20786	.0116653	226.6439	.0027119	-.007346
#3	-.005714	96.09788	.0117147	226.4378	.0023899	-.006766

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6238613	.0043048	-.036250	-.302167	-.001972	F .0697644
Stddev	.4219813	.0025871	.003725	.057487	.000919	.0018515
%RSD	67.64024	60.09714	10.27541	19.02502	46.59536	2.653977
#1	.1679285	.0014311	-.034309	-.236369	-.002974	.0679454
#2	.7029581	.0050353	-.040545	-.342666	-.001773	.0697009
#3	1.000697	.0064482	-.033897	-.327465	-.001169	.0716468

Reviewed By:Jaswal
On:12/14/2024 4:08:47 AM
Inst Id :P5

Sample Name: ICSA013 Acquired: 12/04/2024 18:48:42 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v765) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICSA013 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.001484	.0162358	-.002224	F -.007180	-.001333	-.004520
Stddev	.000552	.0105978	.000265	.003038	.000495	.000686
%RSD	37.15825	65.27433	11.90400	42.31051	37.10011	15.18732
#1	-.002027	.0137545	-.001929	-.003864	-.001103	-.004581
#2	-.001503	.0070988	-.002441	-.007845	-.001901	-.005174
#3	-.000924	.0278541	-.002301	-.009830	-.000995	-.003805

Elem	Sr4077
Units	ppm
Avg	.0044950
Stddev	.0001307
%RSD	2.908076
#1	.0045505
#2	.0045888
#3	.0043457

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1171.039	34827.13	7233.486	1021.881	1787.975
Stddev	.771	74.09	16.692	6.827	1.885
%RSD	.0658187	.2127226	.2307541	.6680621	.1054385
#1	1171.866	34860.88	7238.970	1028.449	1788.282
#2	1170.342	34878.34	7214.743	1022.371	1789.688
#3	1170.908	34742.18	7246.747	1014.822	1785.955

Reviewed By:Jaswal
On:12/14/2024 4:08:47 AM
Inst Id :P5

Sample Name: ICSAB013 Acquired: 12/04/2024 18:52:40 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v765) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICSAB013 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0951000	.0958575	.0485410	.0427837	.5958713	244.1372
Stddev	.0134120	.0043049	.0012309	.0033189	.0029591	.7355
%RSD	14.10303	4.490912	2.535709	7.757435	.4965976	.3012851
#1	.1096181	.1003301	.0498446	.0412920	.5931237	244.7047
#2	.0831720	.0954998	.0483798	.0404724	.5990041	244.4008
#3	.0925097	.0917427	.0473987	.0465867	.5954859	243.3062

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5316244	.5282525	1.001304	255.2472	.6108159	.5173639
Stddev	.0011258	.0013081	.000909	.5334	.0028240	.0020375
%RSD	.2117608	.2476241	.0907635	.2089931	.4623271	.3938279
#1	.5324988	.5270604	1.001178	255.1556	.6140592	.5175508
#2	.5320202	.5296518	1.000466	255.8205	.6089014	.5152394
#3	.5303542	.5280453	1.002270	254.7655	.6094872	.5193016

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4832062	102.3794	.5395354	241.5871	1.042301	.1834380
Stddev	.0013492	.2017	.0022671	.7497	.001621	.0003884
%RSD	.2792274	.1969868	.4201970	.3103060	.1554970	.2117546
#1	.4834603	102.5793	.5397051	241.6712	1.043607	.1829902
#2	.4844103	102.3828	.5417129	242.2911	1.040487	.1836388
#3	.4817480	102.1760	.5371882	240.7989	1.042809	.1836849

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6150568	.5142589	.9566947	-.552424	-.006624	F .0763581
Stddev	.0235015	.0010150	.0153664	.035040	.003429	.0029147
%RSD	3.821021	.1973740	1.606198	6.342950	51.76300	3.817087
#1	.6064372	.5153303	.9715436	-.513281	-.002966	.0795809
#2	.6416510	.5133117	.9576819	-.580866	-.009765	.0739068
#3	.5970822	.5141348	.9408584	-.563125	-.007140	.0755867

Reviewed By:Jaswal
On:12/14/2024 4:08:47 AM
Inst Id :P5

Sample Name: ICSAB013 Acquired: 12/04/2024 18:52:40 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v765) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICSAB013 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.001222	.0106989	-.001843	F -.007316	-.002109	-.010884
Stddev	.000623	.0040892	.000793	.001982	.000893	.000653
%RSD	50.96037	38.22104	43.01313	27.09000	42.36276	5.998218
#1	-.000518	.0150990	-.001433	-.007407	-.001220	-.010731
#2	-.001446	.0070153	-.002757	-.009250	-.003007	-.010321
#3	-.001701	.0099823	-.001339	-.005290	-.002100	-.011599

Elem	Sr4077
Units	ppm
Avg	.0054211
Stddev	.0001864
%RSD	3.438754
#1	.0052318
#2	.0056045
#3	.0054270

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1168.625	34775.61	7284.546	1019.873	1780.692
Stddev	3.951	89.81	6.715	5.225	4.672
%RSD	.3380620	.2582617	.0921803	.5123316	.2623929
#1	1166.342	34672.47	7281.844	1014.760	1776.636
#2	1173.187	34836.56	7279.604	1019.656	1785.801
#3	1166.347	34817.79	7292.192	1025.204	1779.639

Reviewed By:Jaswal
On:12/14/2024 4:08:47 AM
Inst Id :P5

Sample Name: CCV088 Acquired: 12/04/2024 18:56:31 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v765) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV088 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.871478	4.859348	24.67703	4.864882	4.908193	399.6367	10.02562
Stddev	.010273	.033981	.12372	.014746	.010658	1.8699	.01669
%RSD	.2108866	.6992957	.5013688	.3031030	.2171507	.4679062	.1665017
#1	4.874214	4.829850	24.66074	4.868879	4.896122	400.8531	10.02957
#2	4.860114	4.851688	24.56225	4.848549	4.912155	400.5735	10.03998
#3	4.880106	4.896505	24.80808	4.877216	4.916303	397.4836	10.00730

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4982187	2.493661	399.3177	15.45872	2.497886	14.94153	400.8880
Stddev	.0012534	.012339	.3770	.02778	.011719	.01957	.5906
%RSD	.2515754	.4948021	.0944101	.1796889	.4691391	.1309592	.1473226
#1	.4993590	2.491768	398.9309	15.49013	2.495634	14.92187	400.2063
#2	.4984204	2.482378	399.6840	15.44864	2.487457	14.94174	401.2153
#3	.4968767	2.506837	399.3382	15.43739	2.510567	14.96100	401.2426

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	14.80993	385.7552	2.480759	1.266104	399.9393	2.471770	14.93634
Stddev	.02468	.7636	.007587	.005897	.4060	.002583	.14178
%RSD	.1666537	.1979582	.3058222	.4657273	.1015273	.1044880	.9492021
#1	14.80206	385.0794	2.477382	1.272500	400.0514	2.469738	14.93711
#2	14.79015	385.6025	2.475447	1.260885	400.2775	2.470895	14.79418
#3	14.83759	386.5836	2.489448	1.264927	399.4889	2.474676	15.07773

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	151.3998	5.051933	5.082563	4.846058	5.034424	4.874822	4.994141
Stddev	.1178	.017115	.010512	.015377	.029016	.012166	.026389
%RSD	.0778321	.3387786	.2068206	.3173097	.5763548	.2495675	.5284090
#1	151.3066	5.035948	5.070440	4.842472	5.004138	4.874494	4.986308
#2	151.3604	5.049862	5.088115	4.832791	5.037156	4.887148	4.972554
#3	151.5322	5.069989	5.089136	4.862911	5.061977	4.862823	5.023560

Reviewed By:Jaswal
On:12/14/2024 4:08:47 AM
Inst Id :P5

Sample Name: CCV088 Acquired: 12/04/2024 18:56:31 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v765) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV088 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	4.939882	5.042447	4.705723
Stddev	.003323	.006714	.018441
%RSD	.0672644	.1331484	.3918751
#1	4.937057	5.041550	4.726408
#2	4.939046	5.049564	4.699754
#3	4.943543	5.036226	4.691006

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1051.672	32706.10	7056.683	923.3194	1582.579
Stddev	2.217	17.04	12.764	4.2814	6.050
%RSD	.2108456	.0520896	.1808806	.4636954	.3823060
#1	1052.072	32694.29	7063.738	922.5573	1582.899
#2	1053.661	32725.63	7041.948	927.9306	1588.463
#3	1049.281	32698.38	7064.362	919.4702	1576.375

Reviewed By:Jaswal
On:12/14/2024 4:08:47 AM
Inst Id :P5

Sample Name: CCB088 Acquired: 12/04/2024 19:00:31 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v765) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB088 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002431	.0036384	.0012093	.0009378	-.000927	.0413309
Stddev	.0023807	.0050531	.0012906	.0062461	.002745	.0012052
%RSD	979.3942	138.8827	106.7177	666.0527	295.9776	2.915896
#1	.0018812	.0039677	.0024103	-.002964	-.003840	.0426361
#2	-.002488	-.001571	-.000155	-.002365	-.000553	.0410962
#3	.001336	.008519	.001373	.008142	.001611	.0402603

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0008769	.0000843	.0001595	-.004477	.0013333	.0003131
Stddev	.0001628	.0001035	.0001057	.006620	.0001424	.0005276
%RSD	18.56612	122.8757	66.24182	147.8794	10.67778	168.4981
#1	.0006924	.0000266	.0002733	-.012067	.0014929	.0004611
#2	.0009383	.0002038	.0001410	.000102	.0012878	.0007509
#3	.0010001	.0000224	.0000643	-.001465	.0012193	-.000273

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0009418	.0180996	.0006162	.0531404	-.000137	.0002182
Stddev	.0005265	.0036828	.0004913	.0329420	.000457	.0002233
%RSD	55.89994	20.34723	79.72492	61.99050	334.2944	102.3144
#1	.0014314	.0223093	.0009210	.0797586	-.000173	-.000016
#2	.0010092	.0154733	.0000495	.0633640	.000337	.000241
#3	.0003849	.0165163	.0008783	.0162988	-.000574	.000429

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0397825	.0023785	-.004496	-.019351	-.000246	-.002519
Stddev	.0785036	.0014054	.006125	.029299	.002485	.000543
%RSD	197.3320	59.08841	136.2281	151.4114	1011.259	21.53503
#1	.1299235	.0028388	.000973	-.036451	.001289	-.001893
#2	.0030050	.0034961	-.011115	-.036082	-.003113	-.002813
#3	-.013581	.0008006	-.003348	.014481	.001086	-.002851

Reviewed By:Jaswal
On:12/14/2024 4:08:47 AM
Inst Id :P5

Sample Name: CCB088 Acquired: 12/04/2024 19:00:31 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v765) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB088 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000219	.0008156	.0010699	F -.012315	.0019905	-.004335
Stddev	.000379	.0062216	.0004859	.000333	.0006054	.001332
%RSD	172.9646	762.8140	45.41443	2.707714	30.41563	30.71328
#1	.000127	-.005951	.0008165	-.012394	.0026768	-.005085
#2	-.000161	.002108	.0007630	-.012603	.0017627	-.002798
#3	-.000623	.006289	.0016300	-.011950	.0015321	-.005123

Elem	Sr4077
Units	ppm
Avg	.0002881
Stddev	.0000600
%RSD	20.81981
#1	.0002453
#2	.0003567
#3	.0002624

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1265.100	37796.20	7298.500	1099.211	2218.199
Stddev	.947	122.08	17.450	6.255	4.935
%RSD	.0748268	.3229973	.2390856	.5690896	.2224669
#1	1264.257	37695.05	7318.175	1092.244	2214.248
#2	1264.919	37761.75	7292.424	1104.345	2223.730
#3	1266.124	37931.80	7284.900	1101.044	2216.618

Reviewed By:Jaswal
On:12/14/2024 4:08:47 AM
Inst Id :P5

Sample Name: PB165289BS Acquired: 12/04/2024 19:08:33 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v765) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: LCS289 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0203387	.0590179	.0216217	.0711629	.1261981	.4395075	.4496066
Stddev	.0042759	.0039833	.0010408	.0038004	.0011326	.0050226	.0008277
%RSD	21.02326	6.749253	4.813685	5.340347	.8974966	1.142771	.1840877
#1	.0217497	.0632338	.0226247	.0684642	.1264343	.4450391	.4500906
#2	.0155357	.0585024	.0205468	.0695156	.1271940	.4382508	.4500782
#3	.0237308	.0553174	.0216937	.0755090	.1249660	.4352326	.4486509

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0118699	.0108527	11.76582	.0240699	.1090355	.0583879	.2285440
Stddev	.0000785	.0001212	.05071	.0010596	.0003156	.0011581	.0025971
%RSD	.6613994	1.116805	.4310302	4.402103	.2894489	1.983549	1.136375
#1	.0117797	.0109913	11.71240	.0230862	.1088662	.0593697	.2311816
#2	.0119228	.0108007	11.77173	.0251918	.1093997	.0571106	.2259893
#3	.0119073	.0107662	11.81331	.0239318	.1088408	.0586833	.2284610

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0375885	11.00933	.0925040	.0223403	11.23127	.1180941	.1490822
Stddev	.0005560	.01911	.0004925	.0002317	.30440	.0028095	.0036063
%RSD	1.479278	.1735591	.5324050	1.037127	2.710328	2.379021	2.419022
#1	.0374540	11.02066	.0920140	.0225937	10.88300	.1206284	.1531914
#2	.0381995	11.02006	.0924991	.0221393	11.44655	.1185808	.1476119
#3	.0371121	10.98727	.0929990	.0222879	11.36425	.1150730	.1464432

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	10.70530	.0172453	-.008336	.0223251	.2129392	.4880783	.0014975
Stddev	.06086	.0006136	.001444	.0003230	.0061717	.0013410	.0008113
%RSD	.5684863	3.558203	17.32916	1.446600	2.898334	.2747470	54.17705
#1	10.65624	.0174038	-.009886	.0219761	.2153629	.4890467	.0012744
#2	10.77340	.0165680	-.007028	.0223858	.2175310	.4886405	.0023969
#3	10.68625	.0177641	-.008093	.0226134	.2059235	.4865478	.0008211

Reviewed By:Jaswal
On:12/14/2024 4:08:47 AM
Inst Id :P5

Sample Name: PB165289BS Acquired: 12/04/2024 19:08:33 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v765) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: LCS289 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.2241806	.0228096	.2372536
Stddev	.0006268	.0012973	.0000236
%RSD	.2795887	5.687564	.0099580
#1	.2237531	.0221711	.2372402
#2	.2249001	.0243024	.2372397
#3	.2238886	.0219553	.2372809

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1252.383	37382.25	7326.402	1086.854	2114.010
Stddev	1.302	38.32	26.128	1.222	3.113
%RSD	.1039927	.1025123	.3566220	.1124094	.1472590
#1	1251.289	37390.86	7353.235	1086.300	2113.035
#2	1252.036	37340.36	7301.042	1088.255	2111.502
#3	1253.824	37415.54	7324.929	1086.007	2117.494

Reviewed By:Jaswal
On:12/14/2024 4:08:47 AM
Inst Id :P5

Sample Name: PB165289BL Acquired: 12/04/2024 19:18:33 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v765) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: PBW289 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.003699	.0028865	.0005828	-.000540	.0009315	.0002198
Stddev	.001782	.0039054	.0009075	.004391	.0029095	.0083007
%RSD	48.18789	135.2974	155.7235	813.6624	312.3636	3776.954
#1	-.004381	.0033089	.0016280	.003819	-.002416	.0097707
#2	-.001676	-.001213	.0001250	-.000476	.002857	-.005253
#3	-.005039	.006564	-.000005	-.004962	.002353	-.003858

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000131	.0000020	.0000393	-.000018	-.000612	.0003651
Stddev	.000351	.0000683	.0000637	.002763	.000255	.0001168
%RSD	266.9166	3427.991	162.0826	15020.19	41.62665	31.98210
#1	.000185	-.000075	.0001097	.000321	-.000819	.0002606
#2	-.000509	.000024	-.000014	-.002935	-.000327	.0003436
#3	-.000070	.000056	.000022	.002559	-.000691	.0004911

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0091261	-.013076	-.000782	.0170807	-.000429	.0001398
Stddev	.0010051	.003757	.000330	.0039881	.000392	.0003591
%RSD	11.01324	28.73098	42.25391	23.34862	91.41173	256.9318
#1	.0097839	-.015794	-.000756	.0143850	-.000843	-.000275
#2	.0096252	-.014647	-.000465	.0151952	-.000063	.000338
#3	.0079691	-.008789	-.001125	.0216620	-.000380	.000356

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1098043	.0023765	-.003433	-.177117	-.001479	-.012620
Stddev	.1840710	.0017051	.002836	.039341	.003137	.001151
%RSD	167.6355	71.74631	82.60153	22.21159	212.0313	9.123674
#1	-.080070	.0028267	-.000416	-.220221	.000007	-.012767
#2	.287463	.0004915	-.006044	-.143146	-.005083	-.013691
#3	.122020	.0038113	-.003838	-.167984	.000638	-.011402

Reviewed By:Jaswal
On:12/14/2024 4:08:47 AM
Inst Id :P5

Sample Name: PB165289BL Acquired: 12/04/2024 19:18:33 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v765) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: PBW289 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000380	-.001732	-.000723	F -.012395	-.000627	-.011735
Stddev	.000259	.004303	.001301	.001188	.001576	.000516
%RSD	68.12994	248.5352	180.0023	9.580925	251.4027	4.395250
#1	-.000413	.000665	-.000891	-.012216	-.001148	-.011523
#2	-.000106	-.006700	.000654	-.013663	.001144	-.011358
#3	-.000621	.000840	-.001932	-.011308	-.001877	-.012322

Elem	Sr4077
Units	ppm
Avg	-.000083
Stddev	.000035
%RSD	41.70661
#1	-.000075
#2	-.000121
#3	-.000053

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1261.678	37683.61	7289.257	1094.961	2210.648
Stddev	2.617	166.54	32.587	6.114	3.836
%RSD	.2074452	.4419394	.4470581	.5583985	.1735256
#1	1259.028	37524.87	7314.454	1088.227	2206.662
#2	1261.744	37668.97	7252.456	1100.163	2210.965
#3	1264.261	37856.98	7300.860	1096.495	2214.315

Reviewed By:Jaswal
On:12/14/2024 4:08:47 AM
Inst Id :P5

Sample Name: PB165325BL Acquired: 12/04/2024 19:22:34 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v765) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: PBS325 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0010643	.0012131	.0003410	-.002806	.0005882	.0028578
Stddev	.0039152	.0029196	.0014302	.007253	.0017793	.0024193
%RSD	367.8673	240.6823	419.3612	258.4893	302.5104	84.65520
#1	.0003356	-.002154	-.000637	-.000656	-.000832	.0037478
#2	-.002435	.002745	-.000323	-.010890	.000012	.0001196
#3	.005293	.003048	.001982	.003129	.002584	.0047062

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000264	-.000023	-.000117	-.004028	-.000294	.0000220
Stddev	.000189	.000071	.000139	.015311	.000594	.0001103
%RSD	71.69569	305.9400	118.2772	380.1193	202.2465	500.5049
#1	-.000340	.000046	-.000200	.001741	-.000551	.0000602
#2	-.000048	-.000096	.000043	.007560	-.000716	.0001081
#3	-.000403	-.000020	-.000195	-.021385	.000386	-.000102

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0099915	-.004452	-.000801	.0154994	-.000542	-.000047
Stddev	.0014465	.005878	.000416	.0099581	.000083	.000242
%RSD	14.47698	132.0095	51.86889	64.24821	15.35919	515.0148
#1	.0083798	-.004210	-.000368	.0251519	-.000553	.000193
#2	.0111770	-.010448	-.001196	.0052615	-.000620	-.000290
#3	.0104177	.001300	-.000840	.0160849	-.000454	-.000044

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.008780	.0038465	-.005190	-.167966	-.002753	-.011099
Stddev	.123532	.0016714	.003033	.015265	.002463	.001155
%RSD	1406.929	43.45139	58.43443	9.088367	89.48280	10.40995
#1	-.016330	.0040302	-.002637	-.150544	-.005180	-.010037
#2	-.128364	.0054185	-.008542	-.174357	-.002822	-.012329
#3	.118353	.0020909	-.004390	-.178997	-.000256	-.010931

Reviewed By:Jaswal
On:12/14/2024 4:08:47 AM
Inst Id :P5

Sample Name: PB165325BL Acquired: 12/04/2024 19:22:34 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v765) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: PBS325 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000502	.0009439	-.001211	F -.012569	.0008262	F -.015373
Stddev	.000150	.0036223	.000809	.001389	.0002145	.001061
%RSD	29.77659	383.7531	66.76271	11.04885	25.96043	6.900827
#1	-.000665	.0049607	-.001047	-.013605	.0005799	-.014202
#2	-.000472	-.000054	-.000498	-.013112	.0009721	-.015648
#3	-.000370	-.002075	-.002090	-.010991	.0009266	-.016270

Elem	Sr4077
Units	ppm
Avg	-.000141
Stddev	.000023
%RSD	16.31688
#1	-.000166
#2	-.000135
#3	-.000121

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1266.187	37746.20	7318.693	1093.414	2216.821
Stddev	.561	200.10	24.490	6.905	7.229
%RSD	.0443364	.5301065	.3346285	.6315175	.3261091
#1	1266.125	37565.79	7300.473	1088.381	2214.761
#2	1266.777	37711.40	7346.533	1090.575	2224.857
#3	1265.659	37961.41	7309.073	1101.286	2210.845

Reviewed By:Jaswal
On:12/14/2024 4:08:47 AM
Inst Id :P5

Sample Name: PB165325BS Acquired: 12/04/2024 19:26:34 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v765) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: LCS325 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0243900	.0560730	.0199927	.0659244	.1228500	.4147125
Stddev	.0027509	.0016453	.0014962	.0025673	.0010242	.0015681
%RSD	11.27875	2.934156	7.483929	3.894364	.8336835	.3781277
#1	.0259470	.0559051	.0185593	.0630965	.1216937	.4160272
#2	.0212137	.0545182	.0215447	.0681087	.1232135	.4151334
#3	.0260091	.0577958	.0198742	.0665681	.1236429	.4129769

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4428597	.0116756	.0108708	11.55807	.0239986	.1072010
Stddev	.0008005	.0000213	.0000672	.04989	.0006257	.0004051
%RSD	.1807485	.1819989	.6182471	.4316495	2.607417	.3778823
#1	.4430904	.0116513	.0108996	11.61512	.0244026	.1074888
#2	.4435194	.0116849	.0109189	11.53644	.0232778	.1073765
#3	.4419692	.0116907	.0107940	11.52264	.0243154	.1067378

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0554506	.2252027	.0372859	10.78560	.0909459	.0213236
Stddev	.0009671	.0187752	.0005701	.09520	.0003087	.0001149
%RSD	1.743995	8.337003	1.529128	.8826435	.3394159	.5389439
#1	.0543735	.2086979	.0379394	10.89139	.0906280	.0213247
#2	.0562442	.2456289	.0368906	10.70684	.0909651	.0214380
#3	.0557342	.2212813	.0370276	10.75858	.0912445	.0212082

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	10.94208	.1166637	.1454966	10.40197	F .0270937	F -.011481
Stddev	.19996	.0033444	.0031512	.02466	.0021889	.000692
%RSD	1.827412	2.866717	2.165844	.2371172	8.079149	6.028397
#1	10.83560	.1132864	.1446688	10.42638	.0294615	-.011264
#2	10.81791	.1167305	.1428418	10.37706	.0251440	-.012256
#3	11.17275	.1199742	.1489791	10.40246	.0266757	-.010923

Reviewed By:Jaswal
On:12/14/2024 4:08:47 AM
Inst Id :P5

Sample Name: PB165325BS Acquired: 12/04/2024 19:26:34 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v765) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: LCS325 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0218879	.2049524	F .4779908	F .0028883	.2183906	F .0172168
Stddev	.0002496	.0017235	.0037067	.0017069	.0007889	.0010373
%RSD	1.140321	.8409409	.7754800	59.09659	.3612361	6.024930
#1	.0216840	.2068756	.4820606	.0011451	.2175959	.0173078
#2	.0221662	.2035476	.4771036	.0045564	.2184022	.0161370
#3	.0218134	.2044339	.4748082	.0029635	.2191736	.0182056

Elem	Sr4077
Units	ppm
Avg	.2327312
Stddev	.0005378
%RSD	.2310737
#1	.2333438
#2	.2325128
#3	.2323370

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1256.326	37375.03	7388.784	1089.354	2118.124
Stddev	3.152	70.56	54.277	1.537	6.515
%RSD	.2508684	.1887887	.7345913	.1410889	.3075951
#1	1253.339	37400.58	7326.191	1090.875	2111.235
#2	1256.019	37429.25	7422.824	1089.385	2124.187
#3	1259.620	37295.25	7417.339	1087.802	2118.951

Reviewed By:Jaswal
On:12/14/2024 4:08:47 AM
Inst Id :P5

Sample Name: P5015-03 Acquired: 12/04/2024 19:30:34 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v765) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKJ8 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0626894	-.008614	3.235236	.0043530	.0103728	65.54164
Stddev	.0076415	.000947	.017487	.0013822	.0022369	.16600
%RSD	12.18942	10.99902	.5405224	31.75356	21.56461	.2532730
#1	.0562841	-.007521	3.215238	.0057329	.0108313	65.69437
#2	.0711477	-.009141	3.242815	.0029685	.0123450	65.36497
#3	.0606366	-.009182	3.247655	.0043577	.0079423	65.56557

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.858008	.0061355	.0079373	103.3777	.1289268	.0677107
Stddev	.007294	.0000744	.0002532	.3721	.0005679	.0005360
%RSD	.3925623	1.212792	3.190047	.3599413	.4404626	.7916434
#1	1.865833	.0061806	.0078201	103.6934	.1295376	.0676361
#2	1.851397	.0060496	.0077639	102.9675	.1288280	.0672159
#3	1.856794	.0061763	.0082278	103.4723	.1284148	.0682801

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4739803	127.5236	5.782000	28.16290	.1810359	-.003574
Stddev	.0015363	.2111	.008801	.01541	.0015794	.000338
%RSD	.3241181	.1655259	.1522152	.0547109	.8724113	9.453454
#1	.4746792	127.6032	5.791977	28.17302	.1795512	-.003655
#2	.4750429	127.2843	5.775339	28.17050	.1826954	-.003864
#3	.4722189	127.6834	5.778683	28.14516	.1808610	-.003203

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.460150	.1806623	2.575714	10.21082	F 16.31683	.1641316
Stddev	.126060	.0016535	.003612	.10254	.08964	.0012888
%RSD	8.633352	.9152400	.1402367	1.004214	.5493915	.7852385
#1	1.314603	.1822888	2.578075	10.28506	16.22750	.1628025
#2	1.531146	.1789830	2.577511	10.09382	16.31621	.1642162
#3	1.534702	.1807152	2.571555	10.25358	16.40678	.1653760

Reviewed By:Jaswal
On:12/14/2024 4:08:47 AM
Inst Id :P5

Sample Name: P5015-03 Acquired: 12/04/2024 19:30:34 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v765) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKJ8 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0062355	5.032080	8.490866	.1249084	1.300918	.0839171
Stddev	.0002657	.023974	.049785	.0007185	.004277	.0009895
%RSD	4.260628	.4764202	.5863338	.5752170	.3287516	1.179172
#1	.0065383	5.004467	8.466654	.1253611	1.301575	.0848284
#2	.0061268	5.044188	8.457818	.1240799	1.296352	.0828645
#3	.0060414	5.047585	8.548125	.1252841	1.304829	.0840584

Elem	Sr4077
Units	ppm
Avg	.1786956
Stddev	.0006269
%RSD	.3508178
#1	.1791920
#2	.1789036
#3	.1779911

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1409.266	42688.48	8629.485	1223.315	1954.699
Stddev	3.019	108.88	32.140	5.124	7.667
%RSD	.2141932	.2550598	.3724426	.4188470	.3922253
#1	1411.082	42564.78	8619.484	1217.475	1963.522
#2	1410.935	42730.91	8665.436	1225.415	1950.927
#3	1405.782	42769.76	8603.535	1227.056	1949.650

Reviewed By:Jaswal
On:12/14/2024 4:08:47 AM
Inst Id :P5

Sample Name: P5015-04 Acquired: 12/04/2024 19:34:25 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v765) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKJ9 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0747405	-.015016	3.684250	-.001212	.0114469	77.44139
Stddev	.0050019	.004135	.031399	.007908	.0049978	.14352
%RSD	6.692378	27.53496	.8522534	652.5881	43.66073	.1853284
#1	.0795873	-.010949	3.658715	.002036	.0143024	77.36020
#2	.0695967	-.019215	3.674727	-.010226	.0143623	77.35687
#3	.0750375	-.014885	3.719309	.004555	.0056761	77.60711

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.431407	.0071154	.0112014	168.4662	.1486018	.0864352
Stddev	.000667	.0000796	.0001085	.1840	.0004687	.0007454
%RSD	.0274495	1.118742	.9688440	.1092129	.3154255	.8623909
#1	2.432159	.0071768	.0110957	168.6318	.1491425	.0860114
#2	2.430884	.0070255	.0111960	168.2681	.1483116	.0859984
#3	2.431179	.0071439	.0113125	168.4986	.1483512	.0872959

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6127285	152.7597	6.872945	33.08255	.2316600	-.004363
Stddev	.0027145	.6208	.013024	.03786	.0022781	.000236
%RSD	.4430208	.4063949	.1894963	.1144432	.9833615	5.416769
#1	.6150107	152.7432	6.886703	33.07567	.2298333	-.004095
#2	.6134481	152.1473	6.860807	33.04861	.2309341	-.004542
#3	.6097267	153.3886	6.871324	33.12339	.2342125	-.004453

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.029576	.2145544	3.090672	11.89213	F 22.71512	.2050764
Stddev	.248837	.0020100	.021197	.06558	.22551	.0005439
%RSD	6.175275	.9368197	.6858329	.5514931	.9927831	.2652066
#1	4.095319	.2135117	3.105098	11.86158	22.51754	.2045526
#2	3.754468	.2168714	3.066336	11.84740	22.66700	.2056383
#3	4.238941	.2132799	3.100583	11.96742	22.96080	.2050384

Reviewed By:Jaswal
On:12/14/2024 4:08:47 AM
Inst Id :P5

Sample Name: P5015-04 Acquired: 12/04/2024 19:34:25 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v765) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKJ9 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0082495	4.749003	8.025331	.1622249	1.558443	.1035089
Stddev	.0004631	.044955	.032607	.0021372	.003813	.0010710
%RSD	5.613989	.9466232	.4062997	1.317438	.2446712	1.034736
#1	.0081251	4.706246	8.048535	.1603705	1.558590	.1045630
#2	.0087621	4.744890	8.039407	.1617418	1.554559	.1024217
#3	.0078613	4.795874	7.988051	.1645623	1.562181	.1035421

Elem	Sr4077
Units	ppm
Avg	.2961064
Stddev	.0008489
%RSD	.2866759
#1	.2969892
#2	.2960338
#3	.2952961

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1426.642	43183.25	8811.469	1243.625	1898.148
Stddev	5.317	14.73	28.556	7.032	12.450
%RSD	.3727178	.0341184	.3240765	.5654757	.6558893
#1	1431.301	43166.83	8783.298	1237.491	1909.109
#2	1427.776	43195.31	8810.714	1251.300	1900.723
#3	1420.849	43187.62	8840.395	1242.083	1884.612

Reviewed By:Jaswal
On:12/14/2024 4:08:47 AM
Inst Id :P5

Sample Name: P5015-05 Acquired: 12/04/2024 19:38:18 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v765) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKK0 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0888676	-.016010	F 57.38271	-.010168	.0072181	77.80075
Stddev	.0087494	.002038	.39065	.004188	.0020689	.27583
%RSD	9.845386	12.72700	.6807719	41.18958	28.66257	.3545289
#1	.0906136	-.017448	57.40424	-.014222	.0052100	77.65880
#2	.0793770	-.016905	56.98175	-.005858	.0093428	78.11865
#3	.0966124	-.013678	57.76216	-.010423	.0071014	77.62482

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.220059	.0071772	.0126903	181.4646	.2430617	.0965278
Stddev	.005314	.0001269	.0003285	.3012	.0011867	.0009350
%RSD	.2393424	1.767739	2.588443	.1659648	.4882215	.9686443
#1	2.218808	.0072324	.0127307	181.2045	.2443786	.0974851
#2	2.225886	.0072672	.0123435	181.7946	.2427312	.0956168
#3	2.215482	.0070321	.0129968	181.3947	.2420753	.0964814

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5564803	174.3665	7.525388	34.11734	.3079933	-.006390
Stddev	.0021023	.3646	.019673	.11087	.0021717	.000129
%RSD	.3777911	.2090893	.2614159	.3249740	.7051241	2.013955
#1	.5541963	174.0557	7.506975	34.06755	.3094170	-.006389
#2	.5569100	174.7678	7.546115	34.24437	.3054937	-.006261
#3	.5583346	174.2758	7.523073	34.04008	.3090693	-.006519

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.645620	.2400254	3.398849	11.86166	F 22.00353	.2171965
Stddev	.071699	.0015395	.016144	.04654	.13843	.0014971
%RSD	4.356936	.6414051	.4749782	.3923885	.6291101	.6892959
#1	1.578201	.2384365	3.410866	11.81429	21.98414	.2158920
#2	1.720944	.2415104	3.405181	11.90733	21.87582	.2188311
#3	1.637716	.2401292	3.380499	11.86335	22.15062	.2168663

Reviewed By:Jaswal
On:12/14/2024 4:08:47 AM
Inst Id :P5

Sample Name: P5015-05 Acquired: 12/04/2024 19:38:18 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v765) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKK0 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0088210	4.358725	7.582895	.3715940	2.352241	.1015372
Stddev	.0002520	.033464	.006740	.0049571	.009513	.0014786
%RSD	2.856843	.7677469	.0888828	1.333996	.4044219	1.456259
#1	.0085713	4.355770	7.575418	.3741244	2.348240	.1024791
#2	.0088165	4.326836	7.588503	.3658824	2.363101	.1022995
#3	.0090753	4.393568	7.584764	.3747751	2.345383	.0998329

Elem	Sr4077
Units	ppm
Avg	.3303322
Stddev	.0009055
%RSD	.2741117
#1	.3303389
#2	.3312344
#3	.3294235

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1426.284	43156.67	8857.273	1237.437	1883.701
Stddev	4.632	244.57	5.844	6.361	9.200
%RSD	.3247742	.5666942	.0659843	.5140525	.4883872
#1	1424.163	42891.59	8857.974	1231.003	1879.816
#2	1431.597	43204.90	8851.110	1237.586	1894.205
#3	1423.091	43373.54	8862.735	1243.723	1877.080

Reviewed By:Jaswal
On:12/14/2024 4:08:47 AM
Inst Id :P5

Sample Name: P5015-06 Acquired: 12/04/2024 19:42:11 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v765) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKK1 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0578607	-.016265	5.583397	-.010482	.0072988	68.39435
Stddev	.0040726	.002879	.026617	.001786	.0039047	1.10784
%RSD	7.038594	17.70371	.4767136	17.04420	53.49793	1.619785
#1	.0543272	-.013175	5.574464	-.011725	.0060828	67.70846
#2	.0623148	-.016746	5.562397	-.011285	.0041468	67.80215
#3	.0569400	-.018874	5.613332	-.008434	.0116668	69.67243

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.477950	.0059906	.0068780	187.7040	.1103651	.0794729
Stddev	.023949	.0000572	.0000623	3.4173	.0008620	.0010001
%RSD	1.620410	.9555450	.9053822	1.820590	.7810397	1.258422
#1	1.463113	.0059247	.0068077	185.9041	.1102401	.0794203
#2	1.465159	.0060198	.0069003	185.5628	.1112827	.0785001
#3	1.505579	.0060273	.0069261	191.6451	.1095724	.0804982

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2972463	145.1792	8.522700	37.61981	.1540586	-.006570
Stddev	.0070631	2.1101	.146461	.62079	.0005257	.000286
%RSD	2.376188	1.453476	1.718477	1.650161	.3412223	4.349666
#1	.2932718	143.9834	8.439455	37.33917	.1535117	-.006897
#2	.2930658	143.9385	8.436833	37.18890	.1545601	-.006444
#3	.3054012	147.6156	8.691811	38.33137	.1541042	-.006368

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.124296	.1787269	1.753598	8.391125	F 18.95439	.1603475
Stddev	.197137	.0077765	.006263	.167189	.06471	.0025406
%RSD	9.280089	4.351033	.3571626	1.992451	.3414185	1.584447
#1	1.898548	.1752129	1.756731	8.294224	18.94580	.1589968
#2	2.262488	.1733277	1.746386	8.294974	18.89441	.1587676
#3	2.211854	.1876402	1.757677	8.584178	19.02297	.1632782

Reviewed By:Jaswal
On:12/14/2024 4:08:47 AM
Inst Id :P5

Sample Name: P5015-06 Acquired: 12/04/2024 19:42:11 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v765) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKK1 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0056148	3.313308	7.264338	.0866734	1.360375	.0950109
Stddev	.0005021	.021969	.119458	.0021872	.019481	.0025672
%RSD	8.942937	.6630634	1.644449	2.523537	1.431998	2.701993
#1	.0055343	3.311089	7.222791	.0891543	1.348255	.0939731
#2	.0051578	3.292533	7.171201	.0850233	1.350023	.0931251
#3	.0061523	3.336303	7.399023	.0858426	1.382846	.0979345

Elem	Sr4077
Units	ppm
Avg	.2604125
Stddev	.0051521
%RSD	1.978422
#1	.2568954
#2	.2580158
#3	.2663263

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1464.568	44073.00	8979.084	1266.356	1895.716
Stddev	3.657	30.01	125.478	4.564	6.186
%RSD	.2496967	.0680961	1.397447	.3604108	.3262885
#1	1462.959	44076.43	9030.060	1267.514	1895.494
#2	1468.754	44041.42	9071.051	1261.324	1902.010
#3	1461.992	44101.15	8836.140	1270.229	1889.645

Reviewed By:Jaswal
On:12/14/2024 4:08:47 AM
Inst Id :P5

Sample Name: P5015-07 Acquired: 12/04/2024 19:46:03 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v765) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKK2 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0479049	-.020492	.6844450	-.013797	.0048402	47.66218
Stddev	.0160013	.003017	.0017928	.002978	.0009680	.22465
%RSD	33.40214	14.72112	.2619306	21.58348	20.00009	.4713470
#1	.0410297	-.023461	.6835602	-.015101	.0054181	47.76090
#2	.0364902	-.017430	.6832668	-.015900	.0037226	47.40507
#3	.0661947	-.020586	.6865082	-.010389	.0053799	47.82057

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.041518	.0041879	.0041455	628.6943	.0758215	.0697387
Stddev	.004385	.0001114	.0000535	6.5496	.0012305	.0002375
%RSD	.4210532	2.660327	1.290209	1.041786	1.622838	.3405619
#1	1.045090	.0042922	.0042054	625.7179	.0759051	.0694780
#2	1.036624	.0040706	.0041287	624.1614	.0745513	.0699426
#3	1.042841	.0042009	.0041025	636.2036	.0770080	.0697955

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2314817	133.5993	10.67283	92.58074	.1354726	-.007258
Stddev	.0014598	.8037	.06739	.55630	.0005454	.000065
%RSD	.6306555	.6015673	.6314040	.6008847	.4026075	.8936289
#1	.2325714	134.0165	10.66606	92.44435	.1360957	-.007191
#2	.2298230	132.6728	10.60908	92.10532	.1352402	-.007321
#3	.2320506	134.1086	10.74335	93.19256	.1350819	-.007262

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.502480	.1353660	.9397437	7.572974	F 11.02656	.1417558
Stddev	.047924	.0010664	.0205330	.038955	.01882	.0004272
%RSD	3.189685	.7877719	2.184959	.5144016	.1706652	.3013877
#1	1.464613	.1359849	.9493493	7.609333	11.04435	.1422379
#2	1.486467	.1341347	.9161684	7.531859	11.02848	.1416059
#3	1.556361	.1359785	.9537133	7.577729	11.00686	.1414238

Reviewed By:Jaswal
On:12/14/2024 4:08:47 AM
Inst Id :P5

Sample Name: P5015-07 Acquired: 12/04/2024 19:46:03 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v765) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKK2 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0036166	1.622796	7.520919	.0185833	1.113896	.0704013
Stddev	.0003446	.008427	.086400	.0020054	.004748	.0013881
%RSD	9.528963	.5192879	1.148799	10.79158	.4262359	1.971734
#1	.0033081	1.631835	7.530526	.0170326	1.115616	.0716890
#2	.0035531	1.621398	7.430116	.0208480	1.108528	.0689309
#3	.0039885	1.615156	7.602114	.0178693	1.117545	.0705839

Elem	Sr4077
Units	ppm
Avg	.5323684
Stddev	.0017217
%RSD	.3234095
#1	.5331137
#2	.5303996
#3	.5335920

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1328.716	40582.57	8475.601	1161.952	1722.063
Stddev	1.933	573.58	47.475	17.518	1.944
%RSD	.1454718	1.413356	.5601427	1.507669	.1128934
#1	1328.377	40417.17	8481.789	1152.037	1719.831
#2	1330.796	41220.67	8519.678	1182.179	1723.387
#3	1326.975	40109.86	8425.334	1151.640	1722.970

Reviewed By:Jaswal
On:12/14/2024 4:08:47 AM
Inst Id :P5

Sample Name: P5015-08 Acquired: 12/04/2024 19:50:06 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v765) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKK3 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0553894	-.016993	.4734733	-.014689	.0042889	43.11217
Stddev	.0089910	.004715	.0008107	.008554	.0017679	.05502
%RSD	16.23236	27.74909	.1712260	58.23030	41.22109	.1276270
#1	.0561650	-.021428	.4740122	-.004999	.0050678	43.17545
#2	.0639675	-.012040	.4738667	-.021190	.0055335	43.07560
#3	.0460357	-.017509	.4725409	-.017879	.0022652	43.08547

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9640497	.0037832	.0029266	F 852.2142	.0697160	.0703303
Stddev	.0029587	.0000490	.0000704	4.6091	.0008728	.0006436
%RSD	.3069019	1.295582	2.405230	.5408365	1.251860	.9150862
#1	.9663188	.0038369	.0030077	847.1886	.0688142	.0709182
#2	.9607033	.0037719	.0028910	853.2099	.0705565	.0704300
#3	.9651269	.0037408	.0028812	856.2441	.0697772	.0696427

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2630096	135.4893	10.24726	129.0371	.1323786	-.008511
Stddev	.0008220	.2737	.04161	.1850	.0006560	.000154
%RSD	.3125300	.2020376	.4060314	.1433479	.4955347	1.808560
#1	.2624531	135.7743	10.29302	129.2461	.1324422	-.008543
#2	.2639537	135.2284	10.21170	128.9708	.1330005	-.008344
#3	.2626219	135.4652	10.23706	128.8944	.1316932	-.008647

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.693882	.1287878	.6329536	7.981829	8.988903	.1463189
Stddev	.194985	.0064870	.0067266	.038873	.016849	.0011642
%RSD	11.51111	5.036975	1.062725	.4870172	.1874400	.7956262
#1	1.883893	.1240800	.6407073	8.026701	8.977977	.1471791
#2	1.494278	.1361874	.6286811	7.958402	9.008307	.1467833
#3	1.703476	.1260961	.6294725	7.960383	8.980425	.1449942

Reviewed By:Jaswal
On:12/14/2024 4:08:47 AM
Inst Id :P5

Sample Name: P5015-08 Acquired: 12/04/2024 19:50:06 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v765) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKK3 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0030284	1.487261	7.263180	.0088420	1.041546	.0702586
Stddev	.0002896	.015294	.023224	.0014816	.001533	.0018526
%RSD	9.562738	1.028356	.3197538	16.75648	.1471383	2.636795
#1	.0028288	1.473663	7.281795	.0074087	1.043118	.0681305
#2	.0028959	1.484302	7.270590	.0087498	1.040056	.0711345
#3	.0033605	1.503819	7.237155	.0103676	1.041463	.0715109

Elem	Sr4077
Units	ppm
Avg	.7850083
Stddev	.0018985
%RSD	.2418442
#1	.7867786
#2	.7830034
#3	.7852429

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1298.460	39307.99	8416.345	1126.894	1663.274
Stddev	.772	32.41	15.430	1.626	2.447
%RSD	.0594652	.0824427	.1833396	.1443114	.1471448
#1	1297.572	39344.03	8403.629	1125.379	1660.462
#2	1298.973	39298.69	8411.895	1128.612	1664.435
#3	1298.836	39281.24	8433.512	1126.692	1664.925

Reviewed By:Jaswal
On:12/14/2024 4:08:47 AM
Inst Id :P5

Sample Name: P5015-09 Acquired: 12/04/2024 19:54:09 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v765) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKK4 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0661347	-.021487	.1948865	-.015606	.0038404	42.77535
Stddev	.0057888	.001846	.0076632	.001502	.0013193	.13607
%RSD	8.753065	8.591079	3.932127	9.627494	34.35368	.3181037
#1	.0605728	-.020847	.1860472	-.017339	.0029486	42.82857
#2	.0657050	-.020047	.1996590	-.014822	.0032167	42.62071
#3	.0721265	-.023568	.1989533	-.014658	.0053559	42.87676

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4441648	.0033299	.0024858	F 1224.522	.0637842	.0761905
Stddev	.0007932	.0000916	.0002888	1.873	.0004962	.0005175
%RSD	.1785767	2.750919	11.61678	.1529515	.7779588	.6792587
#1	.4446193	.0034129	.0025500	1226.631	.0642285	.0765791
#2	.4432490	.0033453	.0021703	1223.054	.0638754	.0756031
#3	.4446263	.0032316	.0027371	1223.880	.0632487	.0763895

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2853646	111.6374	9.260782	199.0786	.1321640	-.007490
Stddev	.0028883	.3057	.021699	.8101	.0010750	.000233
%RSD	1.012156	.2738741	.2343061	.4069106	.8134032	3.111561
#1	.2821042	111.6932	9.285823	199.0695	.1331581	-.007383
#2	.2876027	111.3076	9.248987	198.2732	.1310232	-.007329
#3	.2863870	111.9115	9.247535	199.8932	.1323108	-.007757

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.668180	.0987672	.4636144	10.20201	F 34.87040	.1469749
Stddev	.081360	.0023511	.0032487	.03665	.18169	.0015019
%RSD	3.049278	2.380415	.7007386	.3592447	.5210504	1.021846
#1	2.743006	.1009224	.4608654	10.23926	34.76464	.1460208
#2	2.679963	.0962599	.4627784	10.16600	34.76637	.1487061
#3	2.581571	.0991193	.4671994	10.20077	35.08020	.1461978

Reviewed By:Jaswal
On:12/14/2024 4:08:47 AM
Inst Id :P5

Sample Name: P5015-09 Acquired: 12/04/2024 19:54:09 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v765) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKK4 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0020062	2.342462	8.202103	-.005156	.9596495	.0799091
Stddev	.0004231	.014516	.031128	.002443	.0034233	.0010409
%RSD	21.08844	.6196911	.3795103	47.38746	.3567204	1.302638
#1	.0016087	2.336992	8.235801	-.002337	.9574674	.0788221
#2	.0024509	2.331476	8.196086	-.006673	.9578861	.0808969
#3	.0019590	2.358918	8.174424	-.006458	.9635949	.0800084

Elem	Sr4077
Units	ppm
Avg	1.122002
Stddev	.001922
%RSD	.1712853
#1	1.123961
#2	1.120120
#3	1.121925

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1339.929	40445.51	8828.581	1159.960	1560.218
Stddev	2.993	29.33	29.410	6.588	6.977
%RSD	.2233901	.0725136	.3331256	.5679406	.4471805
#1	1339.574	40444.88	8795.989	1156.326	1564.618
#2	1343.085	40475.14	8853.140	1155.989	1563.862
#3	1337.130	40416.50	8836.613	1167.564	1552.173

Reviewed By:Jaswal
On:12/14/2024 4:08:47 AM
Inst Id :P5

Sample Name: P5015-10 Acquired: 12/04/2024 19:58:13 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v765) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKL2 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0531465	-.014051	1.433059	.0042047	.0035197	80.14504
Stddev	.0065229	.004172	.005385	.0019705	.0017363	3.88963
%RSD	12.27334	29.69384	.3757470	46.86398	49.33140	4.853238
#1	.0587269	-.014305	1.439236	.0022076	.0047533	78.15849
#2	.0459754	-.009758	1.429354	.0042589	.0042715	84.62678
#3	.0547371	-.018091	1.430588	.0061475	.0015342	77.64984

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.540477	.0072426	.0044262	59.21439	.1307013	.0813568
Stddev	.075885	.0004473	.0002768	2.81449	.0006306	.0002770
%RSD	4.926055	6.175258	6.253486	4.753058	.4824862	.3405397
#1	1.503394	.0069941	.0046101	57.68652	.1311885	.0810575
#2	1.627773	.0077589	.0041079	62.46239	.1299890	.0814087
#3	1.490265	.0069747	.0045607	57.49426	.1309262	.0816042

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3334259	148.4993	6.867282	21.00712	.1918566	-.005598
Stddev	.0157537	7.4582	.330028	1.00987	.0006478	.000581
%RSD	4.724800	5.022377	4.805797	4.807253	.3376333	10.38124
#1	.3243512	144.4364	6.688553	20.40122	.1914575	-.005609
#2	.3516167	157.1068	7.248126	22.17291	.1926040	-.005012
#3	.3243098	143.9548	6.665167	20.44723	.1915083	-.006174

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.298082	.1809987	1.365865	10.35225	F 18.34154	.1680440
Stddev	.341183	.0128396	.016572	.66080	.05349	.0096681
%RSD	26.28362	7.093732	1.213282	6.383192	.2916141	5.753323
#1	1.667802	.1736079	1.347948	10.03903	18.35719	.1627028
#2	1.231065	.1958245	1.369004	11.11143	18.28197	.1792044
#3	.995381	.1735636	1.380643	9.90630	18.38545	.1622249

Reviewed By:Jaswal
On:12/14/2024 4:08:47 AM
Inst Id :P5

Sample Name: P5015-10 Acquired: 12/04/2024 19:58:13 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v765) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKL2 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0048767	5.580468	8.539596	.0938477	1.314044	.1014940
Stddev	.0002086	.007341	.409961	.0024629	.066627	.0072265
%RSD	4.277878	.1315493	4.800707	2.624403	5.070415	7.120096
#1	.0048986	5.572410	8.293298	.0910328	1.278976	.0984331
#2	.0046580	5.586776	9.012846	.0956061	1.390881	.1097472
#3	.0050735	5.582217	8.312643	.0949043	1.272274	.0963017

Elem	Sr4077
Units	ppm
Avg	.0629291
Stddev	.0028904
%RSD	4.593116
#1	.0614956
#2	.0662561
#3	.0610357

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1489.819	44924.38	8738.296	1283.031	1991.373
Stddev	.909	149.38	379.007	2.948	4.100
%RSD	.0610392	.3325217	4.337308	.2298039	.2058906
#1	1488.779	44753.07	8956.144	1286.095	1987.065
#2	1490.211	44992.53	8300.658	1282.785	1991.828
#3	1490.467	45027.53	8958.085	1280.214	1995.227

Reviewed By:Jaswal
On:12/14/2024 4:08:47 AM
Inst Id :P5

Sample Name: P5015-11 Acquired: 12/04/2024 20:02:07 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v765) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKL3 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0536487	-.009793	1.887248	-.000998	.0065697	73.48315
Stddev	.0057324	.000700	.008962	.003012	.0033668	.09108
%RSD	10.68506	7.146359	.4748742	301.7161	51.24778	.1239444
#1	.0559957	-.009073	1.877094	.001876	.0051816	73.51704
#2	.0578352	-.010471	1.890598	-.004132	.0041189	73.37999
#3	.0471152	-.009836	1.894053	-.000740	.0104087	73.55243

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.495609	.0066925	.0048048	57.95212	.1222200	.0758462
Stddev	.002365	.0001444	.0000552	.26272	.0002943	.0008413
%RSD	.1581371	2.157546	1.149002	.4533438	.2407979	1.109179
#1	1.494002	.0066187	.0048243	57.97033	.1224175	.0749072
#2	1.494500	.0065999	.0047425	57.68076	.1223607	.0761000
#3	1.498324	.0068588	.0048477	58.20526	.1218817	.0765313

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3452500	134.4014	6.589776	18.82935	.1759250	-.005295
Stddev	.0007781	.0461	.017547	.01718	.0011216	.000220
%RSD	.2253696	.0342835	.2662821	.0912282	.6375150	4.162805
#1	.3444443	134.4091	6.597778	18.84689	.1747375	-.005042
#2	.3453083	134.4431	6.569654	18.81256	.1760711	-.005440
#3	.3459972	134.3519	6.601897	18.82859	.1769663	-.005404

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.294376	.1703208	1.326475	9.207858	F 16.55404	.1590461
Stddev	.041244	.0018521	.015897	.026302	.05953	.0016125
%RSD	3.186364	1.087427	1.198446	.2856504	.3596303	1.013854
#1	1.248308	.1682155	1.317228	9.237247	16.48543	.1587906
#2	1.306957	.1716994	1.344831	9.199798	16.58464	.1607711
#3	1.327865	.1710475	1.317365	9.186529	16.59205	.1575767

Reviewed By:Jaswal
On:12/14/2024 4:08:47 AM
Inst Id :P5

Sample Name: P5015-11 Acquired: 12/04/2024 20:02:07 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v765) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKL3 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0048712	4.925143	9.446934	.0902705	1.389785	.0953211
Stddev	.0002485	.024083	.049214	.0023424	.005263	.0010587
%RSD	5.101729	.4889758	.5209526	2.594905	.3786800	1.110643
#1	.0051497	4.898587	9.476454	.0877409	1.386201	.0942713
#2	.0047918	4.945567	9.390121	.0907057	1.387328	.0953036
#3	.0046721	4.931276	9.474226	.0923647	1.395827	.0963884

Elem	Sr4077
Units	ppm
Avg	.0777982
Stddev	.0001915
%RSD	.2461833
#1	.0779814
#2	.0775993
#3	.0778138

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1460.748	44263.22	8868.111	1269.019	1998.756
Stddev	4.089	202.71	33.894	4.950	5.142
%RSD	.2798969	.4579723	.3822063	.3900906	.2572658
#1	1463.515	44304.04	8830.768	1269.264	2003.446
#2	1456.052	44043.21	8896.929	1263.950	1993.258
#3	1462.677	44442.43	8876.635	1273.841	1999.563

Reviewed By:Jaswal
On:12/14/2024 4:08:47 AM
Inst Id :P5

Sample Name: P5015-12 Acquired: 12/04/2024 20:06:00 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v765) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKL4 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0730913	-.014402	1.213508	-.002772	.0201783	68.95702
Stddev	.0059865	.004811	.005902	.006446	.0032959	.16607
%RSD	8.190403	33.40188	.4863616	232.5096	16.33377	.2408329
#1	.0769574	-.013948	1.207515	.003865	.0239738	68.85135
#2	.0761209	-.019424	1.213695	-.003174	.0180382	68.87128
#3	.0661956	-.009835	1.219315	-.009007	.0185230	69.14844

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.567539	.0065673	.0044785	58.10346	.1044396	.0807083
Stddev	.004281	.0000132	.0000506	.25106	.0008478	.0010048
%RSD	.2730744	.2009866	1.129657	.4320877	.8117344	1.244984
#1	1.562756	.0065684	.0044526	57.81493	.1049165	.0809099
#2	1.568850	.0065799	.0044462	58.22332	.1049415	.0796180
#3	1.571011	.0065536	.0045368	58.27212	.1034608	.0815971

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3664081	179.5998	7.080548	18.23055	.1750480	-.008241
Stddev	.0010398	.0821	.025066	.09429	.0003128	.000477
%RSD	.2837707	.0456864	.3540149	.5172221	.1787188	5.791184
#1	.3656304	179.5135	7.051796	18.16160	.1746923	-.007752
#2	.3660048	179.6092	7.092039	18.33800	.1751710	-.008266
#3	.3675891	179.6768	7.097808	18.19205	.1752806	-.008705

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.470369	.1730344	1.225298	8.259993	F 16.19058	.1956724
Stddev	.162861	.0032121	.012558	.063343	.03111	.0007945
%RSD	11.07622	1.856326	1.024869	.7668605	.1921340	.4060609
#1	1.656296	.1766702	1.212306	8.227317	16.18914	.1954423
#2	1.352972	.1718517	1.226219	8.219661	16.16021	.1950182
#3	1.401838	.1705814	1.237371	8.333001	16.22238	.1965566

Reviewed By:Jaswal
On:12/14/2024 4:08:47 AM
Inst Id :P5

Sample Name: P5015-12 Acquired: 12/04/2024 20:06:00 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v765) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKL4 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0059345	4.239129	8.149178	.1142642	1.210077	.0886409
Stddev	.0004571	.008615	.033652	.0000466	.001369	.0010238
%RSD	7.701600	.2032375	.4129477	.0407353	.1130978	1.155020
#1	.0054982	4.248859	8.172023	.1142192	1.208571	.0880349
#2	.0064098	4.236059	8.164977	.1142612	1.210414	.0880647
#3	.0058953	4.232469	8.110534	.1143122	1.211246	.0898230

Elem	Sr4077
Units	ppm
Avg	.0393149
Stddev	.0004222
%RSD	1.073850
#1	.0389465
#2	.0392226
#3	.0397756

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1448.936	43670.68	8764.224	1254.882	2000.107
Stddev	.426	114.97	10.108	4.147	1.628
%RSD	.0294089	.2632732	.1153343	.3304621	.0814163
#1	1448.948	43619.41	8752.724	1257.649	1998.230
#2	1449.356	43802.37	8768.248	1256.883	2001.150
#3	1448.504	43590.26	8771.701	1250.114	2000.940

Reviewed By:Jaswal
On:12/14/2024 4:08:47 AM
Inst Id :P5

Sample Name: P5015-13 Acquired: 12/04/2024 20:09:54 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v765) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKM5 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0426652	-.023300	.1501879	-.003770	.0054542	46.40784	.6316950
Stddev	.0044413	.001879	.0028176	.008057	.0018044	.06594	.0024668
%RSD	10.40956	8.064489	1.876025	213.7260	33.08261	.1420876	.3905063
#1	.0429604	-.021420	.1469404	-.001055	.0075060	46.35661	.6330814
#2	.0380837	-.023302	.1516411	-.012833	.0041146	46.38467	.6331566
#3	.0469515	-.025178	.1519821	.002579	.0047420	46.48224	.6288469

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0037290	.0011028	300.9039	.0692569	.0508276	.1621878	132.5703
Stddev	.0001724	.0000172	.6686	.0004384	.0002545	.0044022	.6144
%RSD	4.623896	1.559702	.2222056	.6329466	.5007683	2.714267	.4634713
#1	.0037181	.0010837	301.0628	.0697422	.0506714	.1571509	132.0080
#2	.0035622	.0011076	301.4788	.0688897	.0506902	.1641139	132.4770
#3	.0039066	.0011171	300.1702	.0691388	.0511213	.1652988	133.2261

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	13.72833	85.55119	.1193071	-.006828	1.463897	.1189282	.3696363
Stddev	.04679	.48124	.0011095	.000087	.045869	.0020578	.0045961
%RSD	.3408439	.5625218	.9299840	1.277025	3.133326	1.730290	1.243417
#1	13.74331	85.02994	.1190342	-.006899	1.516138	.1196848	.3704228
#2	13.76580	85.64502	.1183595	-.006731	1.445330	.1205007	.3737883
#3	13.67588	85.97861	.1205276	-.006855	1.430222	.1165993	.3646976

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.776847	7.042182	.1360285	-.000048	.7797749	5.977966	-.000752
Stddev	.060035	.037160	.0027241	.000358	.0201651	.013841	.001812
%RSD	1.039238	.5276830	2.002586	742.9826	2.586021	.2315323	241.0982
#1	5.753310	7.038439	.1343628	-.000005	.7757991	5.978870	.000863
#2	5.732148	7.007035	.1345505	.000286	.7618938	5.991333	-.002711
#3	5.845085	7.081073	.1391721	-.000426	.8016319	5.963695	-.000407

Reviewed By:Jaswal
On:12/14/2024 4:08:47 AM
Inst Id :P5

Sample Name: P5015-13 Acquired: 12/04/2024 20:09:54 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v765) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKM5 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	1.068721	.0649678	.1686342
Stddev	.000631	.0003744	.0010011
%RSD	.0590456	.5763147	.5936284
#1	1.069393	.0650174	.1694629
#2	1.068140	.0645711	.1689177
#3	1.068631	.0653150	.1675220

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1377.221	41652.84	8579.792	1191.785	1831.235
Stddev	7.424	13.42	11.363	2.984	10.145
%RSD	.5390742	.0322248	.1324437	.2503550	.5540198
#1	1373.692	41661.08	8584.602	1195.027	1825.687
#2	1385.752	41660.10	8566.815	1189.155	1842.944
#3	1372.220	41637.35	8587.960	1191.173	1825.073

Reviewed By:Jaswal
On:12/14/2024 4:08:47 AM
Inst Id :P5

Sample Name: P5015-14 Acquired: 12/04/2024 20:13:48 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v765) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKQ2 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0531769	-.014682	.1633125	-.021419	.0060401	39.64219
Stddev	.0066007	.005643	.0028913	.005743	.0042991	.30400
%RSD	12.41275	38.43540	1.770406	26.81311	71.17636	.7668481
#1	.0471071	-.020850	.1599762	-.018199	.0068954	39.58657
#2	.0522196	-.013417	.1650857	-.018008	.0013776	39.36985
#3	.0602040	-.009779	.1648758	-.028049	.0098473	39.97016

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5263370	.0040405	.0005579	F 933.4293	.0670785	.0586622
Stddev	.0032392	.0000389	.0001404	3.0881	.0008274	.0002676
%RSD	.6154272	.9631902	25.16184	.3308374	1.233466	.4560804
#1	.5251723	.0040595	.0004717	930.1920	.0679298	.0589527
#2	.5238411	.0039958	.0004822	936.3428	.0662773	.0586078
#3	.5299975	.0040663	.0007199	933.7530	.0670283	.0584260

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1760829	153.4038	6.786064	384.7293	.0988525	-.009490
Stddev	.0041471	.8241	.050569	2.6689	.0005405	.000274
%RSD	2.355170	.5372099	.7451939	.6937178	.5468273	2.886347
#1	.1719501	153.1826	6.752219	384.2114	.0993966	-.009780
#2	.1802441	152.7128	6.761777	382.3573	.0983155	-.009453
#3	.1760545	154.3159	6.844195	387.6193	.0988456	-.009236

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.250780	.1287258	.5198060	8.045816	7.218763	.1770840
Stddev	.294937	.0002038	.0163603	.031056	.027797	.0009675
%RSD	13.10378	.1583536	3.147385	.3859940	.3850726	.5463237
#1	1.910447	.1288685	.5156826	8.013441	7.230713	.1780119
#2	2.410067	.1284924	.5059018	8.048647	7.186989	.1760813
#3	2.431825	.1288166	.5378335	8.075360	7.238588	.1771590

Reviewed By:Jaswal
On:12/14/2024 4:08:47 AM
Inst Id :P5

Sample Name: P5015-14 Acquired: 12/04/2024 20:13:48 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v765) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKQ2 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0009464	1.637764	7.091878	.0025987	1.002927	.0648836
Stddev	.0003506	.007540	.048551	.0013779	.003089	.0004751
%RSD	37.05143	.4603571	.6845970	53.02415	.3080034	.7321867
#1	.0013025	1.633752	7.076271	.0018065	1.002607	.0646971
#2	.0006014	1.633078	7.053050	.0017998	1.000010	.0654236
#3	.0009353	1.646461	7.146313	.0041898	1.006163	.0645301

Elem	Sr4077
Units	ppm
Avg	.3030708
Stddev	.0021107
%RSD	.6964348
#1	.3023331
#2	.3014279
#3	.3054513

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1236.051	37573.30	8065.729	1071.833	1591.027
Stddev	.770	46.26	27.917	5.300	3.767
%RSD	.0623265	.1231246	.3461195	.4944344	.2367397
#1	1236.918	37616.38	8084.495	1074.069	1586.872
#2	1235.788	37524.40	8079.045	1075.649	1594.217
#3	1235.446	37579.11	8033.647	1065.782	1591.991

Reviewed By:Jaswal
On:12/14/2024 4:08:47 AM
Inst Id :P5

Sample Name: CCV089 Acquired: 12/04/2024 20:17:53 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v765) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV089 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.859635	4.631511	24.68566	4.811526	4.821508	403.0867	10.05154
Stddev	.014277	.008224	.04524	.009002	.010033	1.5577	.01645
%RSD	.2937774	.1775647	.1832487	.1870842	.2080865	.3864393	.1636481
#1	4.875264	4.628182	24.71664	4.817923	4.814484	404.8848	10.03294
#2	4.856361	4.625474	24.63375	4.801233	4.817041	402.1481	10.06415
#3	4.847280	4.640878	24.70660	4.815422	4.832999	402.2272	10.05754

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5017881	2.483748	393.5319	15.55363	2.493840	15.03156	406.8904
Stddev	.0016163	.001928	.2563	.02095	.001860	.00799	1.0152
%RSD	.3221111	.0776357	.0651368	.1347044	.0745969	.0531485	.2494981
#1	.5029600	2.485284	393.6629	15.57769	2.494358	15.02444	407.6798
#2	.4999442	2.481584	393.2365	15.53941	2.491776	15.04020	405.7452
#3	.5024602	2.484376	393.6963	15.54378	2.495387	15.03004	407.2462

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	14.69419	384.9512	2.463302	1.271603	399.1223	2.477848	14.52865
Stddev	.00618	1.2594	.004612	.002638	.6484	.006745	.06338
%RSD	.0420291	.3271528	.1872351	.2074545	.1624624	.2722139	.4362225
#1	14.70120	386.0331	2.467836	1.274540	398.9306	2.481566	14.51745
#2	14.69184	383.5687	2.458616	1.270835	398.5913	2.470062	14.59688
#3	14.68954	385.2518	2.463453	1.269434	399.8449	2.481915	14.47162

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	151.7039	5.072852	5.089974	4.825887	5.075985	4.871392	4.973018
Stddev	.0757	.005999	.018634	.005886	.010992	.016246	.008835
%RSD	.0499206	.1182586	.3660902	.1219742	.2165568	.3334914	.1776686
#1	151.6414	5.072430	5.098976	4.822596	5.065103	4.878061	4.980127
#2	151.6821	5.067076	5.068548	4.822382	5.075767	4.852873	4.963126
#3	151.7881	5.079052	5.102396	4.832682	5.087084	4.883241	4.975800

Reviewed By:Jaswal
On:12/14/2024 4:08:47 AM
Inst Id :P5

Sample Name: CCV089 Acquired: 12/04/2024 20:17:53 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v765) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV089 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	4.938867	5.066370	4.735867
Stddev	.005100	.006470	.006921
%RSD	.1032723	.1277045	.1461506
#1	4.934437	5.059143	4.737234
#2	4.937720	5.068343	4.728364
#3	4.944443	5.071623	4.742002

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1059.801	32834.95	7090.319	929.3003	1586.849
Stddev	1.496	46.65	31.124	2.3282	2.159
%RSD	.1411721	.1420826	.4389697	.2505378	.1360306
#1	1060.748	32801.77	7068.395	927.8129	1586.799
#2	1060.578	32888.29	7125.943	928.1046	1589.032
#3	1058.076	32814.78	7076.619	931.9835	1584.716

Reviewed By:Jaswal
On:12/14/2024 4:08:47 AM
Inst Id :P5

Sample Name: CCB089 Acquired: 12/04/2024 20:21:52 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v765) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB089 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.003612	.0020703	.0016785	.0009089	.0000483	.0644779
Stddev	.002572	.0007029	.0007132	.0036234	.0026317	.0041993
%RSD	71.20713	33.95220	42.48796	398.6393	5448.886	6.512841
#1	-.000650	.0018104	.0023820	-.002845	.0020482	.0668951
#2	-.004903	.0028661	.0016974	.004385	.0010297	.0669097
#3	-.005282	.0015343	.0009561	.001187	-.002933	.0596289

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0004830	.0000189	.0001660	-.005353	.0009510	.0002657
Stddev	.0002360	.0000534	.0000907	.007392	.0003875	.0002869
%RSD	48.86168	282.8621	54.67695	138.0746	40.75122	107.9818
#1	.0007163	.0000550	.0002403	-.013319	.0011915	.0003387
#2	.0004884	.0000442	.0001928	-.004027	.0005039	-.000051
#3	.0002444	-.000043	.0000648	.001286	.0011575	.000509

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0035206	.0192707	.0006753	.0397439	-.000083	-.000259
Stddev	.0019055	.0048290	.0001871	.0052169	.000137	.000078
%RSD	54.12340	25.05890	27.70739	13.12626	165.1661	30.10661
#1	.0023326	.0225660	.0004693	.0450341	-.000214	-.000287
#2	.0025108	.0137275	.0007219	.0346036	-.000092	-.000318
#3	.0057184	.0215187	.0008346	.0395939	.000058	-.000170

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0774229	.0024539	-.004481	-.103601	.0020267	-.004908
Stddev	.1385682	.0039046	.003902	.051329	.0033745	.000888
%RSD	178.9757	159.1172	87.07775	49.54459	166.5024	18.08920
#1	.1294246	.0038459	-.006736	-.162365	.0058545	-.004790
#2	.1824679	-.001956	-.006730	-.080904	.0007441	-.004086
#3	-.079624	.005472	.000025	-.067534	-.000518	-.005850

Reviewed By:Jaswal
On:12/14/2024 4:08:47 AM
Inst Id :P5

Sample Name: CCB089 Acquired: 12/04/2024 20:21:52 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v765) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB089 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0004911	.0028360	-.000150	F -.013250	.0001147	-.010753
Stddev	.0003222	.0061858	.000636	.001174	.0002109	.000866
%RSD	65.61368	218.1144	424.0923	8.858272	183.9655	8.052975
#1	.0005588	-.003891	.000132	-.014520	.0001377	-.009891
#2	.0007741	.004119	.000296	-.012206	-.000107	-.010746
#3	.0001404	.008280	-.000878	-.013025	.000313	-.011622

Elem	Sr4077
Units	ppm
Avg	.0001794
Stddev	.0000409
%RSD	22.81124
#1	.0002171
#2	.0001851
#3	.0001359

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1272.088	37839.07	7354.000	1096.486	2218.929
Stddev	2.198	143.98	36.462	4.280	9.336
%RSD	.1728074	.3805009	.4958052	.3903524	.4207460
#1	1273.822	37724.62	7329.138	1092.022	2208.929
#2	1272.826	37791.87	7395.857	1096.880	2227.416
#3	1269.616	38000.72	7337.006	1100.555	2220.441

Reviewed By:Jaswal
On:12/14/2024 4:08:47 AM
Inst Id :P5

Sample Name: P5015-15 Acquired: 12/04/2024 20:25:53 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v765) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKQ3 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0582460	-.008856	2.767411	.0031488	.0085258	63.34860
Stddev	.0095915	.005462	.006651	.0070906	.0034194	.13596
%RSD	16.46722	61.68175	.2403160	225.1834	40.10636	.2146259
#1	.0687963	-.015094	2.760248	-.003404	.0096726	63.19240
#2	.0558889	-.004927	2.773389	.002175	.0046805	63.41309
#3	.0500528	-.006547	2.768598	.010676	.0112245	63.44033

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.760064	.0060224	.0073846	99.65105	.1224287	.0655300
Stddev	.002694	.0000795	.0000528	.20835	.0007410	.0004920
%RSD	.1530895	1.319330	.7150875	.2090776	.6052303	.7508166
#1	1.758570	.0061014	.0074264	99.60431	.1216493	.0649621
#2	1.758448	.0060233	.0074021	99.47004	.1231240	.0658281
#3	1.763175	.0059425	.0073252	99.87879	.1225129	.0657998

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4520022	126.9280	5.408710	26.35890	.1783216	-.003956
Stddev	.0034519	.2863	.007894	.09183	.0013222	.000377
%RSD	.7636837	.2255778	.1459408	.3483657	.7414780	9.539745
#1	.4559868	126.6045	5.403226	26.30073	.1768413	-.004333
#2	.4500973	127.1489	5.405148	26.31121	.1793853	-.003956
#3	.4499226	127.0306	5.417757	26.46475	.1787383	-.003579

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.484572	.1724862	2.486323	10.37116	F 17.02588	.1669744
Stddev	.143075	.0010353	.017324	.03665	.06085	.0014048
%RSD	9.637432	.6002456	.6967755	.3534087	.3573930	.8413021
#1	1.370665	.1727080	2.478410	10.37621	16.96444	.1682403
#2	1.437894	.1713579	2.506190	10.33224	17.02710	.1672198
#3	1.645156	.1733926	2.474368	10.40502	17.08611	.1654631

Reviewed By:Jaswal
On:12/14/2024 4:08:47 AM
Inst Id :P5

Sample Name: P5015-15 Acquired: 12/04/2024 20:25:53 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v765) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKQ3 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0065196	4.857641	11.00411	.1137237	1.324912	.0831130
Stddev	.0002403	.009905	.04317	.0013835	.001357	.0011336
%RSD	3.685843	.2039143	.3923325	1.216559	.1024154	1.363875
#1	.0067954	4.853220	11.02111	.1127232	1.323506	.0818104
#2	.0063552	4.850716	10.95502	.1153026	1.326214	.0838753
#3	.0064082	4.868987	11.03619	.1131454	1.325016	.0836533

Elem	Sr4077
Units	ppm
Avg	.1645357
Stddev	.0002969
%RSD	.1804338
#1	.1644871
#2	.1648539
#3	.1642661

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1399.930	42308.71	8537.248	1207.037	1955.065
Stddev	2.990	290.58	36.516	7.207	.885
%RSD	.2136026	.6868126	.4277252	.5970689	.0452752
#1	1396.697	41983.37	8495.579	1198.716	1954.973
#2	1402.597	42400.30	8563.669	1211.241	1955.993
#3	1400.494	42542.46	8552.495	1211.155	1954.229

Reviewed By:Jaswal
On:12/14/2024 4:08:47 AM
Inst Id :P5

Sample Name: P5015-16 Acquired: 12/04/2024 20:29:46 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v765) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKQ5 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0648511	-.015226	3.757745	-.006891	.0041877	55.67431
Stddev	.0019743	.001521	.007480	.000698	.0036286	.11582
%RSD	3.044324	9.989994	.1990588	10.12794	86.64869	.2080358
#1	.0642040	-.016866	3.749844	-.007653	.0012550	55.54619
#2	.0670677	-.013862	3.764718	-.006283	.0030625	55.77160
#3	.0632816	-.014950	3.758672	-.006738	.0082457	55.70513

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.128189	.0053408	.0056895	118.1772	.1074693	.0668742
Stddev	.003229	.0000493	.0000722	.2750	.0004800	.0002332
%RSD	.2862239	.9235937	1.268508	.2326718	.4466253	.3487022
#1	1.125023	.0053680	.0056119	118.0124	.1075643	.0667254
#2	1.131478	.0053706	.0057547	118.4947	.1078946	.0671430
#3	1.128066	.0052839	.0057020	118.0246	.1069489	.0667543

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.161897	133.1901	8.316118	34.70320	.1558872	-.004995
Stddev	.002893	.1572	.013504	.02409	.0002902	.000212
%RSD	.2490000	.1180283	.1623858	.0694079	.1861587	4.244458
#1	1.165207	133.0088	8.306437	34.67605	.1556626	-.005181
#2	1.160635	133.2729	8.331545	34.71157	.1557840	-.005040
#3	1.159849	133.2886	8.310372	34.72199	.1562149	-.004764

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.455738	.1281146	1.578549	7.701403	F 11.49539	.1687405
Stddev	.141475	.0011493	.005611	.038734	.03074	.0009151
%RSD	9.718453	.8970852	.3554571	.5029476	.2674325	.5423022
#1	1.574280	.1276557	1.585026	7.745002	11.45991	.1681680
#2	1.493811	.1294224	1.575473	7.688242	11.51237	.1682576
#3	1.299122	.1272656	1.575149	7.670964	11.51391	.1697958

Reviewed By:Jaswal
On:12/14/2024 4:08:47 AM
Inst Id :P5

Sample Name: P5015-16 Acquired: 12/04/2024 20:29:46 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v765) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKQ5 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0042681	5.061043	9.507878	.0678190	.9233166	.0559397
Stddev	.0002283	.023880	.049456	.0033677	.0019674	.0014131
%RSD	5.348090	.4718335	.5201555	4.965734	.2130773	2.526145
#1	.0040509	5.033797	9.456731	.0668425	.9214841	.0543804
#2	.0045060	5.078339	9.511455	.0650474	.9230702	.0563027
#3	.0042475	5.070993	9.555449	.0715670	.9253956	.0571358

Elem	Sr4077
Units	ppm
Avg	.0564515
Stddev	.0001349
%RSD	.2389153
#1	.0563116
#2	.0564619
#3	.0565808

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1412.666	42567.45	8620.516	1223.793	1955.545
Stddev	.545	119.50	24.797	1.840	1.942
%RSD	.0385720	.2807228	.2876502	.1503838	.0993325
#1	1413.076	42485.72	8648.830	1223.520	1957.749
#2	1412.874	42512.04	8602.666	1222.104	1954.803
#3	1412.048	42704.59	8610.053	1225.755	1954.083

Reviewed By:Jaswal
On:12/14/2024 4:08:47 AM
Inst Id :P5

Sample Name: P5015-20 Acquired: 12/04/2024 20:33:38 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v765) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKQ7 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0874490	-.026406	2.594745	-.007591	.0045536	63.29896
Stddev	.0033933	.001901	.005416	.000728	.0015646	.14569
%RSD	3.880367	7.198908	.2087350	9.594248	34.36012	.2301629
#1	.0841443	-.028601	2.588567	-.007055	.0032746	63.14424
#2	.0909245	-.025316	2.598676	-.007297	.0040880	63.31914
#3	.0872781	-.025302	2.596992	-.008420	.0062982	63.43352

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.695654	.0060597	.0047989	214.5050	.1047729	.0905767
Stddev	.002940	.0001082	.0002742	.5643	.0011346	.0003535
%RSD	.1733717	1.786030	5.714676	.2630757	1.082924	.3902512
#1	1.692372	.0060385	.0047216	213.8605	.1040007	.0908836
#2	1.696546	.0059637	.0045716	214.7445	.1060756	.0901902
#3	1.698045	.0061770	.0051035	214.9102	.1042425	.0906564

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4055554	172.2344	13.79486	49.40904	.1594732	-.006834
Stddev	.0035106	.3724	.03020	.17392	.0010913	.000071
%RSD	.8656311	.2162026	.2189502	.3520075	.6843434	1.035177
#1	.4053839	171.8045	13.76026	49.21734	.1587402	-.006895
#2	.4021337	172.4535	13.80840	49.55674	.1607274	-.006757
#3	.4091487	172.4453	13.81593	49.45303	.1589520	-.006851

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.804997	.1458378	1.085212	6.306018	F 11.93246	.1810399
Stddev	.092582	.0038388	.005480	.039611	.01698	.0007526
%RSD	5.129181	2.632255	.5049510	.6281524	.1423264	.4157176
#1	1.909728	.1418427	1.087754	6.281841	11.93800	.1808772
#2	1.771205	.1461723	1.078922	6.351732	11.91340	.1803820
#3	1.734058	.1494985	1.088958	6.284481	11.94598	.1818606

Reviewed By:Jaswal
On:12/14/2024 4:08:47 AM
Inst Id :P5

Sample Name: P5015-20 Acquired: 12/04/2024 20:33:38 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v765) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKQ7 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0048787	3.373250	9.937645	.0820098	.9570680	.0714678
Stddev	.0002676	.008322	.014969	.0014800	.0035461	.0008433
%RSD	5.485430	.2466991	.1506311	1.804691	.3705148	1.179932
#1	.0046686	3.367196	9.925952	.0832361	.9537630	.0705058
#2	.0047876	3.369814	9.954516	.0824276	.9608139	.0718182
#3	.0051800	3.382739	9.932468	.0803658	.9566271	.0720794

Elem	Sr4077
Units	ppm
Avg	.1232230
Stddev	.0002441
%RSD	.1980716
#1	.1234593
#2	.1229718
#3	.1232379

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1425.965	43121.91	8800.814	1233.459	1872.252
Stddev	4.002	79.55	5.629	.826	3.309
%RSD	.2806692	.1844829	.0639616	.0669947	.1767228
#1	1429.564	43034.78	8795.263	1233.833	1875.753
#2	1426.677	43190.67	8806.518	1234.033	1871.824
#3	1421.655	43140.30	8800.661	1232.512	1869.177

Reviewed By:Jaswal
On:12/14/2024 4:08:47 AM
Inst Id :P5

Sample Name: P5015-21 Acquired: 12/04/2024 20:37:30 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v765) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKQ8 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0570013	-.025248	.8442006	-.008922	.0085418	56.89249
Stddev	.0100704	.002987	.0041088	.011699	.0018960	.09429
%RSD	17.66698	11.82903	.4867119	131.1320	22.19632	.1657348
#1	.0620974	-.025904	.8473747	.002226	.0090516	56.87498
#2	.0454015	-.021988	.8395597	-.021104	.0064430	56.80817
#3	.0635051	-.027852	.8456675	-.007888	.0101307	56.99430

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.273318	.0051532	.0026874	489.8283	.0909741	.0827944
Stddev	.000686	.0001734	.0000960	.6850	.0005389	.0012171
%RSD	.0539064	3.364778	3.571440	.1398481	.5924241	1.470036
#1	1.274063	.0049691	.0026598	489.2040	.0905304	.0837772
#2	1.272712	.0053134	.0027941	489.7199	.0908179	.0831731
#3	1.273180	.0051769	.0026082	490.5611	.0915739	.0814330

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3215464	155.8175	12.13201	85.65966	.1424337	-.007454
Stddev	.0006929	.1413	.02634	.20616	.0005226	.000138
%RSD	.2154970	.0907068	.2170797	.2406776	.3669075	1.851917
#1	.3218158	155.8291	12.10950	85.46354	.1423925	-.007350
#2	.3220641	155.6707	12.12555	85.64085	.1429756	-.007611
#3	.3207592	155.9526	12.16097	85.87458	.1419329	-.007402

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.621738	.1317699	.6385270	6.780914	F 10.62416	.1633422
Stddev	.078899	.0012728	.0072095	.053064	.01009	.0018420
%RSD	4.865096	.9659276	1.129084	.7825548	.0949439	1.127708
#1	1.577492	.1309071	.6320893	6.800555	10.63154	.1615813
#2	1.712830	.1332317	.6463169	6.720829	10.62826	.1652558
#3	1.574891	.1311710	.6371749	6.821357	10.61266	.1631896

Reviewed By:Jaswal
On:12/14/2024 4:08:47 AM
Inst Id :P5

Sample Name: P5015-21 Acquired: 12/04/2024 20:37:30 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v765) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKQ8 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0027722	2.221864	8.269443	.0226537	.8256594	.0710251
Stddev	.0002079	.006684	.028820	.0051727	.0023832	.0011369
%RSD	7.501083	.3008290	.3485158	22.83379	.2886369	1.600653
#1	.0025323	2.229548	8.245493	.0284239	.8264718	.0720305
#2	.0028837	2.218649	8.261408	.0184325	.8229763	.0712534
#3	.0029006	2.217395	8.301428	.0211047	.8275301	.0697914

Elem	Sr4077
Units	ppm
Avg	.2948233
Stddev	.0005601
%RSD	.1899729
#1	.2943992
#2	.2946125
#3	.2954582

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1368.184	41266.60	8614.528	1177.103	1761.110
Stddev	1.738	44.52	14.041	1.913	3.496
%RSD	.1270610	.1078922	.1629923	.1624924	.1985356
#1	1366.529	41215.45	8627.361	1177.467	1757.526
#2	1369.996	41287.62	8616.692	1175.035	1764.511
#3	1368.027	41296.71	8599.530	1178.808	1761.292

Reviewed By:Jaswal
On:12/14/2024 4:08:47 AM
Inst Id :P5

Sample Name: P5015-22 Acquired: 12/04/2024 20:41:25 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v765) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKQ9 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0592026	-.022730	.7468482	-.010064	.0046083	69.14944
Stddev	.0086994	.006407	.0029212	.002529	.0036903	.05609
%RSD	14.69428	28.18992	.3911361	25.12563	80.07972	.0811166
#1	.0688733	-.021265	.7474982	-.009272	.0088400	69.08862
#2	.0520139	-.029743	.7436568	-.012894	.0020591	69.19914
#3	.0567206	-.017182	.7493897	-.008026	.0029257	69.16056

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.484662	.0057753	.0029214	153.4691	.1023932	.0898022
Stddev	.002783	.0002235	.0000470	.2127	.0026699	.0006145
%RSD	.1874211	3.869056	1.608572	.1386053	2.607506	.6842403
#1	1.481762	.0060333	.0028886	153.2563	.1036262	.0905105
#2	1.484916	.0056494	.0029753	153.4692	.0993296	.0894850
#3	1.487310	.0056432	.0029005	153.6818	.1042237	.0894112

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3015740	164.4577	11.75738	36.62438	.1478098	-.007521
Stddev	.0011222	.0378	.01885	.08664	.0008867	.000710
%RSD	.3721072	.0230005	.1603070	.2365617	.5999068	9.436070
#1	.3013644	164.4437	11.73830	36.72015	.1481878	-.007794
#2	.3005715	164.4288	11.77599	36.60158	.1484449	-.006715
#3	.3027863	164.5005	11.75784	36.55143	.1467967	-.008054

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.708236	.1418804	.6885265	5.773383	F 12.37808	.1669582
Stddev	.191235	.0039950	.0164844	.022168	.03352	.0003477
%RSD	11.19489	2.815742	2.394157	.3839775	.2707761	.2082617
#1	1.890663	.1388436	.7035453	5.785782	12.37903	.1670605
#2	1.509267	.1403916	.6708898	5.747789	12.41111	.1665708
#3	1.724777	.1464060	.6911446	5.786578	12.34410	.1672433

Reviewed By:Jaswal
On:12/14/2024 4:08:47 AM
Inst Id :P5

Sample Name: P5015-22 Acquired: 12/04/2024 20:41:25 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v765) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKQ9 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0034206	2.473057	8.605409	.0221401	.8732790	.0799146
Stddev	.0003833	.008628	.033479	.0028008	.0017198	.0016481
%RSD	11.20604	.3488979	.3890423	12.65025	.1969356	2.062384
#1	.0029845	2.469460	8.615176	.0191409	.8728706	.0780201
#2	.0035735	2.482902	8.568133	.0246875	.8751663	.0810178
#3	.0037040	2.466809	8.632918	.0225918	.8718002	.0807061

Elem	Sr4077
Units	ppm
Avg	.0830345
Stddev	.0003542
%RSD	.4266177
#1	.0826283
#2	.0831964
#3	.0832789

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1468.229	43487.43	8995.207	1247.088	1921.518
Stddev	1.659	992.75	25.768	28.901	4.642
%RSD	.1129943	2.282847	.2864632	2.317449	.2415992
#1	1466.786	43149.99	8979.111	1236.286	1918.321
#2	1467.858	44604.92	8981.583	1279.833	1919.391
#3	1470.041	42707.39	9024.927	1225.144	1926.843

Reviewed By:Jaswal
On:12/14/2024 4:08:47 AM
Inst Id :P5

Sample Name: P4912-01 Acquired: 12/04/2024 20:45:17 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v765) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHJ1 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0319862	-.007288	.9937715	-.008540	.0034586	42.75350	.6810325
Stddev	.0059174	.001343	.0083139	.001292	.0004209	.09112	.0008659
%RSD	18.49975	18.43505	.8366049	15.12880	12.16957	.2131355	.1271371
#1	.0253383	-.006194	.9934124	-.007976	.0031649	42.85869	.6814157
#2	.0339431	-.008787	.9856430	-.010019	.0039408	42.69902	.6816407
#3	.0366773	-.006881	1.002259	-.007626	.0032700	42.70278	.6800412

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0031324	.0033825	179.0898	.0912114	.0481042	.3347770	109.8509
Stddev	.0001800	.0001942	.0746	.0008743	.0004976	.0033239	.1328
%RSD	5.745673	5.741788	.0416718	.9585622	1.034370	.9928678	.1209347
#1	.0032832	.0033839	179.1149	.0903505	.0486211	.3386107	109.9085
#2	.0031809	.0031875	179.1487	.0911851	.0476285	.3330182	109.6989
#3	.0029332	.0035760	179.0059	.0920985	.0480630	.3327019	109.9451

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.739003	46.19778	.1507359	-.006471	1.534841	.1151249	1.835344
Stddev	.010013	.07396	.0001471	.000316	.194830	.0021847	.013181
%RSD	.2112835	.1600927	.0975671	4.883242	12.69384	1.897662	.7181671
#1	4.729839	46.26857	.1508860	-.006463	1.738832	.1146161	1.832451
#2	4.737481	46.20376	.1507298	-.006790	1.515002	.1132395	1.849731
#3	4.749690	46.12101	.1505920	-.006158	1.350689	.1175190	1.823850

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.183978	9.203723	.1190424	.0042368	3.585872	8.299896	.0325894
Stddev	.058889	.011221	.0007452	.0001905	.008179	.026968	.0008415
%RSD	.9522840	.1219188	.6259869	4.496306	.2280886	.3249249	2.582121
#1	6.172794	9.202061	.1198734	.0042655	3.577995	8.330564	.0317945
#2	6.131483	9.193425	.1188204	.0044113	3.585298	8.279882	.0325029
#3	6.247657	9.215682	.1184336	.0040336	3.594322	8.289242	.0334708

Reviewed By:Jaswal
On:12/14/2024 4:08:47 AM
Inst Id :P5

Sample Name: P4912-01 Acquired: 12/04/2024 20:45:17 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v765) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHJ1 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	1.110777	.0468768	.1737251
Stddev	.004816	.0008935	.0002652
%RSD	.4336114	1.906041	.1526759
#1	1.115296	.0471600	.1739883
#2	1.111326	.0458760	.1737293
#3	1.105710	.0475943	.1734578

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1351.435	40780.80	8262.493	1166.755	1912.902
Stddev	1.559	53.59	14.839	1.284	.808
%RSD	.1153432	.1313988	.1795969	.1100915	.0422300
#1	1352.545	40833.66	8245.358	1166.598	1913.272
#2	1352.107	40782.22	8271.033	1165.557	1913.458
#3	1349.653	40726.52	8271.087	1168.111	1911.975

Reviewed By:Jaswal
On:12/14/2024 4:08:47 AM
Inst Id :P5

Sample Name: P4912-02 Acquired: 12/04/2024 20:49:11 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v765) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHJ2 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0231818	-.013055	.8305847	-.014538	.0025038	46.97766	.7145682
Stddev	.0038378	.002522	.0061309	.002978	.0024941	.04813	.0008826
%RSD	16.55520	19.31949	.7381466	20.48321	99.61433	.1024444	.1235170
#1	.0194050	-.015174	.8277427	-.017929	.0048511	46.93016	.7137942
#2	.0230627	-.013727	.8263904	-.013338	.0027751	46.97643	.7143809
#3	.0270778	-.010265	.8376209	-.012348	-.000115	47.02639	.7155294

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0032060	.0034674	208.8376	.0923032	.0515281	.2773907	110.3488
Stddev	.0001545	.0000997	.2981	.0008363	.0006127	.0012353	.2863
%RSD	4.819354	2.876130	.1427600	.9059923	1.189020	.4453170	.2594703
#1	.0033632	.0034344	208.7625	.0913974	.0515508	.2766064	110.0263
#2	.0032006	.0033884	208.5843	.0924664	.0509044	.2767511	110.4470
#3	.0030543	.0035795	209.1662	.0930458	.0521291	.2788147	110.5731

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.042109	47.82929	.1451270	-.006743	1.629974	.1206601	1.475656
Stddev	.015986	.24876	.0011324	.000371	.095822	.0033140	.001504
%RSD	.3170517	.5201003	.7802807	5.508600	5.878744	2.746598	.1019102
#1	5.045146	47.65122	.1446206	-.006720	1.657767	.1186012	1.475052
#2	5.024822	47.72313	.1443361	-.007125	1.523328	.1188962	1.477368
#3	5.056358	48.11352	.1464242	-.006383	1.708827	.1244831	1.474547

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.657444	9.905144	.1157575	.0029779	2.512476	8.445269	.0324671
Stddev	.045343	.027192	.0015847	.0005369	.016574	.043642	.0012898
%RSD	.8014814	.2745220	1.368958	18.02931	.6596498	.5167668	3.972586
#1	5.697517	9.899995	.1155803	.0027153	2.511155	8.463999	.0325932
#2	5.608225	9.880894	.1142689	.0026229	2.496603	8.395388	.0336891
#3	5.666590	9.934542	.1174233	.0035956	2.529671	8.476420	.0311188

Reviewed By:Jaswal
On:12/14/2024 4:08:47 AM
Inst Id :P5

Sample Name: P4912-02 Acquired: 12/04/2024 20:49:11 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v765) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHJ2 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	1.086529	.0568186	.2364908
Stddev	.002596	.0001292	.0003969
%RSD	.2388982	.2273739	.1678229
#1	1.084005	.0569137	.2366292
#2	1.089191	.0566715	.2360432
#3	1.086391	.0568706	.2367999

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1362.601	41137.36	8334.477	1181.698	1899.380
Stddev	.426	93.84	38.467	4.660	5.639
%RSD	.0312628	.2281201	.4615407	.3943889	.2968945
#1	1362.364	41042.14	8309.647	1182.139	1900.830
#2	1362.347	41140.20	8378.787	1176.833	1904.153
#3	1363.093	41229.76	8314.996	1186.123	1893.158

Reviewed By:Jaswal
On:12/14/2024 4:08:47 AM
Inst Id :P5

Sample Name: P4912-03 Acquired: 12/04/2024 20:53:04 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v765) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHJ3 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1034204	-.014199	1.099382	-.006806	.0065476	43.70805	.9186859
Stddev	.0170214	.001710	.009197	.007832	.0014169	.05637	.0026725
%RSD	16.45844	12.04048	.8365791	115.0693	21.64019	.1289649	.2909067
#1	.1142944	-.013142	1.100621	-.015232	.0054577	43.75033	.9217282
#2	.0838044	-.013283	1.089629	-.005437	.0060359	43.64405	.9176123
#3	.1121623	-.016171	1.107898	.000251	.0081493	43.72976	.9167171

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0034401	.0041443	438.0658	.0885199	.0700660	.2316128	129.6828
Stddev	.0000623	.0000484	1.3519	.0019427	.0003950	.0007037	.2762
%RSD	1.812350	1.167963	.3086054	2.194606	.5638080	.3038142	.2129969
#1	.0034862	.0041614	438.4215	.0907041	.0704929	.2310828	129.9678
#2	.0034650	.0041819	439.2042	.0878701	.0697133	.2313445	129.4163
#3	.0033692	.0040897	436.5716	.0869854	.0699918	.2324112	129.6643

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.159766	170.7113	.1596511	-.006819	2.096200	.1071348	.9947683
Stddev	.032200	.2943	.0014538	.000249	.134456	.0054818	.0103869
%RSD	.4497344	.1724000	.9106293	3.655342	6.414275	5.116702	1.044155
#1	7.176103	170.8232	.1587385	-.007093	2.245631	.1132527	1.006721
#2	7.180522	170.3774	.1588873	-.006758	1.984998	.1026695	.989648
#3	7.122672	170.9332	.1613277	-.006606	2.057971	.1054820	.987936

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.854121	8.674618	.1400289	.0016772	25.58241	8.809950	.0366179
Stddev	.062632	.076034	.0014208	.0003540	.23061	.017869	.0026274
%RSD	1.069884	.8765142	1.014671	21.10650	.9014479	.2028302	7.175082
#1	5.900968	8.619628	.1401467	.0013081	25.42092	8.821507	.0385906
#2	5.878415	8.642839	.1413871	.0017096	25.47978	8.818974	.0336354
#3	5.782982	8.761386	.1385527	.0020139	25.84652	8.789368	.0376275

Reviewed By:Jaswal
On:12/14/2024 4:08:47 AM
Inst Id :P5

Sample Name: P4912-03 Acquired: 12/04/2024 20:53:04 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v765) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHJ3 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.9757805	.0495706	.2519598
Stddev	.0022456	.0011728	.0008934
%RSD	.2301340	2.365903	.3545731
#1	.9778479	.0509071	.2524318
#2	.9733914	.0487131	.2509294
#3	.9761022	.0490917	.2525182

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1281.453	38651.94	8110.107	1105.666	1745.328
Stddev	9.138	499.53	22.007	12.386	13.746
%RSD	.7130615	1.292379	.2713505	1.120251	.7875804
#1	1283.712	38101.30	8103.216	1091.364	1749.657
#2	1289.249	38778.51	8092.370	1112.930	1756.389
#3	1271.398	39076.01	8134.734	1112.703	1729.939

Reviewed By:Jaswal
On:12/14/2024 4:08:47 AM
Inst Id :P5

Sample Name: P4912-07 Acquired: 12/04/2024 20:56:56 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v765) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHJ5 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0933423	-.019961	3.490954	-.006292	.0053187	74.33765
Stddev	.0044045	.005069	.002913	.004396	.0021451	.16360
%RSD	4.718685	25.39324	.0834488	69.86519	40.33160	.2200747
#1	.0983194	-.017777	3.488462	-.005419	.0048193	74.31495
#2	.0917600	-.025756	3.490242	-.002398	.0034674	74.51141
#3	.0899476	-.016351	3.494156	-.011058	.0076695	74.18658

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.385019	.0060596	.0092778	149.8122	.1504727	.0811338
Stddev	.001692	.0000924	.0000376	.5060	.0006545	.0008830
%RSD	.0709535	1.525033	.4055601	.3377772	.4349817	1.088323
#1	2.386898	.0060189	.0093129	149.9968	.1508682	.0803338
#2	2.383616	.0059945	.0092825	149.2398	.1497172	.0809864
#3	2.384544	.0061654	.0092381	150.2000	.1508327	.0820812

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4949618	179.7350	14.20847	24.04986	.1597517	-.005692
Stddev	.0028556	.5655	.02860	.12051	.0003052	.000481
%RSD	.5769331	.3146215	.2012788	.5011013	.1910197	8.458268
#1	.4979779	179.3830	14.22118	23.94247	.1600693	-.005139
#2	.4922997	180.3873	14.17572	24.18020	.1594608	-.006015
#3	.4946079	179.4347	14.22851	24.02691	.1597251	-.005922

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.773703	.1728471	2.001654	9.013538	F 14.53076	.2101706
Stddev	.285109	.0008307	.024369	.047720	.03315	.0023805
%RSD	16.07420	.4806144	1.217453	.5294269	.2281139	1.132661
#1	1.867901	.1724666	2.026732	8.964942	14.49960	.2074545
#2	1.453416	.1738000	2.000168	9.060331	14.52709	.2118950
#3	1.999792	.1722748	1.978061	9.015342	14.56559	.2111622

Reviewed By:Jaswal
On:12/14/2024 4:08:47 AM
Inst Id :P5

Sample Name: P4912-07 Acquired: 12/04/2024 20:56:56 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v765) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHJ5 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0047484	2.273469	8.614502	.2896466	1.194414	.0749309
Stddev	.0002972	.009633	.016209	.0009998	.000449	.0010573
%RSD	6.258165	.4237193	.1881591	.3451712	.0376257	1.411013
#1	.0049149	2.266104	8.605302	.2905080	1.194848	.0746547
#2	.0044053	2.284371	8.633218	.2885503	1.193950	.0760989
#3	.0049251	2.269933	8.604988	.2898814	1.194444	.0740391

Elem	Sr4077
Units	ppm
Avg	.3347051
Stddev	.0002105
%RSD	.0629058
#1	.3347316
#2	.3349011
#3	.3344826

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1415.984	42638.84	8639.676	1223.170	1928.043
Stddev	.780	138.81	15.167	10.307	3.441
%RSD	.0550542	.3255438	.1755467	.8426398	.1784967
#1	1416.282	42548.46	8622.287	1212.400	1929.696
#2	1416.571	42798.67	8650.168	1232.942	1930.346
#3	1415.099	42569.39	8646.574	1224.169	1924.087

Reviewed By:Jaswal
On:12/14/2024 4:08:47 AM
Inst Id :P5

Sample Name: P4912-08 Acquired: 12/04/2024 21:00:50 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v765) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHJ6 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0721020	-.026655	2.552035	-.010300	.0037959	76.96294
Stddev	.0038786	.003593	.011722	.003983	.0021269	.08472
%RSD	5.379312	13.47910	.4593258	38.66771	56.03026	.1100848
#1	.0763037	-.030761	2.538792	-.013233	.0013982	77.04070
#2	.0713438	-.024085	2.556231	-.011902	.0054550	76.97548
#3	.0686585	-.025120	2.561082	-.005766	.0045345	76.87265

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.757019	.0063590	.0088921	256.3515	.1350005	.0971121
Stddev	.002452	.0000591	.0000902	.3624	.0007420	.0005780
%RSD	.1395272	.9291696	1.013906	.1413728	.5496073	.5952162
#1	1.759212	.0064024	.0089421	256.0054	.1341975	.0965089
#2	1.757473	.0062917	.0087880	256.3209	.1356607	.0971662
#3	1.754373	.0063828	.0089461	256.7282	.1351433	.0976611

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3907303	209.6597	16.81807	56.11146	.1879376	-.008974
Stddev	.0014171	.1338	.01594	.11242	.0015844	.000124
%RSD	.3626792	.0638326	.0947504	.2003588	.8430188	1.376543
#1	.3921073	209.5063	16.83210	56.02442	.1884069	-.009113
#2	.3892763	209.7526	16.80075	56.23839	.1892342	-.008880
#3	.3908074	209.7202	16.82137	56.07157	.1861716	-.008928

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.102192	.1739780	1.775860	10.72843	F 15.22213	.2254783
Stddev	.044329	.0022041	.008836	.01415	.05559	.0012094
%RSD	2.108715	1.266898	.4975394	.1319152	.3651690	.5363557
#1	2.134143	.1743728	1.775634	10.71518	15.20768	.2241951
#2	2.120850	.1759580	1.784806	10.72676	15.17519	.2265971
#3	2.051584	.1716032	1.767139	10.74334	15.28351	.2256427

Reviewed By:Jaswal
On:12/14/2024 4:08:47 AM
Inst Id :P5

Sample Name: P4912-08 Acquired: 12/04/2024 21:00:50 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v765) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHJ6 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0048811	2.213826	8.553252	.2050613	1.124367	.0800272
Stddev	.0006172	.008698	.020427	.0022731	.003338	.0005175
%RSD	12.64436	.3928983	.2388217	1.108484	.2968596	.6466962
#1	.0051465	2.205281	8.536955	.2065926	1.128200	.0806214
#2	.0053213	2.213526	8.546634	.2061418	1.122104	.0797851
#3	.0041757	2.222669	8.576168	.2024495	1.122796	.0796750

Elem	Sr4077
Units	ppm
Avg	.2637838
Stddev	.0010639
%RSD	.4033105
#1	.2650057
#2	.2632823
#3	.2630634

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1473.182	44515.13	9160.494	1272.292	1830.377
Stddev	1.383	105.89	18.351	3.208	3.836
%RSD	.0939033	.2378813	.2003241	.2521200	.2095789
#1	1474.481	44579.47	9165.450	1275.768	1834.275
#2	1471.727	44392.91	9175.858	1269.446	1830.249
#3	1473.339	44573.01	9140.174	1271.664	1826.607

Reviewed By:Jaswal
On:12/14/2024 4:08:47 AM
Inst Id :P5

Sample Name: P4912-09 Acquired: 12/04/2024 21:04:43 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v765) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHJ7 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0345005	-.012043	1.571690	-.010395	.0046546	59.30812
Stddev	.0028280	.003041	.002700	.005472	.0019319	.09179
%RSD	8.196962	25.25165	.1718053	52.63912	41.50479	.1547693
#1	.0329653	-.014436	1.568677	-.013832	.0068665	59.23592
#2	.0327722	-.013072	1.572502	-.013269	.0037988	59.41142
#3	.0377641	-.008621	1.573891	-.004085	.0032983	59.27703

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.056546	.0051070	.0052758	219.1082	.0902826	.0699711
Stddev	.002447	.0000760	.0001043	.1321	.0016243	.0005197
%RSD	.2316132	1.488732	1.976440	.0602990	1.799147	.7426910
#1	1.056633	.0050298	.0051657	219.2150	.0904301	.0702610
#2	1.058949	.0051095	.0053731	219.1491	.0885896	.0702812
#3	1.054057	.0051818	.0052886	218.9604	.0918281	.0693711

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2321405	158.6880	7.445130	39.19842	.1202035	-.008984
Stddev	.0011388	.3046	.006714	.18412	.0004906	.000731
%RSD	.4905766	.1919177	.0901860	.4697248	.4081486	8.136329
#1	.2309991	158.3472	7.451606	39.02198	.1197584	-.009606
#2	.2332768	158.9337	7.445583	39.18392	.1207295	-.008179
#3	.2321456	158.7830	7.438200	39.38937	.1201225	-.009166

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.338221	.1278331	1.178650	9.635767	F 18.22371	.1699087
Stddev	.105551	.0014842	.021856	.057171	.02345	.0005881
%RSD	4.514173	1.161005	1.854324	.5933245	.1286992	.3461299
#1	2.252920	.1273545	1.185730	9.689643	18.22293	.1693832
#2	2.456263	.1266473	1.154131	9.575790	18.20066	.1705439
#3	2.305482	.1294975	1.196088	9.641867	18.24755	.1697989

Reviewed By:Jaswal
On:12/14/2024 4:08:47 AM
Inst Id :P5

Sample Name: P4912-09 Acquired: 12/04/2024 21:04:43 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v765) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHJ7 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0024529	1.583219	7.774499	.1173084	3.041127	.0896908
Stddev	.0005570	.009712	.056524	.0021035	.008348	.0010247
%RSD	22.70956	.6134352	.7270483	1.793125	.2744883	1.142524
#1	.0028361	1.592573	7.824469	.1156280	3.031827	.0907925
#2	.0018139	1.573185	7.713151	.1166297	3.047972	.0895140
#3	.0027086	1.583900	7.785877	.1196674	3.043581	.0887660

Elem	Sr4077
Units	ppm
Avg	.1655142
Stddev	.0004228
%RSD	.2554492
#1	.1658374
#2	.1656694
#3	.1650357

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1536.773	46730.72	9506.047	1334.490	1864.029
Stddev	6.736	594.60	27.297	16.545	2.581
%RSD	.4383389	1.272386	.2871522	1.239816	.1384739
#1	1539.761	46499.35	9474.725	1325.157	1861.958
#2	1541.498	47406.22	9518.658	1353.593	1866.921
#3	1529.059	46286.59	9524.758	1324.721	1863.208

Reviewed By:Jaswal
On:12/14/2024 4:08:47 AM
Inst Id :P5

Sample Name: P4912-10 Acquired: 12/04/2024 21:08:36 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v765) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHJ8 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0837431	-.032359	1.982089	-.005393	.0088110	72.75142
Stddev	.0094674	.002252	.019550	.003151	.0011069	.24487
%RSD	11.30525	6.960408	.9863085	58.43225	12.56225	.3365783
#1	.0728489	-.033150	1.983616	-.009024	.0075430	72.85439
#2	.0899766	-.034109	2.000830	-.003362	.0095838	72.92799
#3	.0884038	-.029818	1.961821	-.003794	.0093062	72.47189

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.511735	.0066971	.0086617	319.5624	.1605848	.0957678
Stddev	.008130	.0000565	.0000405	.9061	.0006189	.0014562
%RSD	.3236970	.8430299	.4675179	.2835405	.3853759	1.520545
#1	2.517216	.0067514	.0086199	320.5459	.1600601	.0955108
#2	2.515596	.0067013	.0086646	319.3795	.1604270	.0973354
#3	2.502393	.0066387	.0087007	318.7616	.1612672	.0944572

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3973462	203.5698	18.91717	86.71063	.2136580	-.008706
Stddev	.0032302	.8014	.05296	.31031	.0017962	.000444
%RSD	.8129508	.3936798	.2799818	.3578660	.8406755	5.102791
#1	.3944065	203.8249	18.97830	86.82688	.2153800	-.008342
#2	.4008043	204.2127	18.88840	86.94603	.2137980	-.008575
#3	.3968278	202.6719	18.88482	86.35898	.2117959	-.009201

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.080719	.1806391	4.969190	14.95850	F 18.59754	.2457561
Stddev	.193984	.0003761	.006381	.04035	.19378	.0026997
%RSD	9.322929	.2081901	.1284127	.2697250	1.041940	1.098525
#1	1.899372	.1803245	4.971519	14.99078	18.65346	.2441908
#2	2.057531	.1810556	4.961972	14.97144	18.75721	.2488734
#3	2.285255	.1805371	4.974079	14.91327	18.38196	.2442041

Reviewed By:Jaswal
On:12/14/2024 4:08:47 AM
Inst Id :P5

Sample Name: P4912-10 Acquired: 12/04/2024 21:08:36 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v765) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHJ8 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0088465	6.058153	8.903449	.1019001	.9975599	.0804974
Stddev	.0008293	.061961	.049674	.0014443	.0029336	.0005056
%RSD	9.374107	1.022771	.5579226	1.417358	.2940721	.6281547
#1	.0079890	6.068077	8.928471	.1009469	.9983103	.0803735
#2	.0096444	6.114553	8.935637	.1011917	1.000045	.0800653
#3	.0089061	5.991829	8.846240	.1035619	.994324	.0810535

Elem	Sr4077
Units	ppm
Avg	.1827370
Stddev	.0008812
%RSD	.4822531
#1	.1837528
#2	.1821769
#3	.1822813

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1396.724	41962.09	8690.648	1201.923	1806.385
Stddev	9.079	8.13	33.191	1.795	15.471
%RSD	.6500147	.0193639	.3819159	.1493627	.8564585
#1	1393.583	41965.02	8689.950	1202.172	1801.369
#2	1389.633	41952.91	8657.812	1200.017	1794.045
#3	1406.957	41968.34	8724.183	1203.581	1823.742

Reviewed By:Jaswal
On:12/14/2024 4:08:47 AM
Inst Id :P5

Sample Name: P4912-11 Acquired: 12/04/2024 21:12:28 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v765) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHJ9 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0731260	-.019711	1.701882	-.008547	.0065651	67.09272
Stddev	.0052287	.001393	.003456	.000732	.0040978	.25704
%RSD	7.150311	7.066383	.2030778	8.568497	62.41811	.3831157
#1	.0742775	-.018491	1.703770	-.008264	.0075453	67.20603
#2	.0776830	-.021228	1.697893	-.009379	.0100838	67.27365
#3	.0674175	-.019413	1.703983	-.007998	.0020660	66.79850

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.654915	.0062319	.0060254	292.0708	.1351324	.0774365
Stddev	.003606	.0001219	.0001370	1.0451	.0003399	.0001425
%RSD	.2179257	1.955935	2.273046	.3578224	.2515482	.1839935
#1	1.652478	.0063519	.0058700	291.2106	.1347821	.0774772
#2	1.659058	.0061082	.0060777	293.2339	.1351543	.0772781
#3	1.653210	.0062356	.0061286	291.7679	.1354609	.0775542

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3307897	176.2858	11.85676	79.41999	.1793680	-.008360
Stddev	.0014870	.9661	.04924	.40753	.0006243	.000519
%RSD	.4495188	.5480057	.4153278	.5131283	.3480695	6.210391
#1	.3323335	176.8977	11.82796	79.79415	.1791947	-.008676
#2	.3293670	176.7875	11.91363	79.48005	.1788487	-.008643
#3	.3306688	175.1721	11.82870	78.98576	.1800607	-.007761

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.943466	.1635621	3.852738	11.54658	F 12.68336	.2108998
Stddev	.153538	.0036208	.017838	.04814	.03398	.0012105
%RSD	7.900234	2.213693	.4629994	.4169567	.2679051	.5739580
#1	1.767489	.1647149	3.851413	11.53269	12.64520	.2122954
#2	2.050115	.1664661	3.871202	11.60014	12.71034	.2102678
#3	2.012795	.1595053	3.835600	11.50690	12.69455	.2101361

Reviewed By:Jaswal
On:12/14/2024 4:08:47 AM
Inst Id :P5

Sample Name: P4912-11 Acquired: 12/04/2024 21:12:28 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v765) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHJ9 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0061696	4.851833	9.267043	.0846833	1.004365	.0700224
Stddev	.0003762	.009825	.042583	.0039449	.003410	.0008728
%RSD	6.098060	.2024949	.4595080	4.658404	.3394766	1.246492
#1	.0058983	4.843404	9.271624	.0882263	1.006864	.0697490
#2	.0060114	4.849471	9.307150	.0804324	1.005749	.0693189
#3	.0065991	4.862623	9.222355	.0853913	1.000481	.0709991

Elem	Sr4077
Units	ppm
Avg	.1364456
Stddev	.0006360
%RSD	.4661004
#1	.1358326
#2	.1371023
#3	.1364021

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1371.115	41434.20	8503.606	1186.630	1827.502
Stddev	3.142	167.43	42.829	8.082	3.715
%RSD	.2291477	.4040875	.5036586	.6810993	.2032851
#1	1371.062	41271.97	8473.390	1178.326	1828.528
#2	1368.000	41424.23	8484.809	1187.091	1823.381
#3	1374.284	41606.38	8552.619	1194.471	1830.595

Reviewed By:Jaswal
On:12/14/2024 4:08:47 AM
Inst Id :P5

Sample Name: P4912-12 Acquired: 12/04/2024 21:16:20 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v765) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHK0 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1009693	-.026821	2.446100	-.008294	.0045213	78.43878
Stddev	.0049685	.001468	.011139	.004258	.0009845	.14409
%RSD	4.920786	5.472897	.4553597	51.33097	21.77466	.1836982
#1	.1032296	-.028450	2.449890	-.005716	.0042010	78.60506
#2	.0952725	-.025602	2.433562	-.013209	.0037368	78.36074
#3	.1044057	-.026410	2.454850	-.005959	.0056260	78.35054

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.578975	.0078001	.0078912	123.2277	.1689922	.0959264
Stddev	.007125	.0001810	.0001819	.1489	.0033547	.0009300
%RSD	.2762795	2.320577	2.304678	.1208219	1.985145	.9694838
#1	2.586532	.0079889	.0080907	123.0839	.1725256	.0958940
#2	2.578013	.0077833	.0077347	123.2178	.1686005	.0950131
#3	2.572379	.0076281	.0078483	123.3812	.1658505	.0968722

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4210419	225.3573	16.30324	35.84330	.2297917	-.010138
Stddev	.0007403	.5059	.01304	.02771	.0012291	.000419
%RSD	.1758285	.2244787	.0799711	.0773072	.5348767	4.134378
#1	.4217497	225.6877	16.29115	35.82495	.2295751	-.010534
#2	.4211032	224.7749	16.30151	35.82977	.2286854	-.010182
#3	.4202729	225.6091	16.31705	35.87517	.2311148	-.009699

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.344489	.2149188	3.215372	11.35730	F 14.79478	.2512777
Stddev	.054427	.0013956	.021634	.01095	.06742	.0002398
%RSD	2.321472	.6493528	.6728267	.0964162	.4557309	.0954498
#1	2.283218	.2154084	3.233682	11.36035	14.76570	.2513817
#2	2.363012	.2160036	3.191500	11.36640	14.74678	.2514479
#3	2.387236	.2133444	3.220933	11.34514	14.87187	.2510034

Reviewed By:Jaswal
On:12/14/2024 4:08:47 AM
Inst Id :P5

Sample Name: P4912-12 Acquired: 12/04/2024 21:16:20 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v765) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHK0 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0084021	3.843584	8.301401	.1331220	1.361027	.0871368
Stddev	.0004772	.010756	.035669	.0006810	.004152	.0011536
%RSD	5.679360	.2798364	.4296772	.5115236	.3050838	1.323848
#1	.0079034	3.839907	8.337868	.1333292	1.362389	.0884596
#2	.0088543	3.835148	8.299750	.1323616	1.356365	.0866108
#3	.0084486	3.855696	8.266587	.1336754	1.364327	.0863399

Elem	Sr4077
Units	ppm
Avg	.1789840
Stddev	.0006140
%RSD	.3430363
#1	.1795906
#2	.1789985
#3	.1783629

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1457.461	43557.81	8967.243	1245.752	1917.343
Stddev	2.096	602.54	21.452	16.402	5.481
%RSD	.1438376	1.383315	.2392236	1.316656	.2858523
#1	1455.997	42880.40	8943.423	1227.200	1914.518
#2	1459.862	43759.03	8973.268	1258.328	1923.660
#3	1456.524	44033.99	8985.038	1251.729	1913.852

Reviewed By:Jaswal
On:12/14/2024 4:08:47 AM
Inst Id :P5

Sample Name: P4912-13 Acquired: 12/04/2024 21:20:13 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v765) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHK1 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1324192	-.037867	2.268517	-.002223	.0054968	72.11531
Stddev	.0075481	.002450	.000636	.001768	.0013991	.10929
%RSD	5.700147	6.470073	.0280375	79.50807	25.45349	.1515466
#1	.1352675	-.035512	2.268770	-.004151	.0049188	71.98930
#2	.1238614	-.037686	2.268988	-.000678	.0070923	72.17236
#3	.1381286	-.040402	2.267793	-.001840	.0044793	72.18427

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.034040	.0076501	.0067691	105.4236	.1265605	.1072114
Stddev	.002427	.0000864	.0001070	.2685	.0000273	.0003297
%RSD	.0799992	1.129745	1.580551	.2547001	.0215552	.3074728
#1	3.031509	.0075506	.0066782	105.1162	.1265753	.1075751
#2	3.036347	.0076928	.0068870	105.6122	.1265291	.1069323
#3	3.034264	.0077069	.0067422	105.5424	.1265773	.1071267

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4464275	222.1079	23.50448	28.20689	.2131371	-.007975
Stddev	.0027701	.6725	.05478	.19326	.0011769	.000372
%RSD	.6205109	.3027613	.2330797	.6851422	.5521645	4.667624
#1	.4449248	221.3382	23.44174	27.98375	.2135476	-.007592
#2	.4447334	222.4041	23.54288	28.32101	.2118099	-.008336
#3	.4496243	222.5815	23.52882	28.31590	.2140537	-.007996

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.240169	.1927722	2.060122	10.72728	F 16.24681	.2447899
Stddev	.094917	.0021123	.008064	.03494	.05175	.0022349
%RSD	4.237063	1.095731	.3914476	.3256682	.3184951	.9130088
#1	2.327179	.1909846	2.051098	10.72488	16.23396	.2436181
#2	2.138947	.1922290	2.062644	10.69361	16.20270	.2473671
#3	2.254382	.1951030	2.066624	10.76335	16.30377	.2433846

Reviewed By:Jaswal
On:12/14/2024 4:08:47 AM
Inst Id :P5

Sample Name: P4912-13 Acquired: 12/04/2024 21:20:13 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v765) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHK1 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0109130	3.487390	8.375300	.1027797	.9817509	.0657621
Stddev	.0008136	.005512	.011492	.0038265	.0023505	.0017618
%RSD	7.455317	.1580665	.1372143	3.723029	.2394236	2.679082
#1	.0109187	3.493747	8.363858	.1032027	.9809103	.0644141
#2	.0117237	3.483937	8.386842	.0987592	.9844062	.0677556
#3	.0100966	3.484485	8.375201	.1063771	.9799363	.0651166

Elem	Sr4077
Units	ppm
Avg	.0632052
Stddev	.0003961
%RSD	.6267409
#1	.0633711
#2	.0634914
#3	.0627530

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1499.440	45092.60	9114.549	1285.573	1927.571
Stddev	.662	54.30	23.783	4.207	1.857
%RSD	.0441808	.1204118	.2609310	.3272212	.0963406
#1	1498.902	45129.72	9141.942	1290.086	1925.580
#2	1499.237	45030.28	9099.170	1284.872	1927.876
#3	1500.180	45117.79	9102.536	1281.760	1929.256

Reviewed By:Jaswal
On:12/14/2024 4:08:47 AM
Inst Id :P5

Sample Name: P4915-08 Acquired: 12/04/2024 21:24:07 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v765) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHM8 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0453308	-.013333	1.121595	-.012871	.0100785	56.76959	.7164712
Stddev	.0047932	.003566	.003309	.001690	.0002771	.06278	.0016702
%RSD	10.57393	26.74643	.2949898	13.13116	2.749968	.1105787	.2331114
#1	.0503005	-.014756	1.118967	-.011070	.0100873	56.83010	.7147164
#2	.0449561	-.015967	1.120507	-.013120	.0097970	56.70477	.7166559
#3	.0407360	-.009275	1.125310	-.014423	.0103511	56.77390	.7180414

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0045158	.0042688	134.8412	.1152652	.0675685	.3222099	181.1266
Stddev	.0001466	.0002169	.1716	.0006942	.0001959	.0013818	.3310
%RSD	3.247484	5.079977	.1272245	.6022554	.2899300	.4288517	.1827583
#1	.0043984	.0044443	134.7769	.1144777	.0674883	.3219637	181.5085
#2	.0044688	.0043356	135.0356	.1157886	.0674254	.3236982	180.9232
#3	.0046802	.0040264	134.7111	.1155294	.0677918	.3209677	180.9480

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.560464	34.51192	.1498937	-.009676	1.495113	.1535988	1.014469
Stddev	.021485	.00765	.0016070	.000208	.080510	.0002959	.007971
%RSD	.2841807	.0221588	1.072119	2.153550	5.384882	.1926730	.7857120
#1	7.537662	34.50312	.1480835	-.009858	1.557645	.1538408	1.014060
#2	7.580332	34.51699	.1504452	-.009722	1.404272	.1532689	1.022637
#3	7.563397	34.51564	.1511523	-.009449	1.523421	.1536867	1.006711

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.695304	7.467359	.1769380	.0029686	1.560085	7.657956	.0642375
Stddev	.040071	.030217	.0021821	.0003169	.009112	.035337	.0004701
%RSD	.7035878	.4046543	1.233267	10.67395	.5840960	.4614357	.7317606
#1	5.702174	7.467041	.1794275	.0026736	1.570011	7.658586	.0647759
#2	5.652242	7.437302	.1760294	.0029288	1.552099	7.622309	.0640279
#3	5.731496	7.497733	.1753569	.0033035	1.558146	7.692973	.0639087

Reviewed By:Jaswal
On:12/14/2024 4:08:47 AM
Inst Id :P5

Sample Name: P4915-08 Acquired: 12/04/2024 21:24:07 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v765) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHM8 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	1.100754	.0552251	.0349339
Stddev	.003734	.0001922	.0002877
%RSD	.3391847	.3479388	.8236149
#1	1.105051	.0552489	.0346236
#2	1.098296	.0550222	.0351920
#3	1.098917	.0554043	.0349860

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1394.475	42034.58	8474.418	1203.769	1951.411
Stddev	1.672	119.57	16.154	6.865	6.246
%RSD	.1198731	.2844625	.1906235	.5703304	.3200678
#1	1394.649	41964.01	8459.320	1198.312	1954.519
#2	1396.052	41967.09	8491.454	1201.518	1955.493
#3	1392.723	42172.64	8472.479	1211.478	1944.221

Reviewed By:Jaswal
On:12/14/2024 4:08:47 AM
Inst Id :P5

Sample Name: P4915-09 Acquired: 12/04/2024 21:28:00 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v765) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHM8D Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0362475	-.012942	1.121700	-.009172	.0097696	56.80131	.7206243
Stddev	.0004363	.000744	.004603	.008831	.0005930	.09880	.0010081
%RSD	1.203581	5.747468	.4103156	96.28255	6.069894	.1739401	.1398962
#1	.0360062	-.013737	1.120029	-.017408	.0104525	56.69457	.7201737
#2	.0367512	-.012263	1.118166	-.010263	.0093843	56.88955	.7217792
#3	.0359853	-.012826	1.126904	.000154	.0094722	56.81982	.7199202

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0046500	.0042227	135.0973	.1146411	.0669413	.3234286	180.7473
Stddev	.0001634	.0001325	.1649	.0004292	.0003013	.0021020	.3019
%RSD	3.514251	3.136705	.1220719	.3743559	.4501494	.6498982	.1670107
#1	.0045907	.0043454	135.2878	.1141456	.0666219	.3225385	180.5543
#2	.0048348	.0042406	135.0018	.1148939	.0669815	.3258291	181.0952
#3	.0045245	.0040823	135.0024	.1148839	.0672205	.3219181	180.5925

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.573292	34.43968	.1503578	-.009872	1.630786	.1529642	1.020528
Stddev	.018750	.04250	.0012775	.000124	.083960	.0028371	.007696
%RSD	.2475794	.1234049	.8496191	1.256332	5.148443	1.854761	.7541392
#1	7.591083	34.43938	.1509710	-.009728	1.567777	.1498550	1.011717
#2	7.553711	34.48233	.1488894	-.009944	1.726100	.1536252	1.023928
#3	7.575081	34.39733	.1512131	-.009943	1.598480	.1554125	1.025938

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.734997	7.482179	.1763285	.0027521	1.565085	7.624939	.0634708
Stddev	.041576	.013188	.0007369	.0004262	.010925	.018123	.0008186
%RSD	.7249486	.1762524	.4179035	15.48783	.6980193	.2376771	1.289813
#1	5.768876	7.467637	.1761160	.0032015	1.571394	7.636534	.0625406
#2	5.747515	7.485538	.1771483	.0023536	1.552471	7.634227	.0640816
#3	5.688601	7.493362	.1757212	.0027011	1.571392	7.604055	.0637902

Reviewed By:Jaswal
On:12/14/2024 4:08:47 AM
Inst Id :P5

Sample Name: P4915-09 Acquired: 12/04/2024 21:28:00 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v765) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHM8D Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	1.099036	.0560157	.0354122
Stddev	.000877	.0010271	.0006903
%RSD	.0797779	1.833631	1.949475
#1	1.098100	.0548355	.0354552
#2	1.099170	.0565039	.0347013
#3	1.099838	.0567077	.0360800

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1391.150	41773.19	8458.166	1194.515	1944.936
Stddev	3.255	68.54	20.131	4.396	.595
%RSD	.2339741	.1640693	.2380095	.3679958	.0305901
#1	1389.697	41715.18	8436.750	1193.933	1944.257
#2	1388.874	41848.81	8461.046	1190.440	1945.367
#3	1394.878	41755.57	8476.702	1199.173	1945.184

Reviewed By:Jaswal
On:12/14/2024 4:08:47 AM
Inst Id :P5

Sample Name: P4915-08LX5 Acquired: 12/04/2024 21:31:54 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v765) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHM8L Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0105178	-.000456	.2337343	.0027974	-.001039	12.81320	.1627090
Stddev	.0047033	.003186	.0036121	.0066057	.001923	.02447	.0009506
%RSD	44.71729	698.5111	1.545380	236.1381	185.0677	.1909813	.5842374
#1	.0059348	-.001173	.2306432	.0101879	-.001405	12.83628	.1637290
#2	.0153327	.003027	.2328548	-.002532	.001041	12.81577	.1625500
#3	.0102858	-.003223	.2377050	.000736	-.002753	12.78754	.1618478

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0011007	.0007956	30.80389	.0264616	.0129787	.0785602	42.00898
Stddev	.0000848	.0001716	.15581	.0005274	.0002011	.0019861	.03347
%RSD	7.699806	21.57156	.5058008	1.993059	1.549288	2.528110	.0796811
#1	.0010515	.0009918	30.98370	.0268115	.0127759	.0796468	41.98799
#2	.0010520	.0007220	30.70880	.0267183	.0129823	.0762679	41.99137
#3	.0011985	.0006731	30.71916	.0258550	.0131780	.0797660	42.04758

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.748477	7.864048	.0308104	-.002516	.1976406	.0370726	.2254977
Stddev	.006623	.099125	.0001155	.000694	.0741931	.0023815	.0071236
%RSD	.3787646	1.260488	.3748196	27.58196	37.53941	6.423971	3.159073
#1	1.755543	7.754026	.0307389	-.002488	.1438116	.0347300	.2328608
#2	1.747478	7.891724	.0307486	-.001837	.1668365	.0394913	.2249918
#3	1.742411	7.946394	.0309436	-.003224	.2822738	.0369966	.2186405

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.027801	1.499210	.0296414	-.000201	.3076101	1.796433	.0039084
Stddev	.051867	.006444	.0004813	.000289	.0021637	.024546	.0014740
%RSD	5.046429	.4298009	1.623750	143.4942	.7033853	1.366367	37.71404
#1	1.044462	1.497542	.0299243	-.000351	.3085181	1.812532	.0041876
#2	.969651	1.493765	.0290856	.000132	.3051404	1.768182	.0052230
#3	1.069290	1.506324	.0299141	-.000385	.3091718	1.808586	.0023148

Reviewed By:Jaswal
On:12/14/2024 4:08:47 AM
Inst Id :P5

Sample Name: P4915-08LX5 Acquired: 12/04/2024 21:31:54 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v765) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHM8L Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.2530735	-.002921	.0072857
Stddev	.0011376	.000229	.0000176
%RSD	.4495173	7.830910	.2412059
#1	.2533542	-.002816	.0073029
#2	.2518218	-.002765	.0072677
#3	.2540444	-.003184	.0072864

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1310.615	38857.78	7677.164	1122.536	2114.764
Stddev	.840	213.56	46.938	7.289	3.190
%RSD	.0641212	.5495873	.6113913	.6493400	.1508304
#1	1311.306	39081.11	7663.469	1130.701	2118.441
#2	1310.859	38655.56	7729.426	1116.684	2112.745
#3	1309.679	38836.66	7638.597	1120.222	2113.105

Reviewed By:Jaswal
On:12/14/2024 4:08:47 AM
Inst Id :P5

Sample Name: P4915-10 Acquired: 12/04/2024 21:35:51 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v765) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHM8S Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1102432	.0882072	1.152070	.1386518	.1718528	59.76954	4.328602
Stddev	.0065603	.0006334	.002007	.0030740	.0010351	.11816	.004701
%RSD	5.950786	.7180432	.1742498	2.217063	.6023407	.1976919	.1085920
#1	.1027007	.0884940	1.152888	.1384655	.1722245	59.83280	4.331946
#2	.1134050	.0886464	1.153540	.1418147	.1726508	59.84261	4.330631
#3	.1146238	.0874812	1.149783	.1356752	.1706832	59.63322	4.323227

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0925511	.0960177	133.7688	.4976286	1.047347	.7467074	181.3915
Stddev	.0001908	.0001259	.0890	.0028963	.002124	.0032688	.7308
%RSD	.2061471	.1310900	.0665337	.5820226	.2028008	.4377682	.4028938
#1	.0927657	.0961450	133.8694	.5001678	1.049048	.7450063	181.5934
#2	.0924865	.0960147	133.7368	.4944741	1.044967	.7504760	182.0002
#3	.0924009	.0958933	133.7003	.4982440	1.048027	.7446399	180.5810

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	8.403281	34.15647	1.120123	.0753769	1.516008	1.042149	1.800513
Stddev	.011646	.12695	.002930	.0003802	.082134	.003969	.028023
%RSD	.1385854	.3716714	.2616177	.5043953	5.417805	.3808139	1.556392
#1	8.389999	34.12832	1.123185	.0749952	1.592374	1.043402	1.831036
#2	8.408104	34.29513	1.117345	.0753799	1.526531	1.045340	1.794554
#3	8.411741	34.04595	1.119839	.0757556	1.429119	1.037705	1.775948

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.728534	7.409148	.1764826	.0025483	1.568079	7.624589	.0647843
Stddev	.073720	.008576	.0013830	.0002561	.010229	.012856	.0025554
%RSD	1.286893	.1157479	.7836662	10.05113	.6523155	.1686107	3.944547
#1	5.777443	7.416373	.1765756	.0027992	1.572773	7.611872	.0649825
#2	5.764417	7.411400	.1778168	.0022872	1.556345	7.637580	.0621355
#3	5.643742	7.399671	.1750555	.0025585	1.575118	7.624315	.0672349

Reviewed By:Jaswal
On:12/14/2024 4:08:47 AM
Inst Id :P5

Sample Name: P4915-10 Acquired: 12/04/2024 21:35:51 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v765) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHM8S Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	1.091630	.0557706	.0330040
Stddev	.003318	.0007363	.0004596
%RSD	.3039726	1.320319	1.392474
#1	1.093074	.0561627	.0327295
#2	1.093982	.0562280	.0327479
#3	1.087835	.0549212	.0335345

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1383.302	41840.00	8409.036	1197.832	1939.569
Stddev	.431	183.46	16.799	4.563	4.494
%RSD	.0311349	.4384782	.1997731	.3809664	.2317166
#1	1383.325	41630.25	8410.474	1192.563	1934.775
#2	1383.720	41970.59	8391.564	1200.484	1943.688
#3	1382.860	41919.16	8425.070	1200.449	1940.245

Reviewed By:Jaswal
On:12/14/2024 4:08:47 AM
Inst Id :P5

Sample Name: PB165169BL Acquired: 12/04/2024 21:39:40 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v765) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: PBS169 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0010334	.0013195	.0024942	-.000857	-.000965	.0181579
Stddev	.0063703	.0033707	.0010110	.003505	.000883	.0072861
%RSD	616.4104	255.4599	40.53290	408.8078	91.47419	40.12641
#1	-.005217	-.001707	.0014217	-.002329	-.000496	.0120674
#2	.000801	.004952	.0026311	.003144	-.001983	.0161765
#3	.007517	.000713	.0034297	-.003388	-.000416	.0262298

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002003	.0000265	-.000023	.0085349	-.000418	.0002354
Stddev	.0000796	.0000880	.000084	.0095761	.000615	.0001568
%RSD	39.75023	331.7986	370.0453	112.1991	147.0411	66.63809
#1	.0001120	.0000492	-.000027	.0070574	-.000317	.0000548
#2	.0002220	-.000071	.000063	-.000217	-.001077	.0003137
#3	.0002667	.000101	-.000104	.018764	.000140	.0003376

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0101482	.0178752	.0004952	.0212521	-.000587	-.000113
Stddev	.0024828	.0039895	.0002270	.0094427	.000143	.000221
%RSD	24.46485	22.31862	45.83773	44.43194	24.36704	195.9651
#1	.0081150	.0213416	.0002900	.0212443	-.000438	-.000365
#2	.0129151	.0135144	.0007391	.0118133	-.000599	.000042
#3	.0094146	.0187696	.0004566	.0306988	-.000723	-.000014

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.120195	.0017029	-.006647	-.253707	.0028375	-.013824
Stddev	.179475	.0016724	.003078	.033616	.0028765	.001007
%RSD	149.3201	98.21304	46.30056	13.24980	101.3722	7.283005
#1	-.293496	-.000227	-.009231	-.239556	.0043381	-.013226
#2	-.131963	.002599	-.003242	-.229481	-.000479	-.013259
#3	.064875	.002737	-.007469	-.292085	.004653	-.014986

Reviewed By:Jaswal
On:12/14/2024 4:08:47 AM
Inst Id :P5

Sample Name: PB165169BL Acquired: 12/04/2024 21:39:40 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v765) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: PBS169 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000260	.0039382	.0012096	F -.011793	.0009609	F -.020851
Stddev	.000257	.0046936	.0004297	.000870	.0011050	.000226
%RSD	98.60756	119.1825	35.52351	7.372753	114.9884	1.083383
#1	-.000378	.0092924	.0015750	-.011786	.0003513	-.020886
#2	-.000437	.0005338	.0007362	-.012666	.0002951	-.021058
#3	.000034	.0019883	.0013177	-.010927	.0022364	-.020610

Elem	Sr4077
Units	ppm
Avg	-.000050
Stddev	.000076
%RSD	151.4024
#1	-.000108
#2	-.000079
#3	.000036

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1277.143	38079.82	7308.738	1105.875	2227.509
Stddev	4.014	167.11	20.758	5.952	3.076
%RSD	.3143333	.4388489	.2840103	.5382598	.1380856
#1	1273.725	37936.92	7322.050	1099.513	2227.703
#2	1281.564	38038.99	7284.820	1106.805	2230.483
#3	1276.139	38263.57	7319.343	1111.308	2224.340

Reviewed By:Jaswal
On:12/14/2024 4:08:47 AM
Inst Id :P5

Sample Name: CCV090 Acquired: 12/04/2024 21:43:41 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v765) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV090 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.840425	4.619786	24.73247	4.792005	4.810649	404.4669	10.12376
Stddev	.033803	.012448	.11116	.021656	.029511	.7200	.01157
%RSD	.6983436	.2694475	.4494529	.4519233	.6134507	.1780041	.1142610
#1	4.832130	4.607009	24.67997	4.795359	4.815010	405.2037	10.13707
#2	4.811541	4.620471	24.65728	4.768867	4.779201	403.7650	10.11614
#3	4.877602	4.631877	24.86016	4.811788	4.837738	404.4321	10.11808

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5047099	2.482084	395.0771	15.56548	2.499279	15.10086	410.2938
Stddev	.0010364	.011635	.8298	.00396	.009664	.01530	.5308
%RSD	.2053545	.4687598	.2100326	.0254676	.3866574	.1013236	.1293751
#1	.5058531	2.471149	396.0350	15.56166	2.492493	15.10343	409.8170
#2	.5044447	2.480792	394.6204	15.56957	2.495001	15.08443	410.8658
#3	.5038318	2.494311	394.5761	15.56522	2.510343	15.11471	410.1985

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	14.76782	384.9126	2.461426	1.273823	402.1834	2.495595	14.57164
Stddev	.04285	.3718	.010001	.001255	.4297	.004166	.17952
%RSD	.2901262	.0965995	.4062932	.0985208	.1068432	.1669331	1.231983
#1	14.79526	384.9007	2.452179	1.273328	402.1156	2.492402	14.38860
#2	14.71845	385.2902	2.460061	1.275250	402.6429	2.500308	14.74743
#3	14.78975	384.5469	2.472040	1.272892	401.7916	2.494076	14.57890

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	152.7084	5.097478	5.127907	4.832105	5.077187	4.896348	4.978256
Stddev	.0261	.020477	.010855	.022265	.017746	.019210	.022171
%RSD	.0171107	.4017089	.2116808	.4607758	.3495200	.3923432	.4453576
#1	152.7059	5.107200	5.140359	4.829567	5.063047	4.918373	4.953615
#2	152.6836	5.073951	5.122924	4.811217	5.071414	4.883052	4.984560
#3	152.7357	5.111283	5.120438	4.855530	5.097101	4.887620	4.996592

Reviewed By:Jaswal
On:12/14/2024 4:08:47 AM
Inst Id :P5

Sample Name: CCV090 Acquired: 12/04/2024 21:43:41 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v765) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV090 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	4.976801	5.104229	4.808849
Stddev	.007339	.005037	.017718
%RSD	.1474687	.0986730	.3684516
#1	4.981325	5.100066	4.825271
#2	4.980745	5.109827	4.811206
#3	4.968333	5.102794	4.790070

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1056.922	32712.80	7018.695	921.1917	1581.694
Stddev	5.198	32.14	13.172	7.7958	5.206
%RSD	.4917854	.0982546	.1876698	.8462704	.3291098
#1	1057.943	32719.11	7003.641	929.7643	1584.546
#2	1061.534	32677.97	7028.101	914.5268	1584.850
#3	1051.290	32741.32	7024.344	919.2841	1575.686

Reviewed By:Jaswal
On:12/14/2024 4:08:47 AM
Inst Id :P5

Sample Name: CCB090 Acquired: 12/04/2024 21:47:41 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v765) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB090 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.005144	.0027853	.0012182	-.001776	-.001405	.0282181
Stddev	.001480	.0035016	.0017586	.002094	.001261	.0031907
%RSD	28.78031	125.7171	144.3601	117.8930	89.79530	11.30714
#1	-.003865	-.001085	-.000798	.000434	-.000098	.0316583
#2	-.004801	.005733	.002014	-.002031	-.001501	.0276398
#3	-.006766	.003708	.002438	-.003730	-.002615	.0253561

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0007019	-.000034	.0001910	-.020420	.0002567	.0001426
Stddev	.0000290	.000052	.0000630	.005359	.0001841	.0000661
%RSD	4.126652	151.1145	32.98642	26.24340	71.71420	46.34851
#1	.0007329	-.000024	.0002098	-.017957	.0001470	.0000770
#2	.0006973	.000011	.0002424	-.016735	.0001539	.0002091
#3	.0006756	-.000091	.0001207	-.026568	.0004693	.0001417

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0027489	.0145340	.0000569	.0304167	-.000280	-.000431
Stddev	.0001749	.0080278	.0000097	.0231000	.000186	.000135
%RSD	6.360941	55.23468	17.00041	75.94512	66.50786	31.38937
#1	.0028325	.0116469	.0000668	.0105965	-.000183	-.000513
#2	.0025480	.0083491	.0000475	.0557858	-.000163	-.000275
#3	.0028663	.0236061	.0000564	.0248678	-.000495	-.000505

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1990715	.0005142	-.000467	-.110394	.0038243	-.004922
Stddev	.2763933	.0015003	.004177	.054490	.0019883	.001195
%RSD	138.8413	291.7998	894.5027	49.35936	51.99004	24.27505
#1	-.055209	.0006175	-.002509	-.052708	.0039766	-.003955
#2	.493243	.0019602	.004338	-.117479	.0017643	-.004553
#3	.159180	-.001035	-.003229	-.160994	.0057321	-.006258

Reviewed By:Jaswal
On:12/14/2024 4:08:47 AM
Inst Id :P5

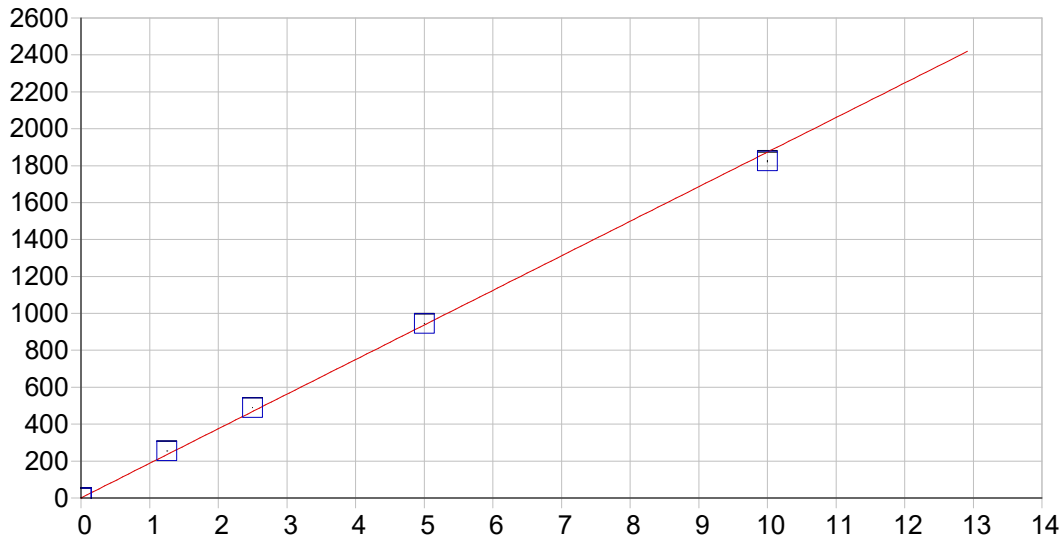
Sample Name: CCB090 Acquired: 12/04/2024 21:47:41 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v765) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB090 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000164	.0012387	-.000446	F -.010652	.0014370	-.012994
Stddev	.000180	.0050419	.000607	.000994	.0011781	.000942
%RSD	109.9532	407.0373	136.2056	9.329926	81.98243	7.247436
#1	-.000129	.0067455	-.001011	-.009756	.0013673	-.013185
#2	-.000003	.0001213	-.000521	-.010480	.0026484	-.011971
#3	-.000358	-.003151	.000196	-.011721	.0002953	-.013825

Elem	Sr4077
Units	ppm
Avg	.0001380
Stddev	.0000649
%RSD	47.03827
#1	.0002124
#2	.0000935
#3	.0001080

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1272.895	37802.06	7321.546	1093.803	2220.565
Stddev	1.583	71.86	27.588	.367	4.231
%RSD	.1243664	.1900892	.3768086	.0335077	.1905578
#1	1272.290	37729.02	7347.327	1093.770	2220.414
#2	1274.691	37804.49	7324.863	1094.185	2224.870
#3	1271.704	37872.67	7292.450	1093.455	2216.411

Reviewed By:kareem
On:12/13/2024 7:24:03 PM
Inst Id :P5

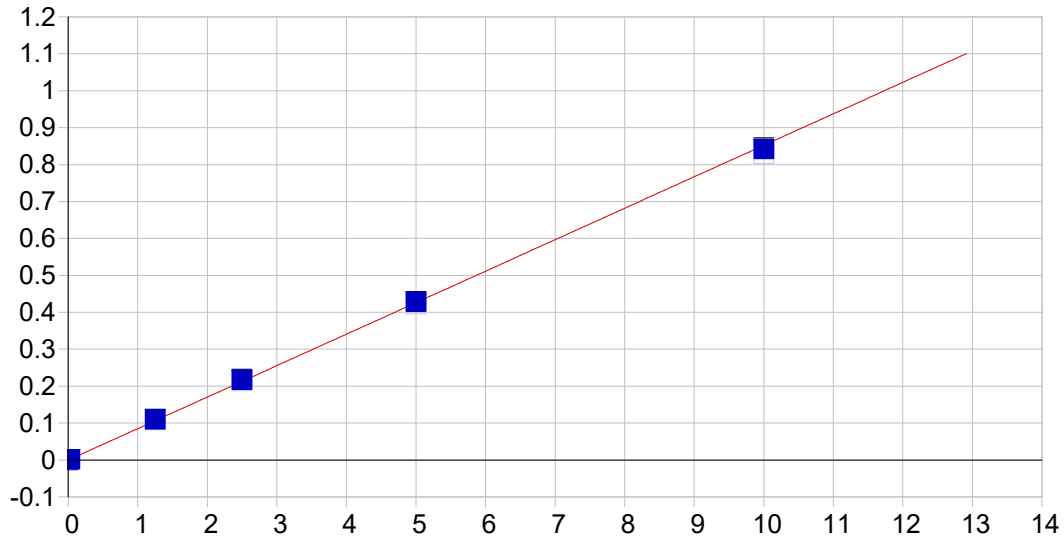


As 189.042 {478}

Date of Fit:	12/10/2024 16:20:59	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.483678	Re-Slope:	1.000000
A1 (Gain):	187.287728	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999431	Status:	OK.
Std Error of Est:	0.105947		
Predicted MDL:	0.003676		
Predicted MQL:	0.012254		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.48326	.483	1
S1	.01000	.01112	.001	11.2	2.5670	.128	1
S2	1.2500	1.3566	.107	8.53	254.56	.077	1
S3	2.5000	2.6116	.112	4.46	489.60	1.23	1
S4	5.0000	5.0416	.042	.832	944.72	1.80	1
S5	10.000	9.7391	-.261	-2.61	1824.5	4.42	1



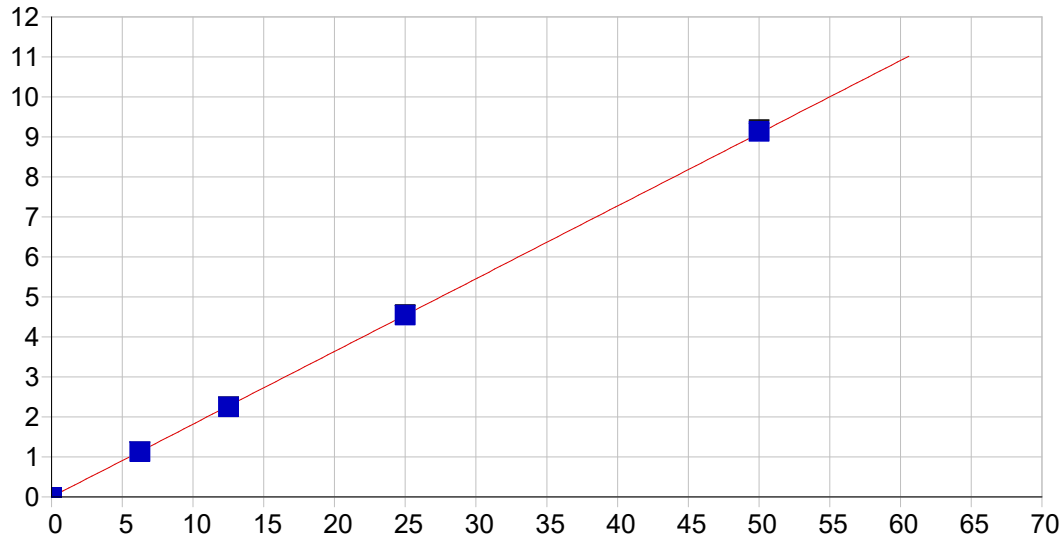
Tl 190.856 {477}

Date of Fit:	12/10/2024 16:20:59	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000188	Re-Slope:	1.000000
A1 (Gain):	0.085246	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999885	Status:	OK.
Std Error of Est:	0.000034		
Predicted MDL:	0.002031		
Predicted MQL:	0.006770		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00019	.000	1
S1	.02500	.02555	.001	2.21	.00191	.000	1
S2	1.2500	1.2925	.042	3.40	.10834	.000	1
S3	2.5000	2.5516	.052	2.06	.21402	.002	1
S4	5.0000	5.0277	.028	.555	.42181	.001	1
S5	10.000	9.8777	-.122	-1.22	.82865	.003	1

Reviewed By:kareem
On:12/13/2024 7:24:03 PM
Inst Id :P5



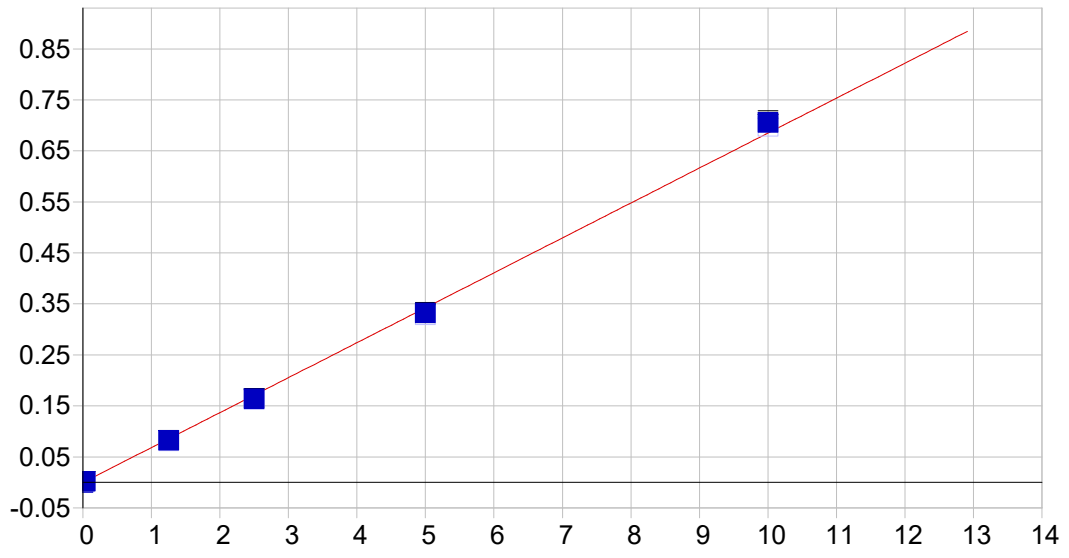
Pb 220.353 {453}

Date of Fit:	12/10/2024 16:20:59	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000473	Re-Slope:	1.000000
A1 (Gain):	0.181807	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999980	Status:	OK.
Std Error of Est:	0.000043		
Predicted MDL:	0.002159		
Predicted MQL:	0.007197		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00047	.000	1
S1	.01000	.00899	-.001	-10.1	.00210	.001	1
S2	6.2500	6.1915	-.059	-.936	1.1255	.003	1
S3	12.500	12.348	-.152	-1.21	2.2442	.013	1
S4	25.000	24.970	-.030	-.119	4.5376	.008	1
S5	50.000	50.241	.241	.482	9.1294	.038	1

Reviewed By:kareem
On:12/13/2024 7:24:03 PM
Inst Id :P5



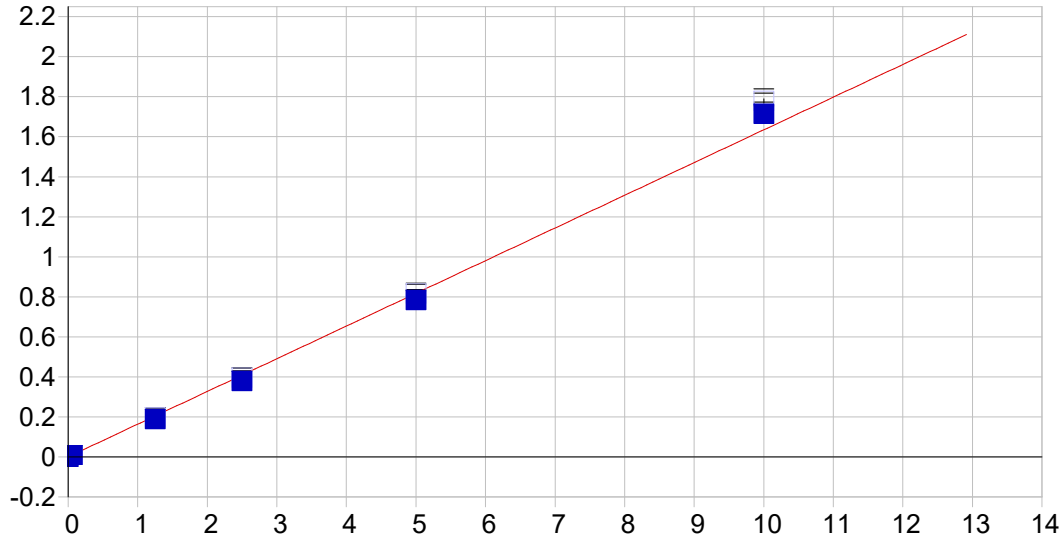
Se 196.090 {472}

Date of Fit:	12/10/2024 16:20:59	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000213	Re-Slope:	1.000000
A1 (Gain):	0.068510	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999472	Status:	OK.
Std Error of Est:	0.000069		
Predicted MDL:	0.004060		
Predicted MQL:	0.013534		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	-.00021	.000	1
S1	.03500	.03611	.001	3.18	.00226	.000	1
S2	1.2500	1.2034	-.047	-3.73	.08133	.000	1
S3	2.5000	2.3993	-.101	-4.03	.16236	.000	1
S4	5.0000	4.8474	-.153	-3.05	.32829	.001	1
S5	10.000	10.299	.299	2.99	.69817	.004	1

Reviewed By:kareem
On:12/13/2024 7:24:03 PM
Inst Id :P5



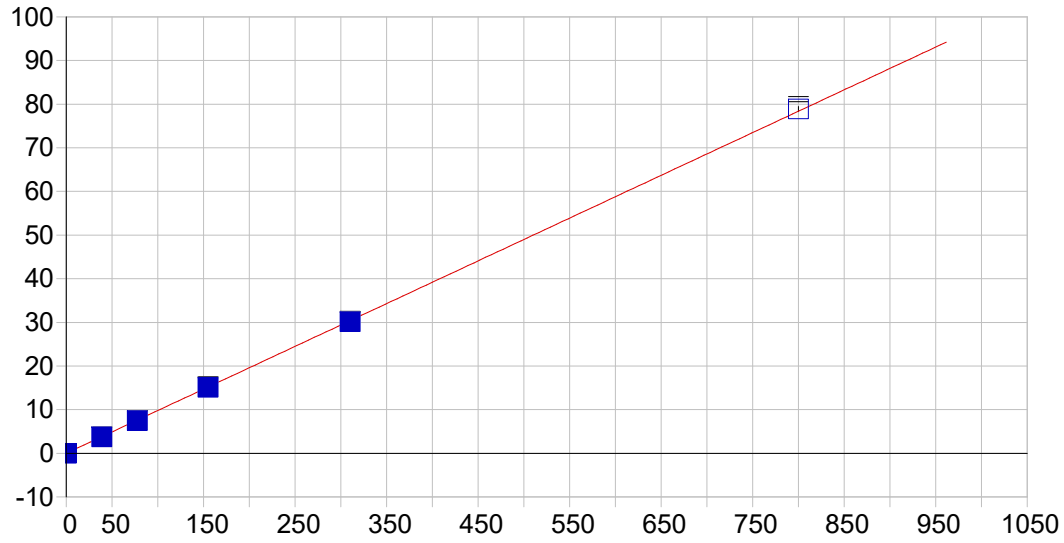
Sb 206.833 {463}

Date of Fit:	12/10/2024 16:20:59	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000194	Re-Slope:	1.000000
A1 (Gain):	0.163408	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.998673	Status:	OK.
Std Error of Est:	0.000360		
Predicted MDL:	0.002321		
Predicted MQL:	0.007735		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00001	.000	.000	.00020	.000	1
S1	.06000	.05482	-.005	-8.63	.00916	.000	1
S2	1.2500	1.1529	-.097	-7.77	.19664	.000	1
S3	2.5000	2.3165	-.183	-7.34	.39485	.002	1
S4	5.0000	4.7945	-.206	-4.11	.81586	.003	1
S5	10.000	10.491	.491	4.91	1.7790	.010	1

Reviewed By:kareem
On:12/13/2024 7:24:03 PM
Inst Id :P5



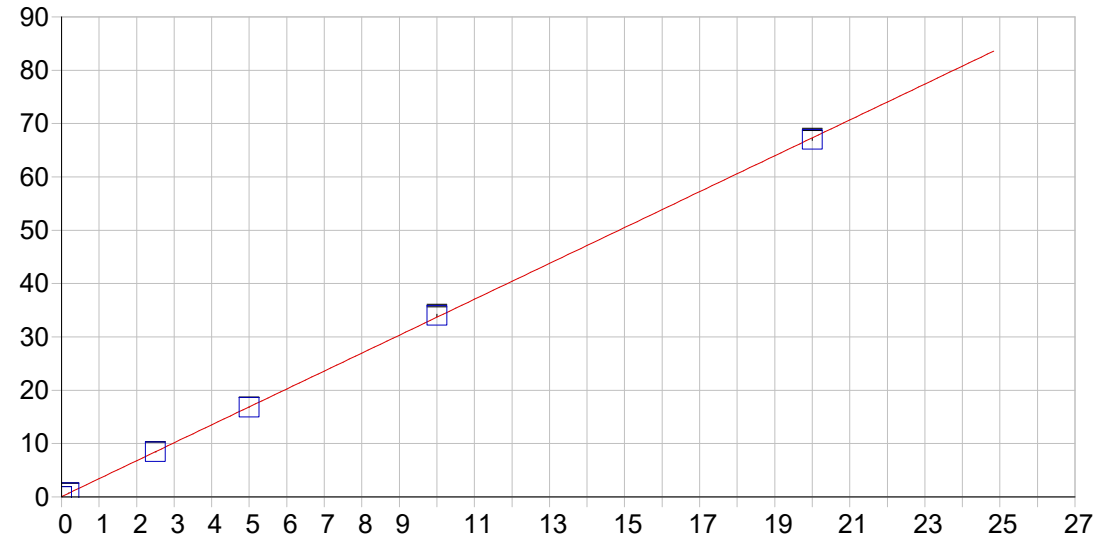
Al 396.152 { 85}

Date of Fit:	12/10/2024 16:20:59	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000376	Re-Slope:	1.000000
A1 (Gain):	0.097988	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999967	Status:	OK.
Std Error of Est:	0.000492		
Predicted MDL:	0.021243		
Predicted MQL:	0.070810		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00038	.001	1
S1	.20000	.21181	.012	5.90	.02041	.001	1
S2	38.750	38.270	-.480	-1.24	3.7537	.015	1
S3	77.500	76.159	-1.34	-1.73	7.4705	.004	1
S4	155.00	154.25	-.746	-.481	15.131	.123	1
S5	310.00	307.35	-2.65	-.856	30.149	.078	1
S6	800.00	805.21	5.21	.652	78.901	.600	1

Reviewed By:kareem
On:12/13/2024 7:24:03 PM
Inst Id :P5



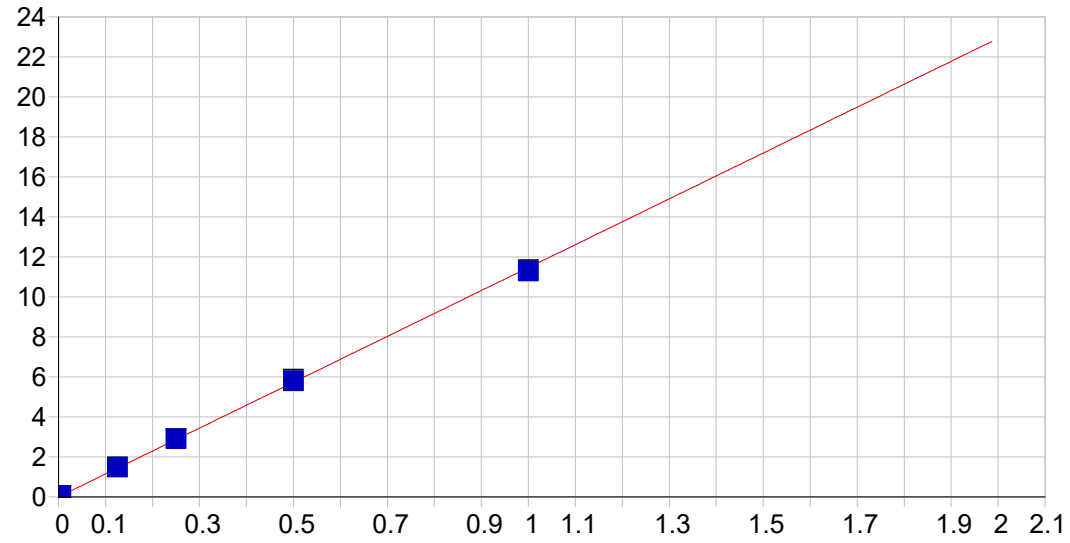
Ba 493.409 { 68}

Date of Fit:	12/10/2024 16:20:59	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.060901	Re-Slope:	1.000000
A1 (Gain):	3.362920	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999981	Status:	OK.
Std Error of Est:	0.002177		
Predicted MDL:	0.001442		
Predicted MQL:	0.004808		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00001	-.000	.000	.06088	.001	1
S1	.20000	.20513	.005	2.56	.75072	.004	1
S2	2.5000	2.4982	-.002	-.072	8.4622	.019	1
S3	5.0000	4.9852	-.015	-.295	16.826	.023	1
S4	10.000	10.094	.094	.939	34.006	.241	1
S5	20.000	19.918	-.082	-.412	67.042	.218	1

Reviewed By:kareem
On:12/13/2024 7:24:03 PM
Inst Id :P5



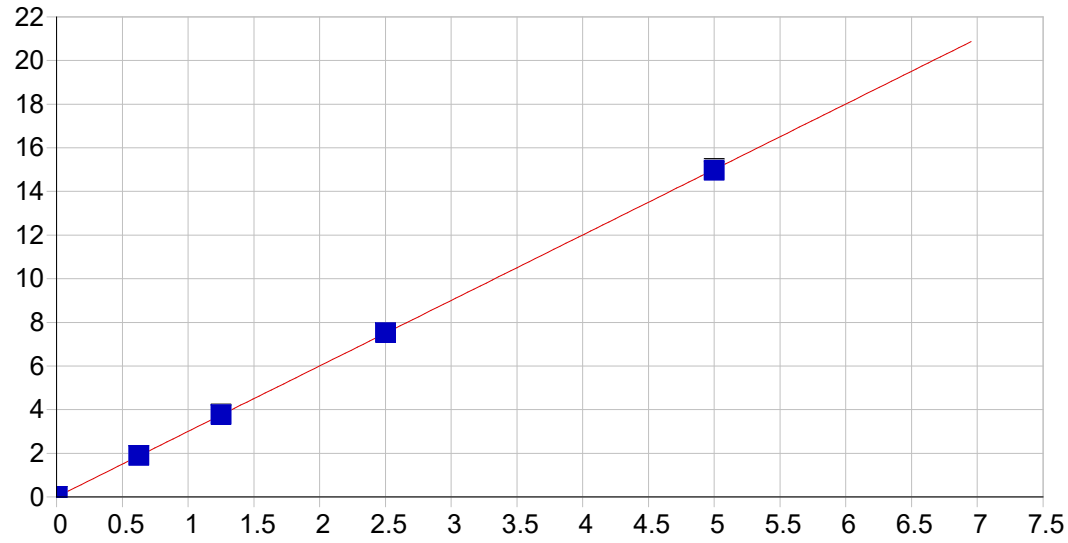
Be 234.861 {144}

Date of Fit:	12/10/2024 16:20:59	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.002662	Re-Slope:	1.000000
A1 (Gain):	11.461841	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999869	Status:	OK.
Std Error of Est:	0.000694		
Predicted MDL:	0.000100		
Predicted MQL:	0.000334		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00266	.001	1
S1	.00500	.00534	.000	6.75	.06379	.001	1
S2	.12500	.12917	.004	3.34	1.4766	.007	1
S3	.25000	.25325	.003	1.30	2.8922	.013	1
S4	.50000	.50646	.006	1.29	5.7813	.076	1
S5	1.0000	.98578	-.014	-1.42	11.249	.057	1

Reviewed By:kareem
On:12/13/2024 7:24:03 PM
Inst Id :P5



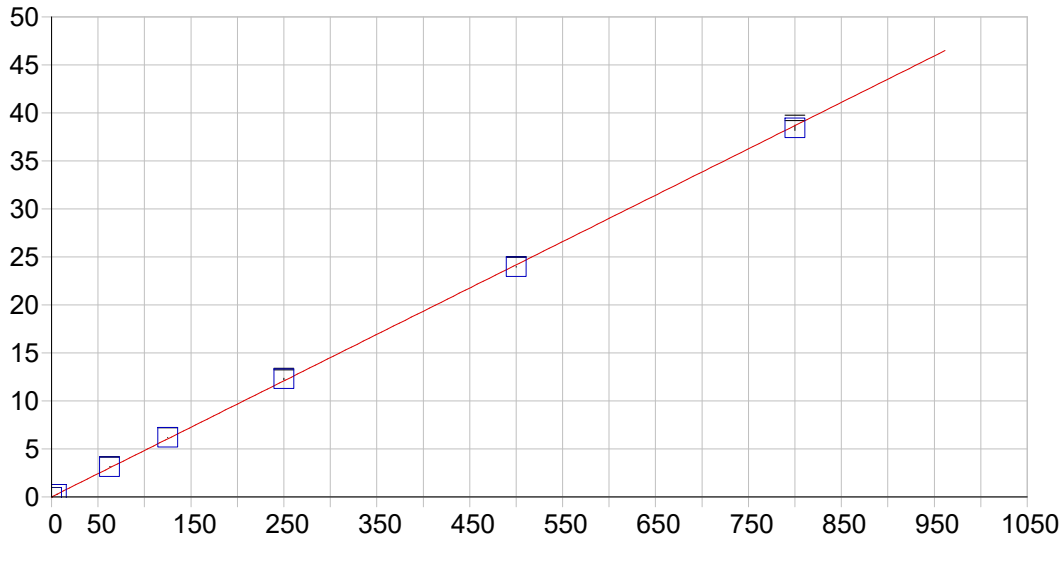
Cd 214.438 {457}

Date of Fit:	12/10/2024 16:20:59	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000130	Re-Slope:	1.000000
A1 (Gain):	3.001364	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999994	Status:	OK.
Std Error of Est:	0.000089		
Predicted MDL:	0.000089		
Predicted MQL:	0.000295		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00013	.000	1
S1	.00500	.00473	-.000	-5.32	.01439	.000	1
S2	.62500	.63009	.005	.814	1.8941	.004	1
S3	1.2500	1.2542	.004	.335	3.7702	.021	1
S4	2.5000	2.5049	.005	.195	7.5297	.012	1
S5	5.0000	4.9861	-.014	-.278	14.988	.066	1

Reviewed By:kareem
On:12/13/2024 7:24:03 PM
Inst Id :P5



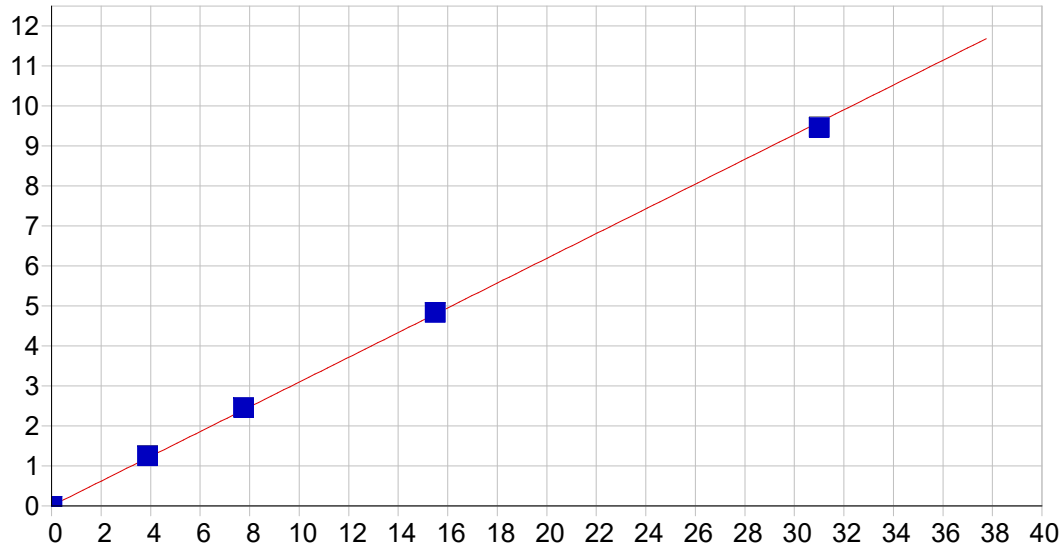
Ca 373.690 { 90}

Date of Fit:	12/10/2024 16:20:59	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.003495	Re-Slope:	1.000000
A1 (Gain):	0.048343	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999918	Status:	OK.
Std Error of Est:	0.002163		
Predicted MDL:	0.035651		
Predicted MQL:	0.118838		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00050	-.001	.000	.00347	.002	1
S1	5.0000	5.2067	.207	4.13	.25520	.002	1
S2	62.500	64.674	2.17	3.48	3.1300	.011	1
S3	125.00	127.90	2.90	2.32	6.1864	.012	1
S4	250.00	254.05	4.05	1.62	12.285	.093	1
S5	500.00	495.51	-4.49	-.898	23.958	.041	1
S6	800.00	795.17	-4.83	-.604	38.444	.275	1

Reviewed By:kareem
On:12/13/2024 7:24:03 PM
Inst Id :P5



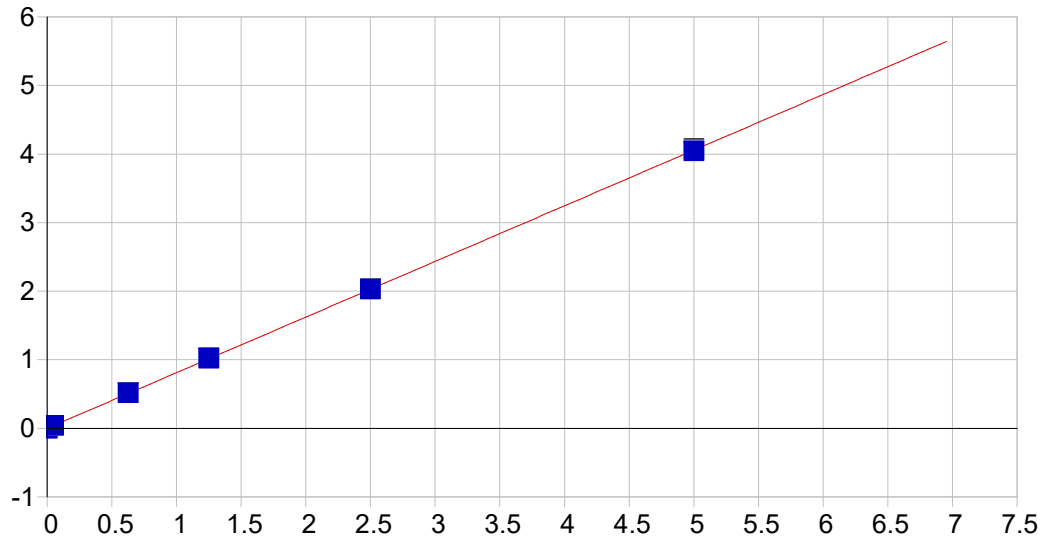
Cr 267.716 {126}

Date of Fit:	12/10/2024 16:20:59	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000406	Re-Slope:	1.000000
A1 (Gain):	0.309519	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999852	Status:	OK.
Std Error of Est:	0.000157		
Predicted MDL:	0.000691		
Predicted MQL:	0.002304		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00041	.000	1
S1	.01000	.01033	.000	3.29	.00361	.000	1
S2	3.8750	4.0312	.156	4.03	1.2491	.002	1
S3	7.7500	7.9267	.177	2.28	2.4557	.005	1
S4	15.500	15.604	.104	.673	4.8339	.004	1
S5	31.000	30.562	-.438	-1.41	9.4675	.007	1

Reviewed By:kareem
On:12/13/2024 7:24:03 PM
Inst Id :P5



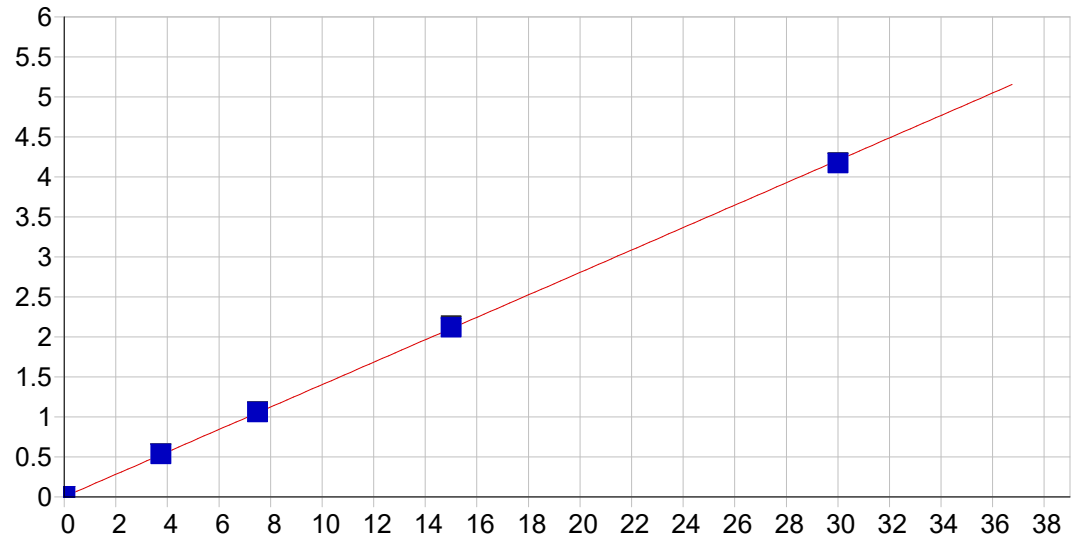
Co 228.616 {448}

Date of Fit:	12/10/2024 16:20:59	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000165	Re-Slope:	1.000000
A1 (Gain):	0.811374	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999985	Status:	OK.
Std Error of Est:	0.000120		
Predicted MDL:	0.000354		
Predicted MQL:	0.001181		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00017	.000	1
S1	.05000	.05065	.001	1.31	.04107	.000	1
S2	.62500	.63644	.011	1.83	.51786	.001	1
S3	1.2500	1.2556	.006	.446	1.0218	.006	1
S4	2.5000	2.4979	-.002	-.083	2.0331	.005	1
S5	5.0000	4.9844	-.016	-.312	4.0571	.018	1

Reviewed By:kareem
On:12/13/2024 7:24:03 PM
Inst Id :P5



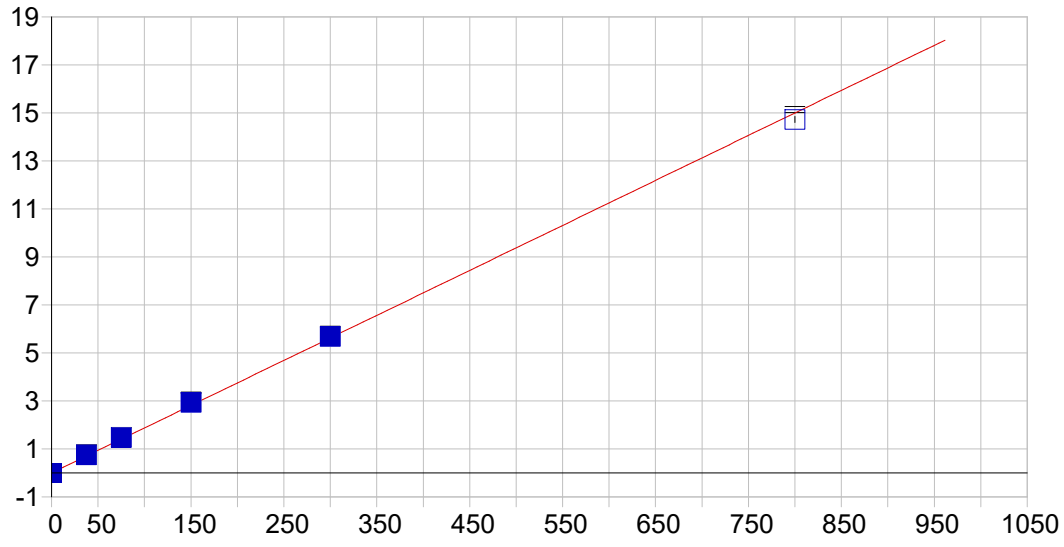
Cu 324.754 {104}

Date of Fit:	12/10/2024 16:20:59	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.001465	Re-Slope:	1.000000
A1 (Gain):	0.140202	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999953	Status:	OK.
Std Error of Est:	0.000062		
Predicted MDL:	0.007512		
Predicted MQL:	0.025039		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00146	.001	1
S1	.02500	.02783	.003	11.3	.00536	.001	1
S2	3.7500	3.8213	.071	1.90	.53716	.001	1
S3	7.5000	7.5637	.064	.849	1.0618	.003	1
S4	15.000	15.117	.117	.779	2.1206	.014	1
S5	30.000	29.745	-.255	-.849	4.1714	.005	1

Reviewed By:kareem
On:12/13/2024 7:24:03 PM
Inst Id :P5



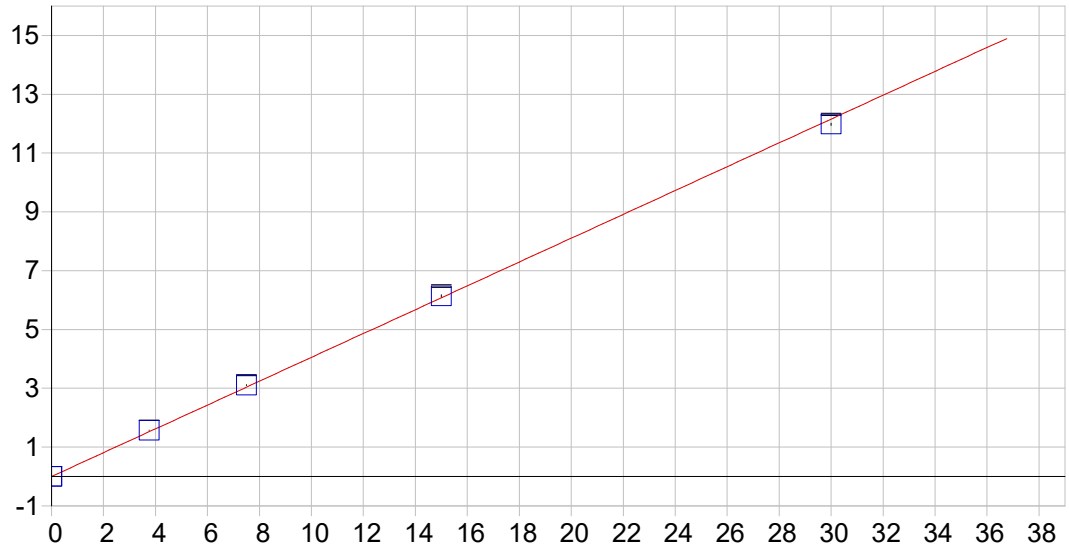
Fe 259.837 {130}

Date of Fit:	12/10/2024 16:20:59	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000021	Re-Slope:	1.000000
A1 (Gain):	0.018749	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999691	Status:	OK.
Std Error of Est:	0.000203		
Predicted MDL:	0.028072		
Predicted MQL:	0.093573		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00004	-.000	.000	-.00002	.000	1
S1	.10000	.12850	.028	28.5	.00239	.001	1
S2	37.500	39.721	2.22	5.92	.74488	.000	1
S3	75.000	78.460	3.46	4.61	1.4714	.002	1
S4	150.00	156.15	6.15	4.10	2.9284	.024	1
S5	300.00	302.70	2.70	.900	5.6766	.011	1
S6	800.00	785.43	-14.6	-1.82	14.726	.132	1

Reviewed By:kareem
On:12/13/2024 7:24:03 PM
Inst Id :P5



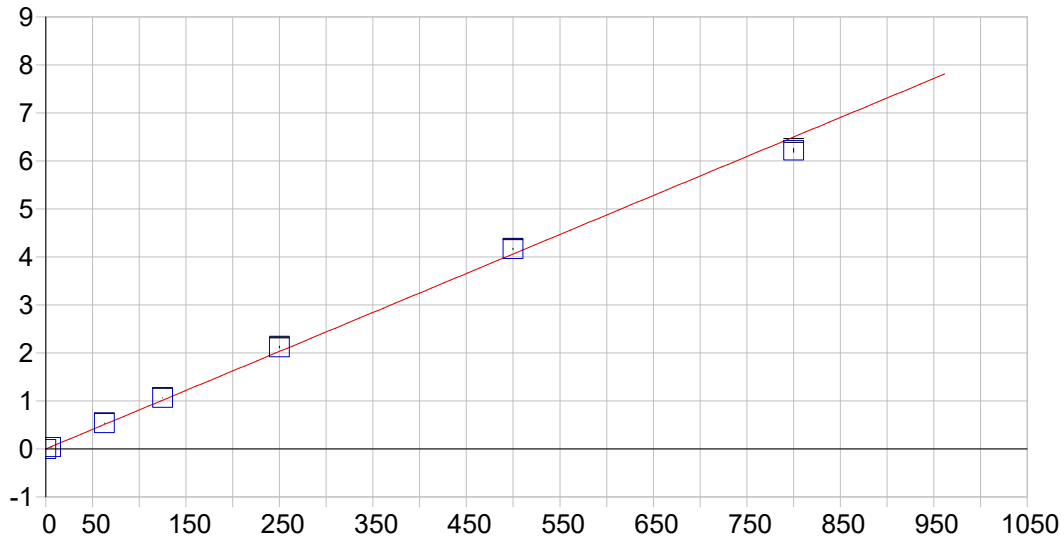
Mn 257.610 {131}

Date of Fit:	12/10/2024 16:20:59	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000193	Re-Slope:	1.000000
A1 (Gain):	0.405265	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999857	Status:	OK.
Std Error of Est:	0.000244		
Predicted MDL:	0.001362		
Predicted MQL:	0.004539		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00019	.000	1
S1	.01500	.01648	.001	9.90	.00649	.000	1
S2	3.7500	3.8818	.132	3.51	1.5729	.006	1
S3	7.5000	7.6622	.162	2.16	3.1050	.016	1
S4	15.000	15.145	.145	.967	6.1376	.045	1
S5	30.000	29.560	-.440	-1.47	11.979	.034	1

Reviewed By:kareem
On:12/13/2024 7:24:03 PM
Inst Id :P5



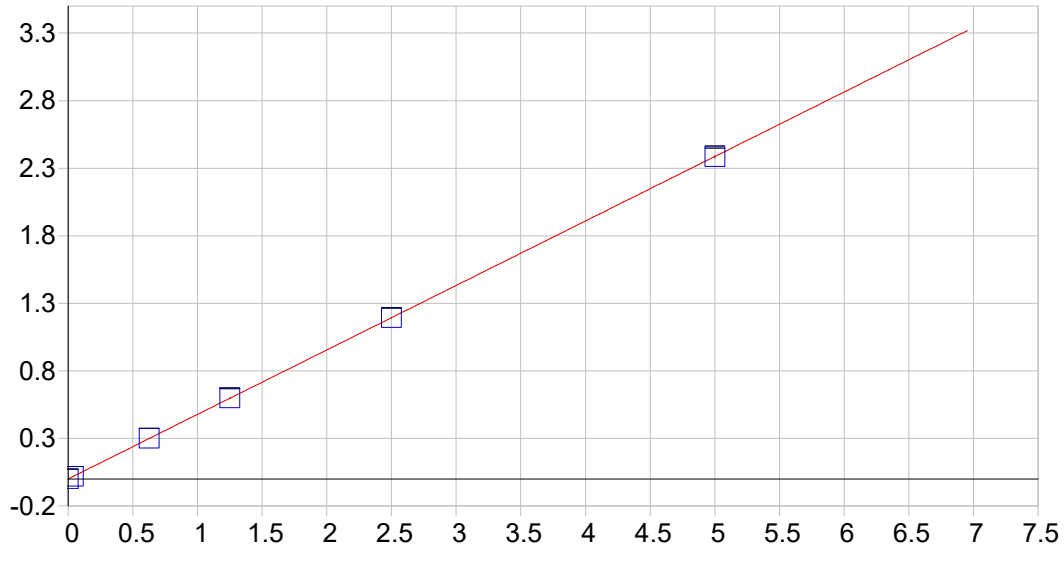
Mg 279.079 {121}

Date of Fit:	12/10/2024 16:20:59	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000300	Re-Slope:	1.000000
A1 (Gain):	0.008123	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999181	Status:	OK.
Std Error of Est:	0.001148		
Predicted MDL:	0.078006		
Predicted MQL:	0.260019		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00083	-.001	.000	-.00031	.000	1
S1	5.0000	5.1499	.150	3.00	.04153	.000	1
S2	62.500	66.172	3.67	5.87	.53720	.002	1
S3	125.00	131.24	6.24	5.00	1.0658	.003	1
S4	250.00	261.28	11.3	4.51	2.1220	.017	1
S5	500.00	513.03	13.0	2.61	4.1669	.016	1
S6	800.00	765.62	-34.4	-4.30	6.2187	.038	1

Reviewed By:kareem
On:12/13/2024 7:24:03 PM
Inst Id :P5



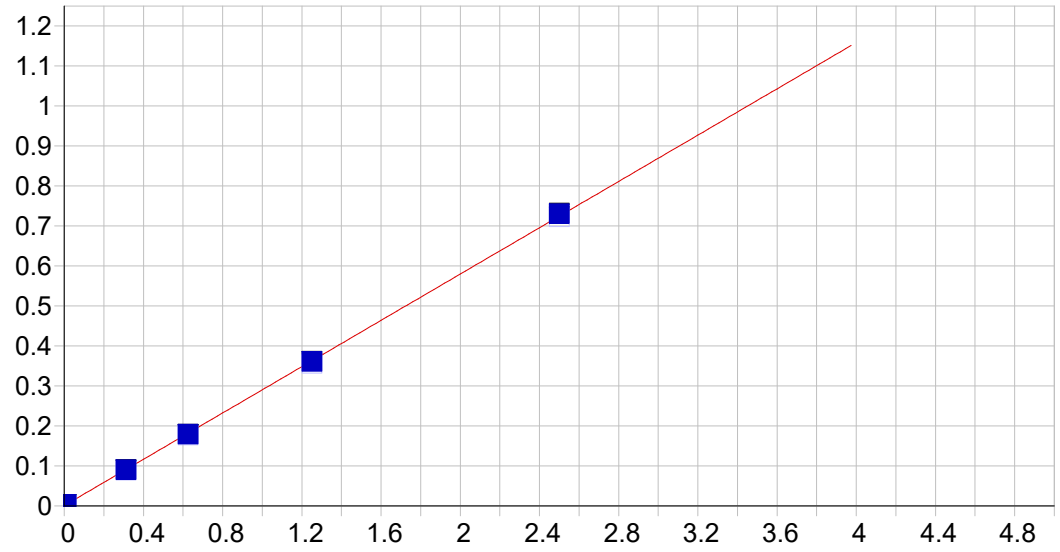
Ni 231.604 {446}

Date of Fit:	12/10/2024 16:20:59	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000086	Re-Slope:	1.000000
A1 (Gain):	0.477276	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999998	Status:	OK.
Std Error of Est:	0.000024		
Predicted MDL:	0.000621		
Predicted MQL:	0.002069		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00009	.000	1
S1	.04000	.03971	-.000	-.713	.01904	.000	1
S2	.62500	.62917	.004	.666	.30037	.001	1
S3	1.2500	1.2519	.002	.152	.59759	.003	1
S4	2.5000	2.5005	.000	.019	1.1935	.003	1
S5	5.0000	4.9937	-.006	-.125	2.3835	.009	1

Reviewed By:kareem
On:12/13/2024 7:24:03 PM
Inst Id :P5



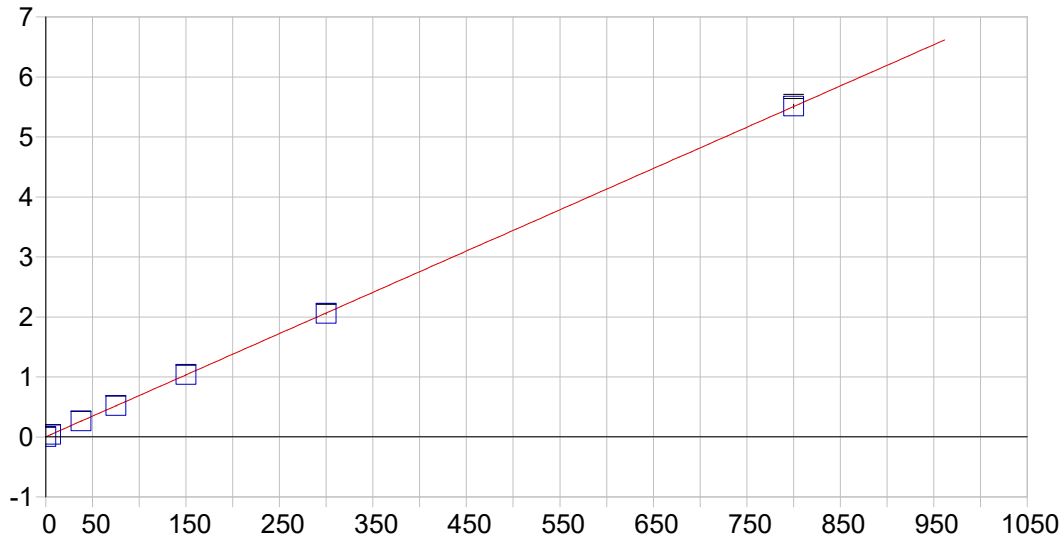
Ag 328.068 {103}

Date of Fit:	12/10/2024 16:20:59	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000903	Re-Slope:	1.000000
A1 (Gain):	0.289500	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999951	Status:	OK.
Std Error of Est:	0.000024		
Predicted MDL:	0.001258		
Predicted MQL:	0.004193		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00090	.000	1
S1	.01000	.00976	-.000	-2.41	.00372	.000	1
S2	.31250	.30806	-.004	-1.42	.08900	.000	1
S3	.62500	.61547	-.010	-1.52	.17691	.000	1
S4	1.2500	1.2425	-.008	-.604	.35625	.001	1
S5	2.5000	2.5218	.022	.870	.72227	.001	1

Reviewed By:kareem
On:12/13/2024 7:24:03 PM
Inst Id :P5



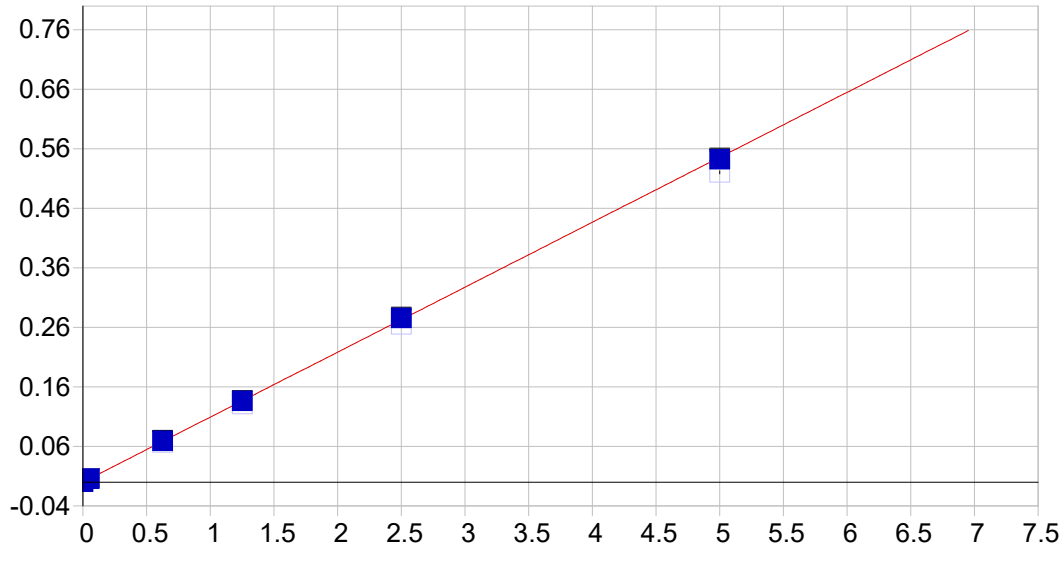
Na 818.326 { 41}

Date of Fit:	12/10/2024 16:20:59	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.002398	Re-Slope:	1.000000
A1 (Gain):	0.006878	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999994	Status:	OK.
Std Error of Est:	0.000072		
Predicted MDL:	0.580706		
Predicted MQL:	1.935687		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00014	-.000	.000	.00240	.003	1
S1	5.0000	5.1035	.103	2.07	.03750	.001	1
S2	37.500	37.849	.349	.932	.26274	.002	1
S3	75.000	75.021	.021	.028	.51841	.001	1
S4	150.00	150.32	.325	.216	1.0364	.004	1
S5	300.00	298.40	-1.60	-.534	2.0549	.008	1
S6	800.00	800.80	.803	.100	5.5105	.036	1

Reviewed By:kareem
On:12/13/2024 7:24:03 PM
Inst Id :P5



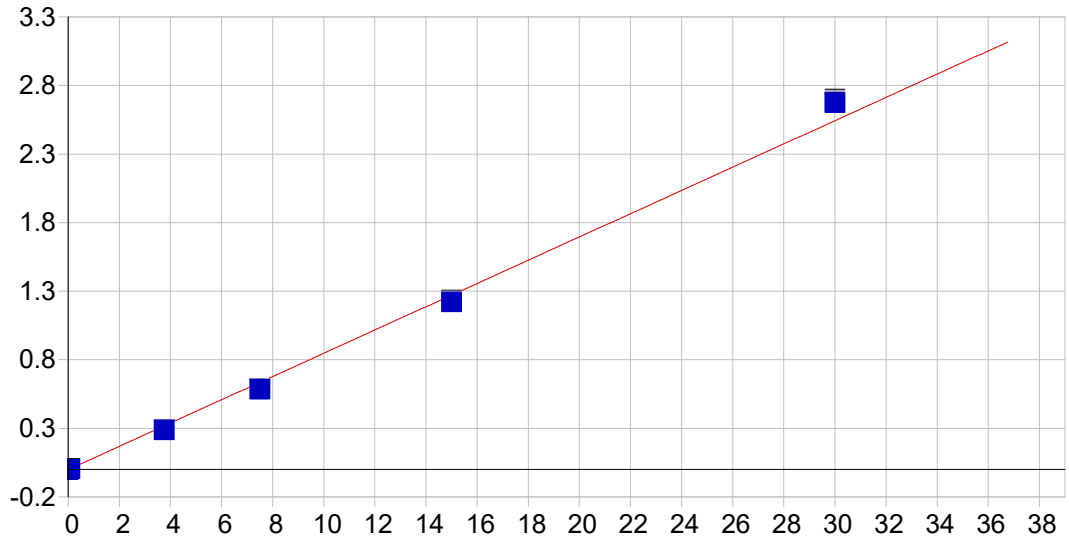
V 292.402 {115}

Date of Fit:	12/10/2024 16:20:59	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000079	Re-Slope:	1.000000
A1 (Gain):	0.109155	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999958	Status:	OK.
Std Error of Est:	0.000025		
Predicted MDL:	0.007828		
Predicted MQL:	0.026092		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00008	.001	1
S1	.05000	.05329	.003	6.59	.00588	.000	1
S2	.62500	.63092	.006	.946	.06621	.001	1
S3	1.2500	1.2484	-.002	-.126	.13088	.001	1
S4	2.5000	2.5245	.025	.981	.26471	.001	1
S5	5.0000	4.9677	-.032	-.646	.52046	.002	1

Reviewed By:kareem
On:12/13/2024 7:24:03 PM
Inst Id :P5



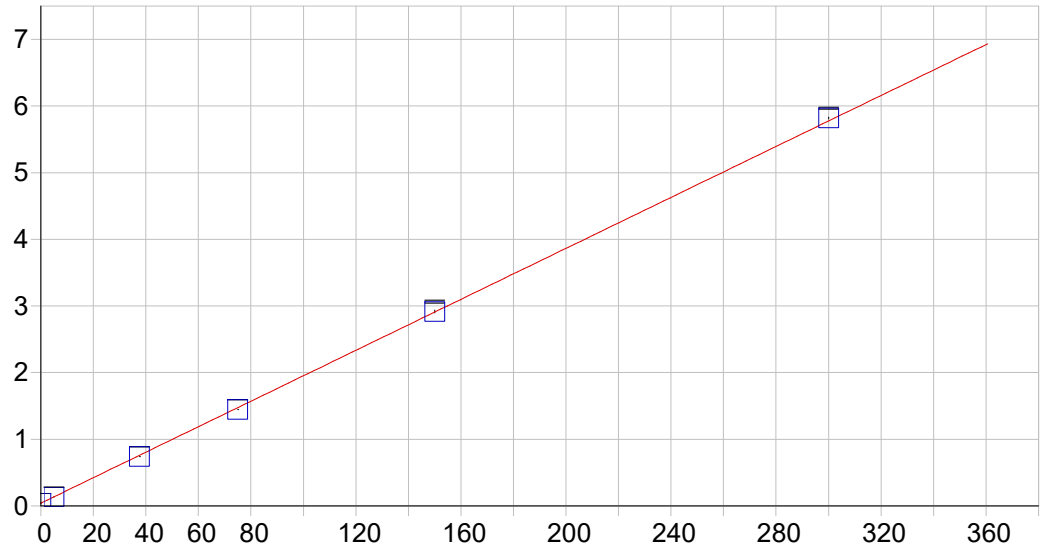
Zn 213.856 {158}

Date of Fit:	12/10/2024 16:20:59	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000670	Re-Slope:	1.000000
A1 (Gain):	0.084812	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.998397	Status:	OK.
Std Error of Est:	0.000344		
Predicted MDL:	0.005228		
Predicted MQL:	0.017426		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00001	.000	.000	-.00067	.000	1
S1	.06000	.05528	-.005	-7.86	.00403	.000	1
S2	3.7500	3.3986	-.351	-9.37	.28913	.003	1
S3	7.5000	6.9043	-.596	-7.94	.58801	.004	1
S4	15.000	14.412	-.588	-3.92	1.2278	.008	1
S5	30.000	31.540	1.54	5.13	2.6868	.012	1

Reviewed By:kareem
On:12/13/2024 7:24:03 PM
Inst Id :P5



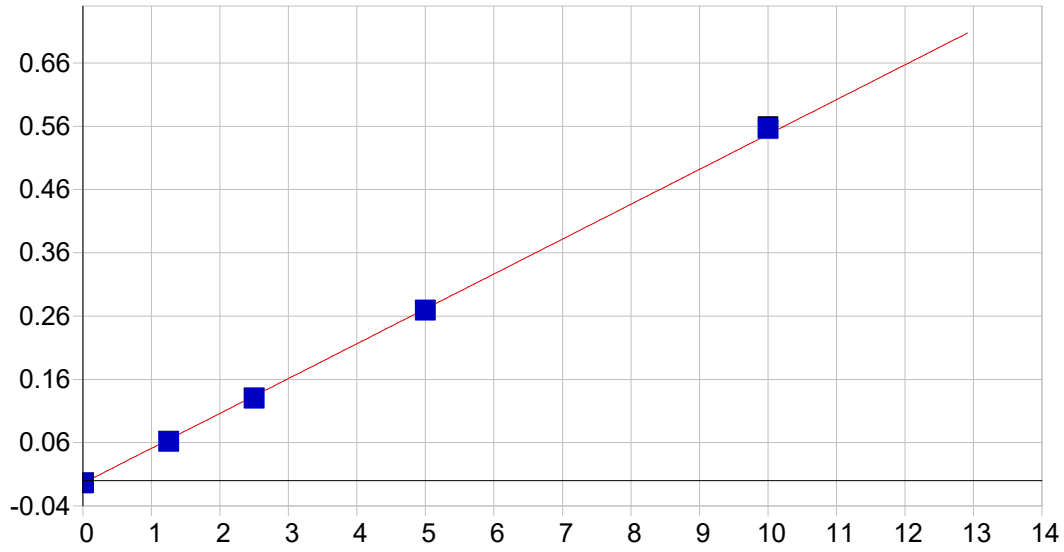
K 769.896 { 44}

Date of Fit:	12/10/2024 16:20:59	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.041081	Re-Slope:	1.000000
A1 (Gain):	0.019116	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999927	Status:	OK.
Std Error of Est:	0.000475		
Predicted MDL:	0.171709		
Predicted MQL:	0.572365		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00038	.000	.000	.04109	.004	1
S1	5.0000	4.7992	-.201	-4.02	.13282	.002	1
S2	37.500	36.575	-.925	-2.47	.74026	.002	1
S3	75.000	73.427	-1.57	-2.10	1.4447	.001	1
S4	150.00	150.43	.428	.285	2.9167	.020	1
S5	300.00	302.27	2.27	.757	5.8193	.012	1

Reviewed By:kareem
On:12/13/2024 7:24:03 PM
Inst Id :P5



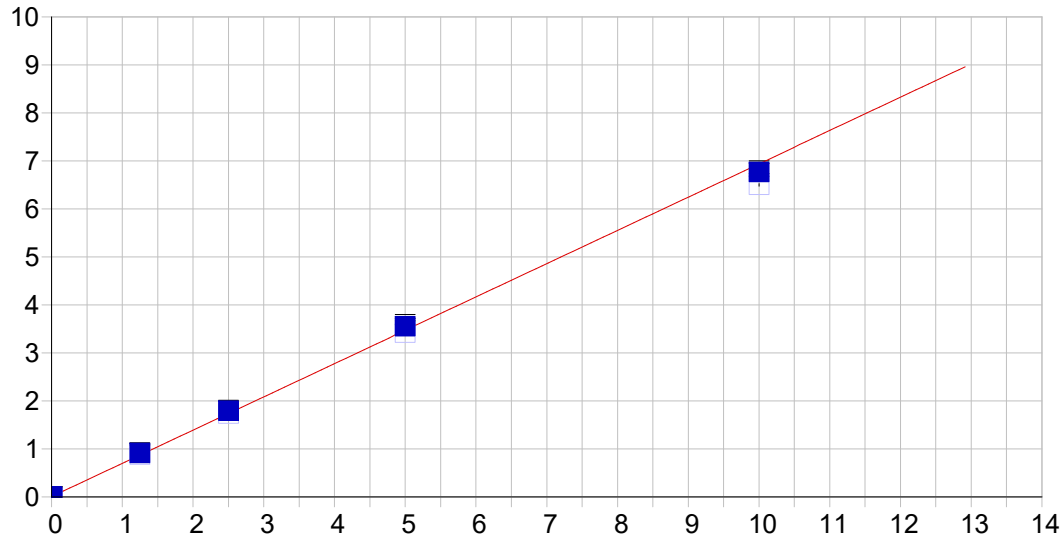
P 177.495 {490}

Date of Fit:	12/10/2024 16:20:59	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.004009	Re-Slope:	1.000000
A1 (Gain):	0.055095	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999781	Status:	OK.
Std Error of Est:	0.000019		
Predicted MDL:	0.002891		
Predicted MQL:	0.009637		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	-.00401	.000	1
S1	.01000	.00773	-.002	-22.7	-.00358	.000	1
S2	1.2500	1.1959	-.054	-4.33	.06178	.000	1
S3	2.5000	2.4271	-.073	-2.92	.12951	.001	1
S4	5.0000	4.9593	-.041	-.815	.26882	.000	1
S5	10.000	10.170	.170	1.70	.55551	.003	1

Reviewed By:kareem
On:12/13/2024 7:24:03 PM
Inst Id :P5



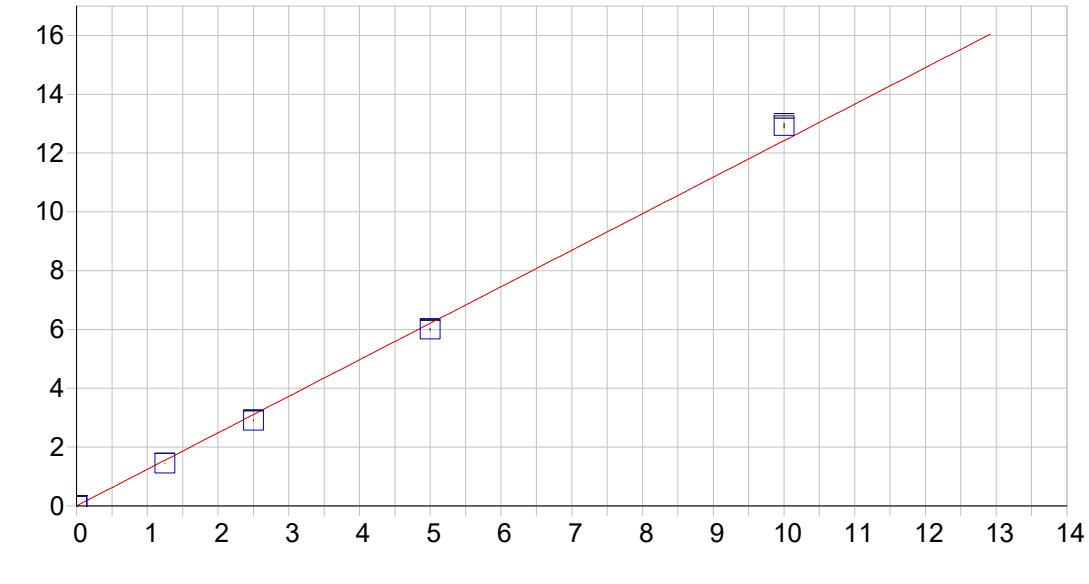
B 249.678 {135}

Date of Fit:	12/10/2024 16:20:59	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.004316	Re-Slope:	1.000000
A1 (Gain):	0.693479	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999175	Status:	OK.
Std Error of Est:	0.000455		
Predicted MDL:	0.002065		
Predicted MQL:	0.006885		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00001	.000	.000	.00432	.001	1
S1	.01000	-.00173	-.012	-117.	.00308	.001	1
S2	1.2500	1.3127	.063	5.02	.88169	.005	1
S3	2.5000	2.5844	.084	3.38	1.7306	.007	1
S4	5.0000	5.1151	.115	2.30	3.4197	.040	1
S5	10.000	9.7498	-.250	-2.50	6.5019	.028	1

Reviewed By:kareem
On:12/13/2024 7:24:03 PM
Inst Id :P5



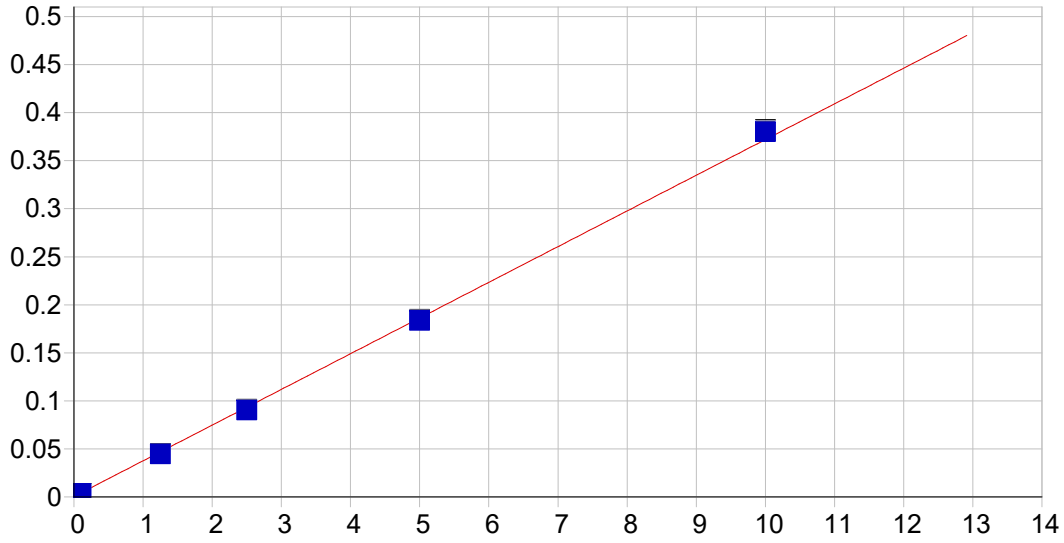
Mo 202.030 {467}

Date of Fit:	12/10/2024 16:20:59	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.001229	Re-Slope:	1.000000
A1 (Gain):	1.242036	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.998999	Status:	OK.
Std Error of Est:	0.000932		
Predicted MDL:	0.000304		
Predicted MQL:	0.001014		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00123	.000	1
S1	.01000	.00914	-.001	-8.56	.01259	.000	1
S2	1.2500	1.1685	-.081	-6.52	1.4526	.002	1
S3	2.5000	2.3421	-.158	-6.31	2.9103	.014	1
S4	5.0000	4.8323	-.168	-3.35	6.0031	.023	1
S5	10.000	10.408	.408	4.08	12.928	.077	1

Reviewed By:kareem
On:12/13/2024 7:24:03 PM
Inst Id :P5



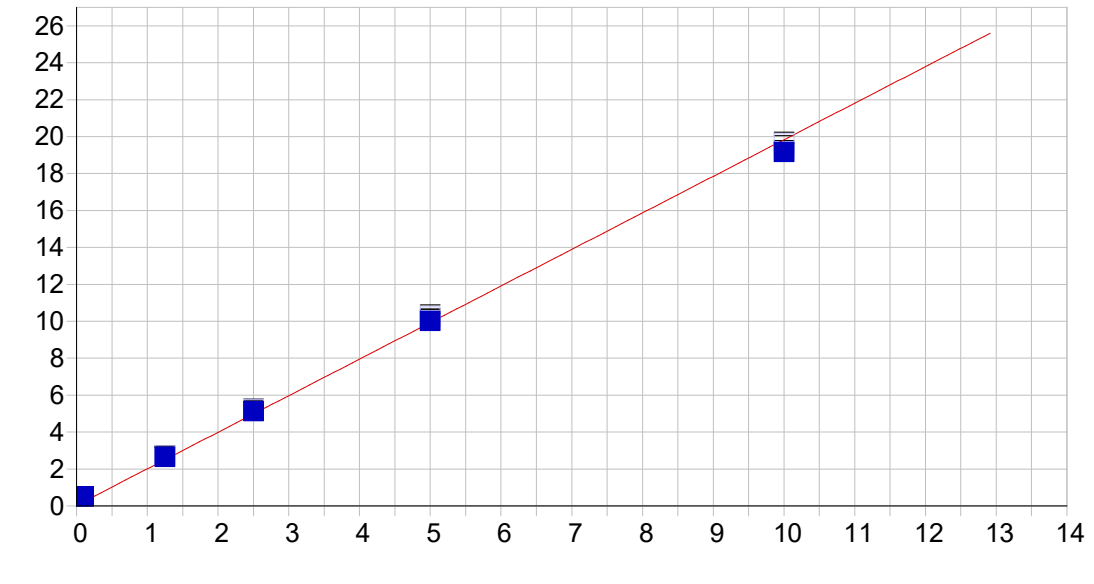
S 182.034 {485}

Date of Fit:	12/10/2024 16:20:59	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000390	Re-Slope:	1.000000
A1 (Gain):	0.037160	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999673	Status:	OK.
Std Error of Est:	0.000051		
Predicted MDL:	0.003884		
Predicted MQL:	0.012945		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00002	.000	.000	.00039	.000	1
S1	.10000	.08778	-.012	-12.2	.00365	.000	1
S2	1.2500	1.1894	-.061	-4.85	.04474	.000	1
S3	2.5000	2.4230	-.077	-3.08	.09073	.001	1
S4	5.0000	4.9327	-.067	-1.35	.18428	.001	1
S5	10.000	10.217	.217	2.17	.38125	.001	1

Reviewed By:kareem
On:12/13/2024 7:24:03 PM
Inst Id :P5



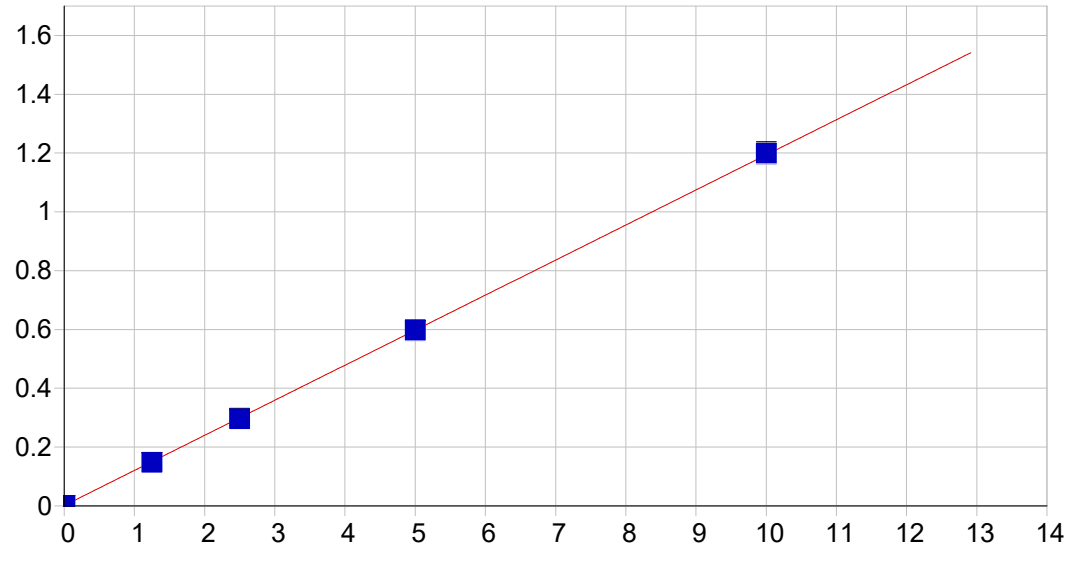
Si 251.611 {134}

Date of Fit:	12/10/2024 16:20:59	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.028174	Re-Slope:	1.000000
A1 (Gain):	1.980091	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.994455	Status:	OK.
Std Error of Est:	0.011379		
Predicted MDL:	0.000744		
Predicted MQL:	0.002478		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00015	-.000	.000	.02788	.001	1
S1	.10000	.24199	.142	142.	.51014	.005	1
S2	1.2500	1.3283	.078	6.26	2.7145	.004	1
S3	2.5000	2.5731	.073	2.92	5.2355	.024	1
S4	5.0000	5.0424	.042	.847	10.237	.110	1
S5	10.000	9.6655	-.335	-3.35	19.616	.094	1

Reviewed By:kareem
On:12/13/2024 7:24:03 PM
Inst Id :P5



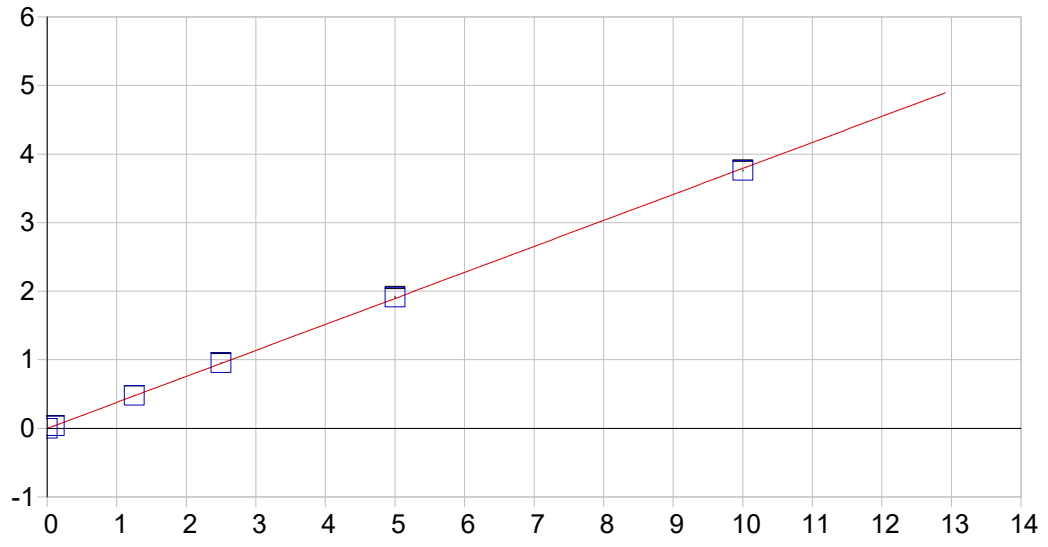
Sn 189.989 {478}

Date of Fit:	12/10/2024 16:20:59	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.001501	Re-Slope:	1.000000
A1 (Gain):	0.119236	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999976	Status:	OK.
Std Error of Est:	0.000012		
Predicted MDL:	0.001129		
Predicted MQL:	0.003765		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00150	.000	1
S1	.00700	.00692	-.000	-1.19	.00229	.000	1
S2	1.2500	1.2281	-.022	-1.75	.14719	.001	1
S3	2.5000	2.4739	-.026	-1.04	.29499	.002	1
S4	5.0000	4.9999	-.000	-.003	.59468	.001	1
S5	10.000	10.048	.048	.482	1.1936	.005	1

Reviewed By:kareem
On:12/13/2024 7:24:03 PM
Inst Id :P5



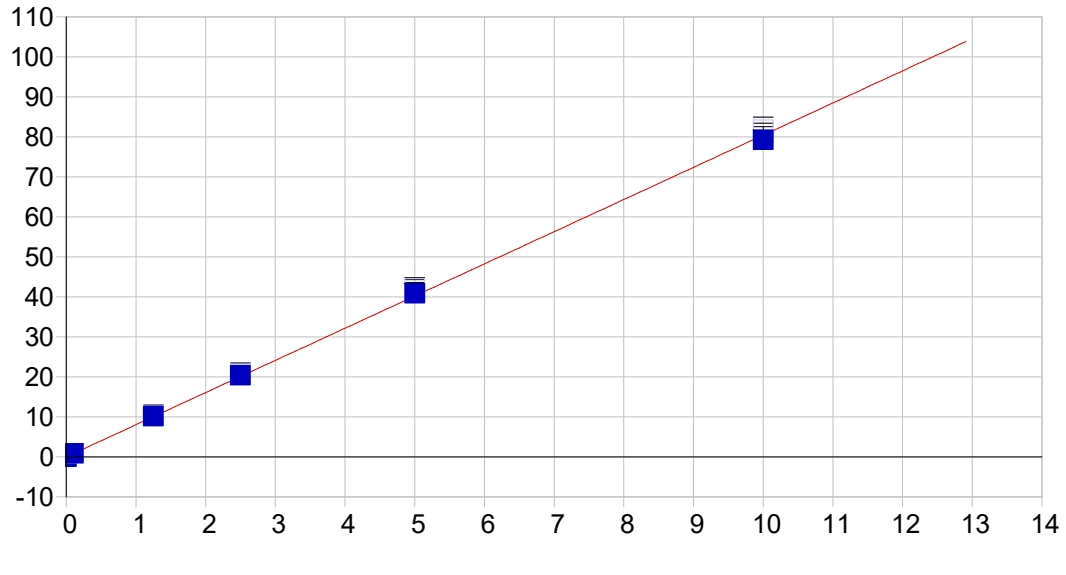
Ti 336.121 {100}

Date of Fit:	12/10/2024 16:20:59	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.001290	Re-Slope:	1.000000
A1 (Gain):	0.379152	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999963	Status:	OK.
Std Error of Est:	0.000172		
Predicted MDL:	0.003264		
Predicted MQL:	0.010878		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00129	.001	1
S1	.10000	.10258	.003	2.58	.03761	.001	1
S2	1.2500	1.2647	.015	1.18	.47822	.002	1
S3	2.5000	2.5203	.020	.812	.95428	.006	1
S4	5.0000	5.0417	.042	.834	1.9103	.015	1
S5	10.000	9.9207	-.079	-.793	3.7602	.011	1

Reviewed By:kareem
On:12/13/2024 7:24:03 PM
Inst Id :P5



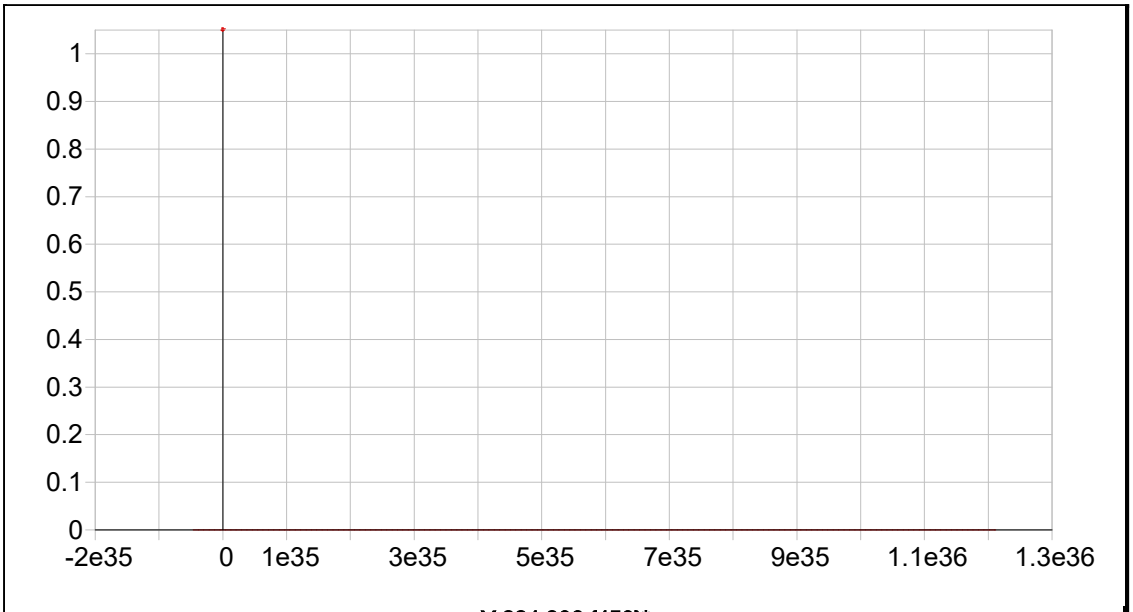
Sr 407.771 { 83}

Date of Fit:	12/10/2024 16:20:59	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.002779	Re-Slope:	1.000000
A1 (Gain):	8.043023	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999889	Status:	OK.
Std Error of Est:	0.006557		
Predicted MDL:	0.000240		
Predicted MQL:	0.000802		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00001	-.000	.000	-.00286	.001	1
S1	.10000	.10706	.007	7.06	.85911	.002	1
S2	1.2500	1.2671	.017	1.37	10.490	.016	1
S3	2.5000	2.5326	.033	1.31	20.971	.071	1
S4	5.0000	5.0822	.082	1.64	42.080	.278	1
S5	10.000	9.8612	-.139	-1.39	81.724	.747	1

Reviewed By:kareem
On:12/13/2024 7:24:03 PM
Inst Id :P5

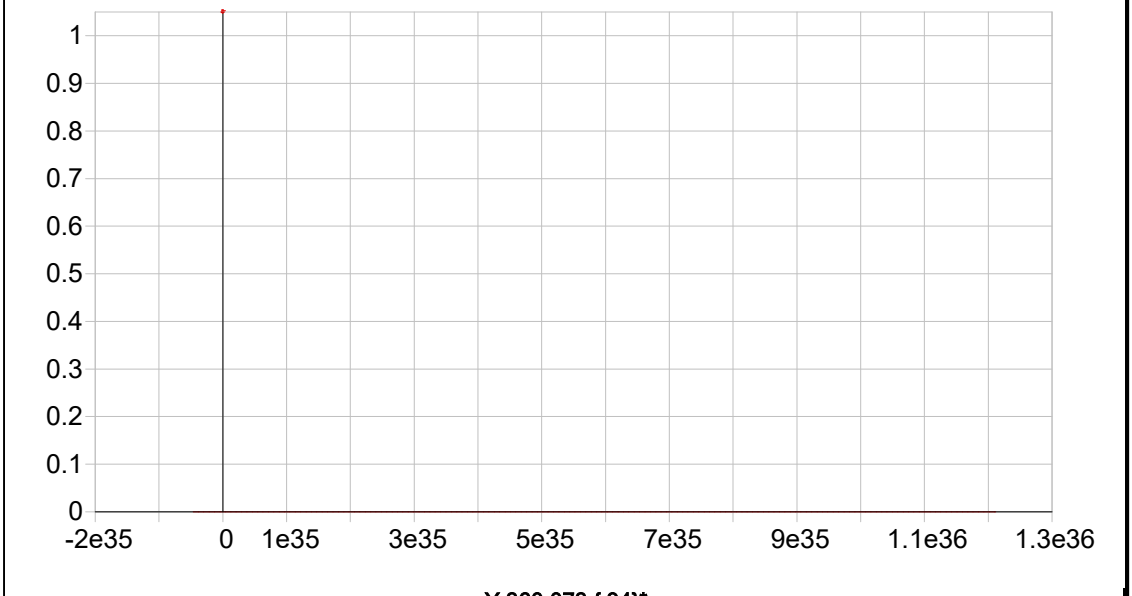


Y 224.306 {450}*

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}*

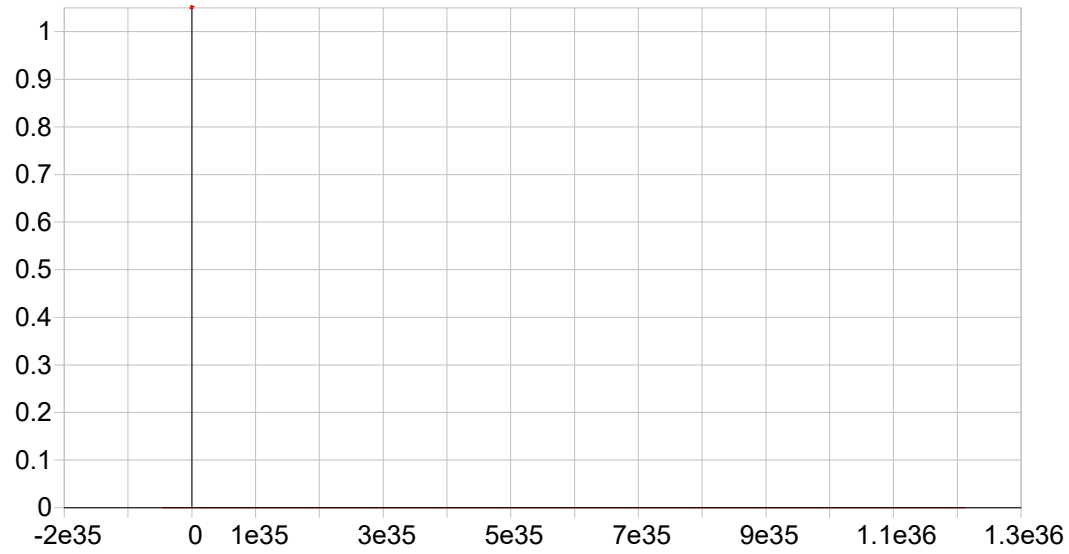
Date of Fit:	<not fit>	Type of Fit:	Linear	Weighting:	1/Conc

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

Reviewed By:kareem
On:12/13/2024 7:24:03 PM
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



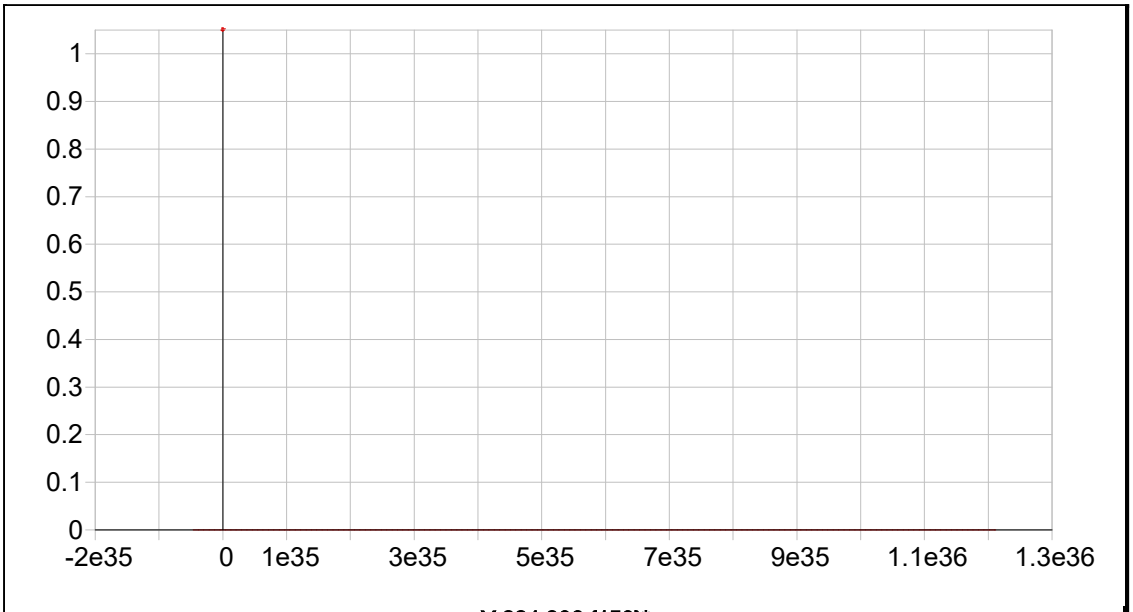
Y 371.030 { 91}*

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

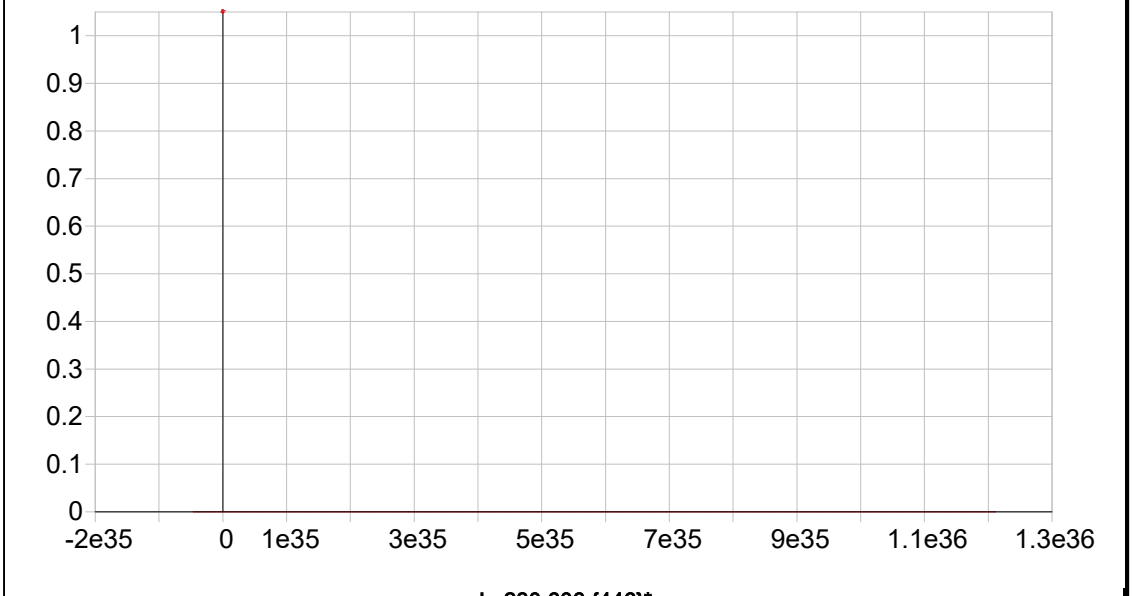
Reviewed By:kareem
On:12/13/2024 7:24:03 PM
Inst Id :P5



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



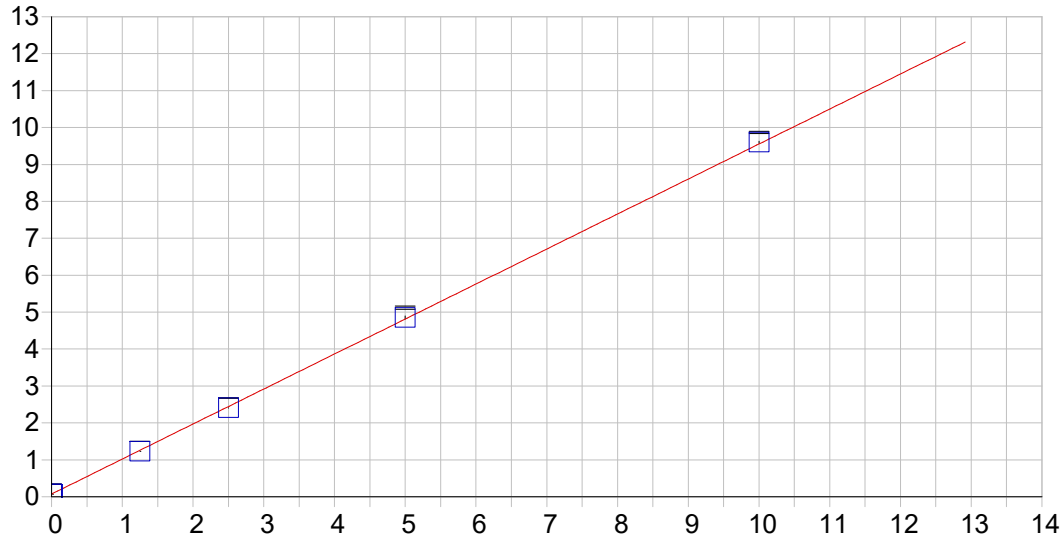
In 230.606 {446}*

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:kareem
On:12/13/2024 7:24:03 PM
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:	12/10/2024 16:20:59	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.074011	Re-Slope:	1.000000
A1 (Gain):	0.947867	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999335	Status:	OK.
Std Error of Est:	0.000710		
Predicted MDL:	0.004213		
Predicted MQL:	0.014042		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00002	.000	.000	.07403	.002	1
S5	10.000	10.050	.050	.495	9.5996	.030	1
S4	5.0000	5.0395	.039	.790	4.8508	.044	1
S3	2.5000	2.4592	-.041	-1.63	2.4050	.006	1
S2	1.2500	1.2203	-.030	-2.38	1.2307	.003	1
S1	.01500	-.00358	-.019	-124.	.07062	.003	1

Reviewed By:kareem
On:12/13/2024 7:24:03 PM
Inst Id :P5

Sample Name: S0 Acquired: 12/10/2024 15:54:09 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6) 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	.48326	-.00019	.00047	-.00021	.00020	-.00038	.06088	.00266
Stddev	.48277	.00012	.00024	.00028	.00037	.00120	.00124	.00106
%RSD	99.900	64.400	49.878	130.58	187.84	318.94	2.0368	39.736
#1	.38681	-.00021	.00071	-.00048	.00061	.00062	.05993	.00380
#2	.05599	-.00029	.00048	.00007	.00009	-.00171	.06229	.00244
#3	1.0070	-.00006	.00023	-.00023	-.00011	-.00004	.06043	.00172

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	.00013	.00347	.00041	-.00017	.00146	-.00002	-.00019	-.00031
Stddev	.00004	.00211	.00005	.00005	.00053	.00029	.00035	.00033
%RSD	29.144	60.717	12.041	32.963	36.015	1320.0	179.14	106.80
#1	.00010	.00527	.00044	-.00014	.00200	-.00019	.00020	-.00024
#2	.00012	.00399	.00043	-.00013	.00144	.00031	-.00030	-.00066
#3	.00017	.00115	.00035	-.00023	.00095	-.00019	-.00047	-.00002

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	.00009	.00090	.00240	.00008	-.00067	.04109	-.00401	.00432
Stddev	.00026	.00046	.00347	.00115	.00037	.00357	.00011	.00056
%RSD	302.14	50.599	144.62	1459.4	55.189	8.6945	2.6506	13.011
#1	.00036	.00132	-.00155	-.00055	-.00088	.04230	-.00392	.00368
#2	-.00015	.00098	.00493	-.00062	-.00024	.03707	-.00397	.00472
#3	.00005	.00041	.00382	.00140	-.00089	.04390	-.00413	.00457

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	.00123	.00039	.02788	.00150	-.00129	-.00286	.07403
Stddev	.00019	.00008	.00068	.00006	.00111	.00129	.00194
%RSD	15.534	20.405	2.4366	3.6675	85.967	45.259	2.6201
#1	.00131	.00031	.02713	.00152	-.00255	-.00429	.07305
#2	.00101	.00047	.02846	.00155	-.00045	-.00176	.07626
#3	.00137	.00039	.02805	.00144	-.00087	-.00253	.07277

Reviewed By:kareem
On:12/13/2024 7:24:03 PM
Inst Id :P5

Sample Name: S0 Acquired: 12/10/2024 15:54:09 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6) 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	2501.2	27528.	2637.3	1949.0	3933.2
Stddev	5.6	17.	19.6	5.3	9.5
%RSD	.22584	.06235	.74159	.27279	.24266
#1	2496.9	27508.	2618.9	1953.3	3922.4
#2	2507.6	27536.	2635.0	1950.7	3940.4
#3	2499.0	27539.	2657.9	1943.1	3936.9

Reviewed By:kareem
On:12/13/2024 7:24:03 PM
Inst Id :P5

Sample Name: S1 Acquired: 12/10/2024 15:58:14 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6) 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	2.5670	.00191	.00210	.00226	.00916	.02041	.75072	.06379
Stddev	.1280	.00017	.00063	.00039	.00015	.00122	.00372	.00063
%RSD	4.9858	8.6499	30.037	17.181	1.6841	5.9959	.49558	.99493
#1	2.4793	.00184	.00160	.00271	.00902	.02031	.75343	.06448
#2	2.5077	.00210	.00281	.00202	.00933	.02168	.74648	.06365
#3	2.7138	.00179	.00189	.00205	.00913	.01924	.75225	.06323

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	.01439	.25520	.00361	.04107	.00536	.00239	.00649	.04153
Stddev	.00027	.00157	.00014	.00027	.00083	.00071	.00023	.00040
%RSD	1.8423	.61360	3.8699	.66256	15.416	29.757	3.5387	.96761
#1	.01413	.25359	.00377	.04110	.00575	.00278	.00673	.04199
#2	.01439	.25529	.00351	.04078	.00592	.00157	.00645	.04127
#3	.01466	.25672	.00354	.04132	.00441	.00282	.00628	.04132

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	.01904	.00372	.03750	.00588	.00403	.13282	-.00358	.00308
Stddev	.00019	.00028	.00072	.00036	.00035	.00192	.00007	.00099
%RSD	1.0178	7.4286	1.9223	6.1928	8.7031	1.4425	2.0718	32.208
#1	.01926	.00400	.03793	.00593	.00443	.13153	-.00350	.00370
#2	.01894	.00344	.03667	.00622	.00391	.13191	-.00359	.00194
#3	.01892	.00373	.03790	.00549	.00376	.13502	-.00365	.00360

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	.01259	.00365	.51014	.00229	.03761	.85911	.07062
Stddev	.00010	.00009	.00508	.00002	.00105	.00190	.00269
%RSD	.75885	2.4433	.99499	1.0777	2.8035	.22084	3.8144
#1	.01260	.00355	.51113	.00228	.03858	.85694	.07035
#2	.01267	.00373	.51465	.00232	.03649	.85993	.07343
#3	.01248	.00367	.50465	.00227	.03774	.86046	.06806

Reviewed By:kareem
On:12/13/2024 7:24:03 PM
Inst Id :P5

Sample Name: S1 Acquired: 12/10/2024 15:58:14 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6) 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	2509.7	27575.	2653.6	1962.1	3927.2
Stddev	.9	123.	7.4	4.7	1.0
%RSD	.03740	.44685	.27852	.23940	.02493
#1	2509.9	27674.	2661.1	1964.0	3928.3
#2	2508.7	27614.	2646.3	1956.7	3926.3
#3	2510.5	27437.	2653.4	1965.5	3927.1

Reviewed By:kareem
On:12/13/2024 7:24:03 PM
Inst Id :P5

Sample Name: S2 Acquired: 12/10/2024 16:02:21 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6) 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	254.56	.10834	1.1255	.08133	.19664	3.7537	8.4622	1.4766
Stddev	.08	.00031	.0030	.00019	.00048	.0149	.0195	.0069
%RSD	.03026	.28234	.26404	.23935	.24642	.39689	.23027	.46815
#1	254.56	.10820	1.1265	.08116	.19652	3.7697	8.4832	1.4707
#2	254.49	.10813	1.1221	.08154	.19623	3.7402	8.4586	1.4749
#3	254.64	.10869	1.1278	.08129	.19717	3.7512	8.4447	1.4842

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	1.8941	3.1300	1.2491	.51786	.53716	.74488	1.5729	.53720
Stddev	.0041	.0111	.0024	.00121	.00113	.00030	.0062	.00204
%RSD	.21689	.35552	.18824	.23459	.21024	.04029	.39649	.38050
#1	1.8978	3.1420	1.2518	.51869	.53774	.74490	1.5795	.53941
#2	1.8897	3.1281	1.2478	.51647	.53586	.74517	1.5671	.53538
#3	1.8949	3.1200	1.2476	.51843	.53788	.74457	1.5722	.53680

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	.30037	.08900	.26274	.06621	.28913	.74026	.06178	.88169
Stddev	.00071	.00019	.00173	.00117	.00279	.00153	.00019	.00504
%RSD	.23769	.20995	.65934	1.7672	.96480	.20698	.30830	.57178
#1	.30078	.08879	.26191	.06489	.28910	.73919	.06199	.88025
#2	.29955	.08910	.26157	.06662	.29193	.74201	.06163	.87753
#3	.30079	.08912	.26473	.06712	.28635	.73956	.06171	.88730

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	1.4526	.04474	2.7145	.14719	.47822	10.490	1.2307
Stddev	.0016	.00012	.0042	.00060	.00152	.016	.0034
%RSD	.11095	.26988	.15405	.40519	.31731	.15324	.27959
#1	1.4533	.04470	2.7122	.14735	.47700	10.506	1.2335
#2	1.4508	.04464	2.7119	.14653	.47992	10.474	1.2317
#3	1.4538	.04487	2.7193	.14769	.47774	10.490	1.2269

Reviewed By:kareem
On:12/13/2024 7:24:03 PM
Inst Id :P5

Sample Name: S2 Acquired: 12/10/2024 16:02:21 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6) 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	2429.4	26726.	2665.3	1876.0	3609.8
Stddev	4.7	185.	5.8	12.9	11.1
%RSD	.19324	.69151	.21680	.68746	.30805
#1	2428.5	26627.	2668.1	1875.5	3604.0
#2	2434.5	26612.	2658.7	1863.4	3622.6
#3	2425.3	26939.	2669.2	1889.2	3602.7

Reviewed By:kareem
On:12/13/2024 7:24:03 PM
Inst Id :P5

Sample Name: S3 Acquired: 12/10/2024 16:06:12 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6) 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	489.60	.21402	2.2442	.16236	.39485	7.4705	16.826	2.8922
Stddev	1.23	.00182	.0128	.00045	.00171	.0039	.023	.0127
%RSD	.25036	.84884	.56973	.27960	.43185	.05222	.13471	.43786
#1	488.46	.21367	2.2373	.16229	.39417	7.4697	16.852	2.8860
#2	489.44	.21241	2.2363	.16195	.39358	7.4670	16.816	2.9068
#3	490.90	.21599	2.2589	.16285	.39678	7.4747	16.810	2.8839

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	3.7702	6.1864	2.4557	1.0218	1.0618	1.4714	3.1050	1.0658
Stddev	.0215	.0116	.0047	.0058	.0033	.0022	.0165	.0033
%RSD	.56904	.18671	.19022	.56656	.31054	.14865	.53063	.31310
#1	3.7599	6.1996	2.4513	1.0194	1.0652	1.4712	3.1193	1.0696
#2	3.7558	6.1780	2.4553	1.0177	1.0586	1.4736	3.1087	1.0635
#3	3.7948	6.1817	2.4606	1.0285	1.0616	1.4693	3.0870	1.0641

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	.59759	.17691	.51841	.13088	.58801	1.4447	.12951	1.7306
Stddev	.00320	.00035	.00073	.00078	.00369	.0012	.00071	.0073
%RSD	.53621	.19932	.14074	.59814	.62743	.08604	.55161	.42384
#1	.59640	.17650	.51908	.13097	.59190	1.4434	.12947	1.7280
#2	.59515	.17709	.51763	.13162	.58456	1.4459	.12882	1.7389
#3	.60122	.17714	.51852	.13006	.58758	1.4449	.13025	1.7250

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	2.9103	.09073	5.2355	.29499	.95428	20.971	2.4050
Stddev	.0136	.00063	.0236	.00222	.00638	.071	.0062
%RSD	.46715	.69329	.45143	.75379	.66845	.33931	.25911
#1	2.9058	.09068	5.2162	.29389	.95926	21.051	2.4115
#2	2.8994	.09012	5.2618	.29352	.95650	20.916	2.3991
#3	2.9255	.09137	5.2284	.29754	.94709	20.944	2.4046

Reviewed By:kareem
On:12/13/2024 7:24:03 PM
Inst Id :P5

Sample Name: S3 Acquired: 12/10/2024 16:06:12 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6) 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	2318.5	25853.	2623.8	1790.1	3419.0
Stddev	7.4	115.	2.2	5.1	11.9
%RSD	.31714	.44456	.08393	.28644	.34923
#1	2313.6	25829.	2626.3	1789.0	3413.6
#2	2327.0	25978.	2623.0	1795.7	3432.6
#3	2315.0	25752.	2622.1	1785.7	3410.6

Reviewed By:kareem
On:12/13/2024 7:24:03 PM
Inst Id :P5

Sample Name: S4 Acquired: 12/10/2024 16:09:58 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6) 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	944.72	.42181	4.5376	.32829	.81586	15.131	34.006	5.7813
Stddev	1.80	.00078	.0079	.00128	.00332	.123	.241	.0758
%RSD	.19009	.18552	.17397	.39109	.40704	.81339	.70942	1.3106
#1	944.22	.42100	4.5402	.32831	.81678	15.073	33.908	5.8105
#2	943.22	.42188	4.5288	.32699	.81218	15.048	33.829	5.6953
#3	946.71	.42256	4.5439	.32956	.81863	15.273	34.281	5.8381

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	7.5297	12.285	4.8339	2.0331	2.1206	2.9284	6.1376	2.1220
Stddev	.0122	.093	.0036	.0053	.0140	.0241	.0445	.0173
%RSD	.16215	.75744	.07469	.25818	.65818	.82304	.72550	.81736
#1	7.5269	12.217	4.8381	2.0333	2.1098	2.9152	6.0999	2.1102
#2	7.5192	12.246	4.8322	2.0278	2.1157	2.9138	6.1261	2.1138
#3	7.5431	12.391	4.8315	2.0383	2.1364	2.9562	6.1867	2.1419

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	1.1935	.35625	1.0364	.26471	1.2278	2.9167	.26882	3.4197
Stddev	.0027	.00077	.0039	.00143	.0081	.0201	.00022	.0405
%RSD	.23021	.21729	.37541	.53922	.66355	.68840	.08068	1.1836
#1	1.1920	.35712	1.0354	.26412	1.2205	2.9066	.26861	3.4295
#2	1.1919	.35601	1.0330	.26367	1.2366	2.9036	.26881	3.3752
#3	1.1967	.35563	1.0407	.26634	1.2263	2.9398	.26904	3.4544

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	6.0031	.18428	10.237	.59468	1.9103	42.080	4.8508
Stddev	.0228	.00050	.110	.00069	.0152	.278	.0442
%RSD	.37948	.27380	1.0782	.11587	.79550	.66176	.91153
#1	6.0066	.18408	10.269	.59472	1.8957	41.839	4.8250
#2	5.9788	.18391	10.114	.59397	1.9092	42.017	4.8255
#3	6.0240	.18486	10.328	.59535	1.9260	42.385	4.9018

Reviewed By:kareem
On:12/13/2024 7:24:03 PM
Inst Id :P5

Sample Name: S4 Acquired: 12/10/2024 16:09:58 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6) 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	2160.1	25097.	2564.8	1657.9	3226.8
Stddev	5.9	53.	25.0	2.4	3.0
%RSD	.27344	.20957	.97288	.14522	.09243
#1	2159.0	25136.	2561.9	1656.6	3228.1
#2	2166.5	25037.	2591.0	1656.4	3228.9
#3	2154.9	25118.	2541.4	1660.6	3223.4

Reviewed By:kareem
On:12/13/2024 7:24:03 PM
Inst Id :P5

Sample Name: S5 Acquired: 12/10/2024 16:13:43 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6) 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	1824.5	.82865	9.1294	.69817	1.7790	30.149	67.042	11.249
Stddev	4.4	.00349	.0383	.00366	.0097	.078	.218	.057
%RSD	.24207	.42158	.41963	.52426	.54637	.25954	.32471	.51089
#1	1819.6	.82569	9.1000	.69554	1.7715	30.064	66.792	11.297
#2	1828.2	.82776	9.1155	.69661	1.7754	30.165	67.141	11.185
#3	1825.7	.83250	9.1728	.70235	1.7900	30.218	67.193	11.265

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	14.988	23.958	9.4675	4.0571	4.1714	5.6766	11.979	4.1669
Stddev	.066	.041	.0072	.0180	.0049	.0114	.034	.0162
%RSD	.43785	.16921	.07595	.44320	.11775	.20046	.28573	.38795
#1	14.946	23.914	9.4617	4.0482	4.1714	5.6658	11.966	4.1572
#2	14.955	23.967	9.4755	4.0454	4.1664	5.6885	11.954	4.1580
#3	15.064	23.993	9.4653	4.0778	4.1762	5.6756	12.018	4.1856

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	2.3835	.72227	2.0549	.52046	2.6868	5.8193	.55551	6.5019
Stddev	.0089	.00114	.0081	.00239	.0125	.0124	.00299	.0278
%RSD	.37178	.15762	.39595	.45981	.46420	.21307	.53850	.42746
#1	2.3771	.72140	2.0455	.51920	2.6743	5.8050	.55315	6.5259
#2	2.3798	.72356	2.0587	.51895	2.6992	5.8257	.55450	6.4714
#3	2.3936	.72184	2.0604	.52322	2.6869	5.8271	.55888	6.5084

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	12.928	.38125	19.616	1.1936	3.7602	81.724	9.5996
Stddev	.077	.00110	.094	.0054	.0110	.747	.0304
%RSD	.59938	.28814	.47952	.45322	.29362	.91465	.31670
#1	12.870	.38067	19.703	1.1906	3.7488	80.861	9.5696
#2	12.898	.38056	19.516	1.1904	3.7610	82.178	9.5989
#3	13.016	.38252	19.629	1.1999	3.7708	82.133	9.6304

Reviewed By:kareem
On:12/13/2024 7:24:03 PM
Inst Id :P5

Sample Name: S5 Acquired: 12/10/2024 16:13:43 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6) 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	1917.4	23987.	2548.4	1454.2	3021.2
Stddev	7.9	79.	7.0	7.0	11.6
%RSD	.41027	.33048	.27597	.48294	.38335
#1	1919.9	24074.	2550.2	1460.7	3021.7
#2	1923.8	23918.	2554.4	1446.8	3032.5
#3	1908.6	23968.	2540.7	1455.1	3009.4

Reviewed By:kareem
On:12/13/2024 7:24:03 PM
Inst Id :P5

Sample Name: S6 Acquired: 12/10/2024 16:17:38 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6) 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	78.901	38.444	14.726	6.2187	5.5105
Stddev	.600	.275	.132	.0382	.0361
%RSD	.76102	.71542	.89793	.61446	.65461
#1	79.325	38.635	14.824	6.2443	5.5264
#2	79.164	38.569	14.779	6.2370	5.5360
#3	78.214	38.129	14.576	6.1748	5.4692

Int. Std.	Y_3710
Units	Cts/S
Avg	2542.7
Stddev	25.0
%RSD	.98291
#1	2519.0
#2	2540.2
#3	2568.8

Reviewed By:kareem
On:12/13/2024 7:24:03 PM
Inst Id :P5

Sample Name: ICV014 Acquired: 12/10/2024 16:45:51 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICV014 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.038133	.9821663	.9687233	.9324097	.9126922	2.427014
Stddev	.003284	.0023432	.0045070	.0012098	.0034750	.018037
%RSD	.3163694	.2385762	.4652488	.1297539	.3807459	.7431855
#1	1.039430	.9848588	.9739237	.9331766	.9166857	2.440929
#2	1.040570	.9810507	.9659509	.9310150	.9103560	2.406636
#3	1.034398	.9805892	.9662952	.9330375	.9110350	2.433478

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5185802	.5224039	.4768094	10.23094	.5496085	.5007285
Stddev	.0058810	.0066120	.0012909	.15363	.0016435	.0021732
%RSD	1.134059	1.265693	.2707446	1.501665	.2990242	.4340026
#1	.5238998	.5298136	.4782849	10.37058	.5511777	.5032208
#2	.5195760	.5202931	.4762546	10.25588	.5478997	.4992289
#3	.5122649	.5171050	.4758886	10.06637	.5497482	.4997360

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4977854	10.55741	.5266008	6.041075	.5100435	.2462849
Stddev	.0095474	.10428	.0038743	.030635	.0025162	.0009478
%RSD	1.917968	.9877732	.7357243	.5071099	.4933254	.3848486
#1	.5063483	10.64908	.5308768	6.063743	.5128012	.2473081
#2	.4874907	10.57920	.5256019	6.053260	.5094570	.2454368
#3	.4995171	10.44395	.5233238	6.006222	.5078724	.2461099

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	10.08662	.5069642	1.096831	9.429420	F -.002359	F -.032586
Stddev	.21868	.0050430	.007212	.422215	.003502	.003140
%RSD	2.168017	.9947489	.6575075	4.477633	148.4288	9.636940
#1	10.32729	.5104400	1.101781	9.662287	-.003575	-.034815
#2	10.03248	.5092724	1.088556	9.683924	-.005092	-.028994
#3	9.90010	.5011801	1.100155	8.942048	.001589	-.033948

Reviewed By:kareem
On:12/13/2024 7:24:03 PM
Inst Id :P5

Sample Name: ICV014 Acquired: 12/10/2024 16:45:51 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICV014 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F -.001069	F .0074127	F .0013432	F -.000939	F -.000027	F -.008887
Stddev	.000175	.0018892	.0010893	.000678	.002017	.000126
%RSD	16.33394	25.48625	81.10183	72.20485	7465.555	1.414808
#1	-.001079	.0088792	.0016550	-.001691	-.002324	-.008741
#2	-.001238	.0080781	.0022425	-.000373	.001455	-.008964
#3	-.000890	.0052808	.0001319	-.000754	.000788	-.008955

Elem	Li6707
Units	ppm
Avg	F -.020373
Stddev	.002664
%RSD	13.07509
#1	-.021425
#2	-.017344
#3	-.022349

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2503.473	27477.17	2700.638	1949.679	3878.282
Stddev	8.473	90.58	32.112	3.045	14.101
%RSD	.3384453	.3296673	1.189054	.1562011	.3635926
#1	2495.289	27463.81	2666.152	1951.649	3863.485
#2	2512.208	27394.02	2706.083	1946.171	3891.565
#3	2502.923	27573.70	2729.679	1951.217	3879.797

Reviewed By:kareem
On:12/13/2024 7:24:03 PM
Inst Id :P5

Sample Name: ICB014 Acquired: 12/10/2024 16:51:34 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICB014 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.003241	.0020314	.0002477	.0024117	.0018835	-.000223
Stddev	.000633	.0009655	.0017467	.0014332	.0012952	.004033
%RSD	19.52907	47.52791	705.1504	59.42922	68.76438	1808.974
#1	-.002783	.0031231	-.000308	.0037043	.0004089	-.004538
#2	-.003963	.0012898	-.001154	.0008704	.0024045	.000417
#3	-.002977	.0016814	.002205	.0026603	.0028370	.003452

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0013678	.0000193	.0000879	.0315601	-.000789	.0002502
Stddev	.0005705	.0001003	.0001202	.0289310	.000210	.0000890
%RSD	41.71269	518.8848	136.6633	91.66958	26.65738	35.55627
#1	.0016396	.0000016	.0001057	.0621562	-.000884	.0001642
#2	.0007121	.0001273	-.000040	.0046469	-.000935	.0003419
#3	.0017515	-.000071	.000198	.0278773	-.000548	.0002446

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0045260	-.011721	-.000646	-.041575	-.000543	-.000931
Stddev	.0069477	.003501	.000286	.071860	.000488	.000539
%RSD	153.5059	29.86797	44.26562	172.8446	89.99307	57.86898
#1	.0124126	-.011515	-.000376	-.113639	-.000055	-.000598
#2	.0018565	-.015321	-.000946	.030079	-.001032	-.001553
#3	-.000691	-.008328	-.000617	-.041165	-.000541	-.000643

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.016806	-.003525	-.001431	-.192227	-.000198	-.002333
Stddev	.604295	.002094	.003271	.138058	.001506	.002204
%RSD	3595.704	59.40579	228.5216	71.82033	761.3906	94.49567
#1	.334283	-.002884	-.005076	-.044874	-.000964	-.004217
#2	.329880	-.005865	-.000466	-.318586	-.001167	.000091
#3	-.714581	-.001827	.001249	-.213221	.001538	-.002873

Reviewed By:kareem
On:12/13/2024 7:24:03 PM
Inst Id :P5

Sample Name: ICB014 Acquired: 12/10/2024 16:51:34 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICB014 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000676	-.000294	-.001849	F -.008014	.0031709	.0000491
Stddev	.000228	.002736	.000877	.000142	.0026107	.0000706
%RSD	33.76338	930.2102	47.45976	1.777056	82.33172	143.8092
#1	-.000918	.002141	-.001891	-.007879	.0002788	.0001303
#2	-.000644	.000231	-.002704	-.007999	.0053533	.0000150
#3	-.000465	-.003255	-.000951	-.008163	.0038807	.0000020

Elem	Li6707
Units	ppm
Avg	F -.024117
Stddev	.003376
%RSD	13.99680
#1	-.020908
#2	-.027637
#3	-.023805

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2501.749	27688.72	2662.750	1960.673	3920.342
Stddev	4.228	292.82	23.298	21.041	8.536
%RSD	.1690122	1.057560	.8749723	1.073135	.2177482
#1	2506.097	27659.44	2635.934	1960.227	3928.756
#2	2501.499	27411.63	2674.285	1939.858	3911.688
#3	2497.651	27995.08	2678.030	1981.932	3920.582

Reviewed By:kareem
On:12/13/2024 7:24:03 PM
Inst Id :P5

Sample Name: ICSA014 Acquired: 12/10/2024 17:21:53 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICSA014 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.009316	.0076976	-.009899	-.016151	-.006777	243.0741
Stddev	.003449	.0012353	.002492	.004140	.002821	.8857
%RSD	37.02249	16.04818	25.16986	25.63269	41.62276	.3643856
#1	-.011812	.0063986	-.011192	-.018481	-.004179	242.5953
#2	-.005380	.0078368	-.007027	-.011371	-.009777	242.5309
#3	-.010755	.0088575	-.011478	-.018600	-.006376	244.0962

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0073104	.0013640	.0008535	248.9195	.0521792	.0315269
Stddev	.0012721	.0000257	.0001104	1.0867	.0006842	.0007397
%RSD	17.40106	1.880227	12.93146	.4365838	1.311195	2.346152
#1	.0058416	.0013426	.0009203	248.3768	.0513991	.0307627
#2	.0080531	.0013571	.0007261	248.2110	.0524612	.0315786
#3	.0080366	.0013924	.0009142	250.1707	.0526773	.0322393

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.007006	102.7715	.0101976	254.7028	.0051102	-.007578
Stddev	.001301	.2110	.0003556	.8693	.0009110	.001531
%RSD	18.57211	.2052721	3.486808	.3412996	17.82628	20.19669
#1	-.008457	102.7065	.0098677	253.9026	.0048110	-.008383
#2	-.005945	102.6006	.0105743	254.5780	.0043865	-.008538
#3	-.006615	103.0073	.0101509	255.6277	.0061331	-.005813

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.050593	.0004836	-.036147	-.287852	.0016573	F -.315832
Stddev	.719102	.0103535	.003477	.185939	.0011819	.002925
%RSD	1421.348	2141.135	9.617872	64.59545	71.31401	.9262440
#1	.426291	.0055576	-.040154	-.352057	.0030209	-.318752
#2	-.877715	-.011428	-.034344	-.433180	.0010258	-.312901
#3	.299645	.007321	-.033942	-.078319	.0009254	-.315843

Reviewed By:kareem
On:12/13/2024 7:24:03 PM
Inst Id :P5

Sample Name: ICSA014 Acquired: 12/10/2024 17:21:53 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICSA014 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.001618	.0119570	-.003369	F .0089128	-.000210	.0043013
Stddev	.000511	.0020568	.000647	.0006501	.001872	.0007235
%RSD	31.59322	17.20135	19.19310	7.294546	893.0594	16.82058
#1	-.002053	.0140509	-.003276	.0095751	.001284	.0039491
#2	-.001747	.0118807	-.004058	.0082755	.000397	.0038214
#3	-.001055	.0099395	-.002774	.0088880	-.002309	.0051335

Elem	Li6707
Units	ppm
Avg	F -.016973
Stddev	.002948
%RSD	17.36849
#1	-.015819
#2	-.014776
#3	-.020323

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2375.929	25459.86	2607.909	1840.195	3392.310
Stddev	6.242	138.51	19.170	9.240	12.531
%RSD	.2627059	.5440241	.7350772	.5020954	.3694004
#1	2377.524	25476.80	2596.429	1842.839	3394.255
#2	2381.219	25313.66	2630.040	1829.921	3403.756
#3	2369.045	25589.12	2597.259	1847.824	3378.920

Reviewed By:kareem
On:12/13/2024 7:24:03 PM
Inst Id :P5

Sample Name: ICSAB014 Acquired: 12/10/2024 17:27:39 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICSAB014 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0891728	.1087786	.0423905	.0265995	.5579911	249.8614
Stddev	.0067044	.0010827	.0012290	.0097367	.0022440	1.7789
%RSD	7.518399	.9953717	2.899192	36.60468	.4021630	.7119633
#1	.0877906	.1075284	.0422049	.0154523	.5592903	250.6155
#2	.0832672	.1094143	.0437017	.0334410	.5553999	251.1390
#3	.0964605	.1093931	.0412648	.0309052	.5592831	247.8296

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5452643	.5455295	1.006569	256.5595	.6214702	.5421223
Stddev	.0049155	.0034723	.001172	1.6677	.0021124	.0008119
%RSD	.9014851	.6365099	.1163851	.6500155	.3399078	.1497692
#1	.5466557	.5490588	1.007736	257.7763	.6217123	.5427626
#2	.5493341	.5454128	1.006577	257.2437	.6192472	.5412091
#3	.5398031	.5421171	1.005393	254.6586	.6234512	.5423953

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4862811	105.4551	.5456926	263.6768	1.077633	.1879370
Stddev	.0019497	.6025	.0043311	1.6630	.003101	.0008020
%RSD	.4009344	.5713349	.7936939	.6306788	.2877647	.4267580
#1	.4841677	105.8760	.5493320	265.2499	1.081047	.1887921
#2	.4880096	105.7243	.5468434	263.8438	1.076864	.1878175
#3	.4866659	104.7649	.5409022	261.9366	1.074989	.1872014

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.093579	.5298564	1.051819	-.602558	.0039692	F -.331678
Stddev	.007023	.0056390	.008499	.138229	.0035359	.003578
%RSD	7.504433	1.064243	.8080560	22.94032	89.08212	1.078629
#1	-.099572	.5360212	1.061352	-.492280	.0000736	-.334358
#2	-.085852	.5285888	1.049075	-.757628	.0069756	-.333062
#3	-.095313	.5249591	1.045031	-.557766	.0048586	-.327616

Reviewed By:kareem
On:12/13/2024 7:24:03 PM
Inst Id :P5

Sample Name: ICSAB014 Acquired: 12/10/2024 17:27:39 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICSAB014 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.001313	.0239760	-.003112	.0036819	-.000539	.0053830
Stddev	.000361	.0070270	.000627	.0022167	.000950	.0001514
%RSD	27.52287	29.30848	20.15251	60.20648	176.1873	2.812137
#1	-.001089	.0276575	-.002651	.0051198	-.000095	.0053309
#2	-.001729	.0283975	-.003826	.0047969	.000107	.0055536
#3	-.001120	.0158732	-.002858	.0011290	-.001631	.0052646

Elem	Li6707
Units	ppm
Avg	F -.026064
Stddev	.001522
%RSD	5.840480
#1	-.027769
#2	-.025584
#3	-.024840

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2369.146	25424.04	2633.137	1830.951	3388.944
Stddev	4.628	94.91	24.592	10.345	10.549
%RSD	.1953609	.3733066	.9339431	.5650087	.3112649
#1	2367.599	25343.40	2613.974	1824.406	3380.424
#2	2365.490	25400.09	2624.570	1825.569	3385.665
#3	2374.350	25528.63	2660.867	1842.877	3400.742

Reviewed By:kareem
On:12/13/2024 7:24:03 PM
Inst Id :P5

Sample Name: CCV089 Acquired: 12/10/2024 17:48:20 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV089 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.991993	4.977525	25.34109	4.866938	4.910743	408.5371
Stddev	.026604	.014577	.11977	.021693	.022669	.6877
%RSD	.5329291	.2928587	.4726404	.4457152	.4616207	.1683439
#1	5.009469	4.976587	25.33609	4.856169	4.908401	409.0718
#2	4.961376	4.963440	25.22389	4.852738	4.889336	408.7782
#3	5.005135	4.992549	25.46328	4.891909	4.934493	407.7612

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	10.37154	.5133734	2.549659	414.0573	15.83214	2.559715
Stddev	.02294	.0022107	.011833	.6444	.00855	.013648
%RSD	.2212014	.4306144	.4641113	.1556227	.0540188	.5331948
#1	10.39374	.5150288	2.547661	414.7970	15.82783	2.558332
#2	10.37296	.5142286	2.538952	413.7565	15.82660	2.546810
#3	10.34793	.5108629	2.562364	413.6183	15.84199	2.574002

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	15.31721	417.3631	15.23792	418.6660	2.563457	1.275541
Stddev	.04715	.1071	.05449	1.5947	.011859	.002021
%RSD	.3078058	.0256521	.3575927	.3809035	.4626150	.1584532
#1	15.37163	417.2907	15.29868	420.5049	2.564398	1.276291
#2	15.28870	417.4861	15.22172	417.6624	2.551155	1.273252
#3	15.29130	417.3125	15.19338	417.8308	2.574817	1.277080

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	408.5916	2.554473	14.81280	156.0263	5.086167	F 4.226022
Stddev	1.1883	.011428	.12595	.3582	.014121	.023726
%RSD	.2908174	.4473669	.8502770	.2295867	.2776317	.5614330
#1	409.8295	2.557102	14.71816	156.2850	5.089795	4.239805
#2	407.4601	2.541959	14.76450	156.1765	5.070585	4.239636
#3	408.4854	2.564357	14.95576	155.6174	5.098119	4.198626

Reviewed By:kareem
On:12/13/2024 7:24:03 PM
Inst Id :P5

Sample Name: CCV089 Acquired: 12/10/2024 17:48:20 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV089 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.894306	5.124721	5.026223	5.125622	5.109005	4.953363
Stddev	.022312	.022990	.027103	.026836	.031662	.016681
%RSD	.4558737	.4486075	.5392328	.5235562	.6197334	.3367529
#1	4.891604	5.128011	5.052912	5.121586	5.145476	4.971744
#2	4.873467	5.100264	5.027031	5.101033	5.088563	4.949157
#3	4.917845	5.145890	4.998724	5.154247	5.092975	4.939188

Elem	Li6707
Units	ppm
Avg	5.144013
Stddev	.010066
%RSD	.1956768
#1	5.146953
#2	5.152282
#3	5.132805

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2096.438	24130.05	2572.861	1607.681	3084.730
Stddev	5.036	54.17	7.733	5.502	8.610
%RSD	.2402341	.2244934	.3005530	.3422302	.2791210
#1	2097.682	24190.52	2567.616	1613.500	3087.687
#2	2100.736	24113.65	2569.226	1606.979	3091.472
#3	2090.896	24085.97	2581.742	1602.564	3075.031

Reviewed By:kareem
On:12/13/2024 7:24:03 PM
Inst Id :P5

Sample Name: CCB089 Acquired: 12/10/2024 17:52:04 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB089 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.001876	.0011680	-.000496	.0075643	.0014785	.1281478
Stddev	.000596	.0013684	.001029	.0013682	.0021895	.0102046
%RSD	31.76451	117.1628	207.3751	18.08823	148.0887	7.963108
#1	-.002241	.0024866	.000611	.0086013	.0034289	.1194935
#2	-.002199	.0012626	-.001422	.0080781	-.000890	.1255497
#3	-.001189	-.000245	-.000678	.0060135	.001896	.1394003

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0006440	-.000041	.0001051	.0344954	-.000462	-.000044
Stddev	.0011869	.000007	.0000298	.0330769	.000445	.000346
%RSD	184.3157	16.08311	28.33003	95.88787	96.26976	780.2851
#1	-.000016	-.000037	.0001084	-.000015	-.000909	-.000414
#2	.002014	-.000037	.0000738	.065923	-.000459	.000270
#3	-.000066	-.000049	.0001331	.037579	-.000019	.000011

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0148986	.0212159	.0016826	.0081215	-.000212	.0012962
Stddev	.0004585	.0442502	.0015387	.0477296	.000141	.0009381
%RSD	3.077181	208.5703	91.44977	587.6961	66.39710	72.37855
#1	.0147313	-.028564	.0012678	.0218834	-.000215	.0010166
#2	.0145473	.056082	.0003938	.0474581	-.000352	.0023423
#3	.0154172	.036131	.0033861	-.044977	-.000070	.0005296

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1500822	-.000528	.0045388	.0101803	-.000088	.0090417
Stddev	.4824192	.011110	.0071969	.0685011	.000732	.0003024
%RSD	321.4367	2102.754	158.5647	672.8780	828.3142	3.344104
#1	.5282789	-.007628	-.003561	-.027028	-.000425	.0090425
#2	.3151782	-.006232	.006979	-.031665	-.000591	.0093437
#3	-.393211	.012274	.010199	.089233	.000751	.0087389

Reviewed By:kareem
On:12/13/2024 7:24:03 PM
Inst Id :P5

Sample Name: CCB089 Acquired: 12/10/2024 17:52:04 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB089 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000430	-.005065	-.000315	F -.010061	.0024069	.0005013
Stddev	.000411	.000892	.000528	.000663	.0017968	.0001766
%RSD	95.59016	17.60920	167.7286	6.586545	74.65220	35.22525
#1	-.000414	-.004358	-.000063	-.010304	.0013342	.0005624
#2	-.000849	-.006067	-.000921	-.010568	.0014053	.0003023
#3	-.000027	-.004769	.000040	-.009311	.0044813	.0006392

Elem	Li6707
Units	ppm
Avg	-.012063
Stddev	.001306
%RSD	10.82358
#1	-.012340
#2	-.013208
#3	-.010641

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2492.338	27540.93	2653.489	1948.224	3902.794
Stddev	5.289	90.95	11.207	11.329	12.610
%RSD	.2122107	.3302512	.4223583	.5815167	.3230959
#1	2486.469	27436.25	2649.511	1935.153	3888.277
#2	2496.735	27585.90	2644.813	1955.220	3909.070
#3	2493.810	27600.64	2666.142	1954.299	3911.033

Reviewed By:kareem
On:12/13/2024 7:24:03 PM
Inst Id :P5

Sample Name: PB165364BL Acquired: 12/10/2024 17:56:11 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: PBS364 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.002282	.0011688	-.001368	.0034675	.0012701	-.014200
Stddev	.001178	.0021536	.001440	.0032092	.0024412	.024124
%RSD	51.63063	184.2509	105.2834	92.55255	192.1987	169.8851
#1	-.001092	.0033931	-.001472	-.000238	.0038592	-.020082
#2	-.003449	-.000906	-.002754	.005284	.0009408	-.034840
#3	-.002306	.001020	.000121	.005357	-.000990	.012321

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002252	-.000053	.0000491	-.004716	-.000894	.0000845
Stddev	.0009271	.000127	.0000451	.035547	.000443	.0002964
%RSD	411.6797	239.3480	91.71720	753.8192	49.56872	350.9064
#1	-.000682	-.000199	.0000502	.035815	-.001000	-.000086
#2	.001171	.000012	.0000937	-.019364	-.000407	.000427
#3	.000187	.000028	.0000035	-.030598	-.001274	-.000088

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.002356	.0369219	.0008714	-.104887	.0001321	-.000511
Stddev	.005100	.0295119	.0007710	.056998	.0006330	.001252
%RSD	216.4920	79.93058	88.48255	54.34208	479.1607	244.8343
#1	-.007556	.0141646	.0014722	-.042880	-.000582	.000594
#2	.002639	.0263340	.0000020	-.154998	.000623	-.000258
#3	-.002151	.0702671	.0011400	-.116782	.000356	-.001871

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.152182	.0101984	-.004549	-.205403	-.000021	.0031030
Stddev	.670882	.0026232	.002497	.120645	.003215	.0008571
%RSD	440.8408	25.72200	54.89227	58.73580	15269.95	27.62070
#1	.407482	.0083635	-.005136	-.109416	.003628	.0025147
#2	.031843	.0090287	-.006700	-.165960	-.002438	.0040863
#3	-.895872	.0132030	-.001811	-.340833	-.001254	.0027079

Reviewed By:kareem
On:12/13/2024 7:24:03 PM
Inst Id :P5

Sample Name: PB165364BL Acquired: 12/10/2024 17:56:11 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: PBS364 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000597	-.005492	-.000774	F -.011151	.0055051	-.000172
Stddev	.000208	.001950	.000581	.000769	.0039116	.000102
%RSD	34.91264	35.51499	74.97986	6.894168	71.05440	58.92804
#1	-.000619	-.007455	-.001398	-.011074	.0069994	-.000097
#2	-.000793	-.003554	-.000676	-.011956	.0010666	-.000288
#3	-.000378	-.005465	-.000250	-.010424	.0084492	-.000132

Elem	Li6707
Units	ppm
Avg	F -.028936
Stddev	.003091
%RSD	10.68193
#1	-.031788
#2	-.029367
#3	-.025651

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2491.912	27969.30	2648.790	1974.589	3907.403
Stddev	6.496	163.78	9.040	16.089	12.902
%RSD	.2607002	.5855805	.3413026	.8148132	.3301865
#1	2495.368	27869.98	2659.073	1959.424	3920.400
#2	2484.418	27879.58	2645.202	1972.878	3894.599
#3	2495.949	28158.34	2642.094	1991.465	3907.208

Reviewed By:kareem
On:12/13/2024 7:24:03 PM
Inst Id :P5

Sample Name: PB165351BL Acquired: 12/10/2024 18:04:22 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: PBS351 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000955	.0016947	.0001522	.0084685	.0016027	.0190964
Stddev	.000878	.0022935	.0012219	.0011783	.0006423	.0216212
%RSD	91.92039	135.3376	802.8487	13.91328	40.07817	113.2211
#1	-.000994	.0007742	.0015394	.0071090	.0010384	.0175347
#2	-.001813	.0000044	-.000765	.0091025	.0023017	.0414561
#3	-.000058	.0043055	-.000318	.0091940	.0014680	-.001702

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0006454	-.000023	.0000150	.0208534	-.001009	.0001633
Stddev	.0008413	.000070	.0000366	.0219433	.000361	.0001840
%RSD	130.3596	304.5415	243.7628	105.2263	35.78412	112.7195
#1	-.000316	.000020	.0000573	.0417489	-.001388	.0002782
#2	.001246	-.000104	-.000006	.0228170	-.000969	.0002606
#3	.001006	.000015	-.000006	-.002006	-.000669	-.000049

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0017960	.0084394	.0005919	-.093523	-.000722	.0001757
Stddev	.0026163	.0090155	.0009738	.066089	.000488	.0005393
%RSD	145.6787	106.8267	164.5372	70.66629	67.60812	307.0196
#1	-.000271	-.001832	.0000445	-.162441	-.000174	.0007698
#2	.000922	.012107	.0017162	-.087445	-.001110	-.000283
#3	.004737	.015043	.0000149	-.030683	-.000882	.000040

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1355961	.0016909	-.000355	-.243204	-.001316	-.000647
Stddev	.7739738	.0079338	.002893	.174543	.000305	.001816
%RSD	570.7936	469.1979	814.2156	71.76808	23.17813	280.6754
#1	-.022330	.0020530	.002682	-.228092	-.001037	-.000150
#2	.976353	-.006418	-.003079	-.076708	-.001269	-.002660
#3	-.547235	.009438	-.000669	-.424811	-.001642	.000869

Reviewed By:kareem
On:12/13/2024 7:24:03 PM
Inst Id :P5

Sample Name: PB165351BL Acquired: 12/10/2024 18:04:22 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: PBS351 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000749	-.002116	-.000915	F -.010793	.0039613	-.000047
Stddev	.000220	.001477	.000161	.000749	.0039275	.000091
%RSD	29.40945	69.79352	17.54871	6.940391	99.14677	195.2248
#1	-.000965	-.001338	-.001077	-.010844	.0083476	-.000036
#2	-.000756	-.003819	-.000756	-.010019	.0027654	-.000142
#3	-.000525	-.001191	-.000912	-.011515	.0007707	.000038

Elem	Li6707
Units	ppm
Avg	F -.039209
Stddev	.004555
%RSD	11.61764
#1	-.043110
#2	-.040314
#3	-.034203

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2514.464	27794.45	2685.244	1967.978	3924.405
Stddev	1.358	68.50	14.786	10.889	2.716
%RSD	.0539909	.2464408	.5506477	.5533327	.0692141
#1	2513.629	27721.37	2700.804	1955.443	3922.076
#2	2516.030	27804.80	2671.378	1973.398	3923.752
#3	2513.733	27857.18	2683.551	1975.095	3927.389

Reviewed By:kareem
On:12/13/2024 7:24:03 PM
Inst Id :P5

Sample Name: PB165364BS Acquired: 12/10/2024 18:09:57 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: LCS364 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0218092	.0501499	.0168783	.0646998	.1060886	.4137468
Stddev	.0033094	.0005867	.0011623	.0029418	.0008854	.0262463
%RSD	15.17415	1.169948	6.886599	4.546774	.8346200	6.343576
#1	.0254436	.0497308	.0171129	.0654433	.1051337	.3965479
#2	.0189695	.0498985	.0179053	.0614577	.1068825	.4439568
#3	.0210147	.0508205	.0156165	.0671985	.1062496	.4007355

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4093234	.0103618	.0093700	10.22390	.0208632	.1002937
Stddev	.0024665	.0000884	.0000599	.03919	.0005266	.0003230
%RSD	.6025693	.8536094	.6388721	.3833481	2.524091	.3220006
#1	.4105440	.0102745	.0093462	10.21896	.0208304	.1005760
#2	.4064847	.0103597	.0094381	10.18741	.0203538	.1003635
#3	.4109415	.0104513	.0093257	10.26533	.0214055	.0999415

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0550138	.2193668	.0316028	10.14897	.0778661	.0188729
Stddev	.0044244	.0168486	.0015614	.02646	.0003908	.0002442
%RSD	8.042311	7.680543	4.940705	.2606893	.5018919	1.293688
#1	.0587329	.2024169	.0329311	10.17713	.0779452	.0190549
#2	.0501209	.2361121	.0298829	10.14516	.0782113	.0185954
#3	.0561876	.2195715	.0319944	10.12463	.0774418	.0189683

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	10.24193	.1025421	.1084216	9.775685	.0174045	F -.000890
Stddev	.16312	.0028401	.0075804	.093843	.0013003	.002326
%RSD	1.592717	2.769645	6.991631	.9599684	7.470963	261.2638
#1	10.11731	.1000702	.0996972	9.758308	.0187656	-.000716
#2	10.18191	.1019116	.1133977	9.877003	.0172729	.001344
#3	10.42656	.1056444	.1121698	9.691746	.0161750	-.003298

Reviewed By:kareem
On:12/13/2024 7:24:03 PM
Inst Id :P5

Sample Name: PB165364BS Acquired: 12/10/2024 18:09:57 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: LCS364 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0177020	.1749439	F .4706532	.0126482	.2026342	.2109831
Stddev	.0002406	.0005311	.0030757	.0003718	.0012433	.0002639
%RSD	1.359136	.3035613	.6534882	2.939563	.6135597	.1250705
#1	.0176900	.1745130	.4684243	.0130774	.2019728	.2112876
#2	.0179484	.1755372	.4693732	.0124241	.2040684	.2108397
#3	.0174677	.1747816	.4741622	.0124432	.2018615	.2108219

Elem	Li6707
Units	ppm
Avg	F -.006820
Stddev	.004276
%RSD	62.70046
#1	-.009947
#2	-.008567
#3	-.001947

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2514.042	27545.77	2694.050	1954.770	3898.074
Stddev	3.818	197.41	12.537	18.603	11.922
%RSD	.1518512	.7166540	.4653668	.9516599	.3058376
#1	2510.485	27573.02	2708.343	1960.741	3884.662
#2	2513.565	27336.15	2688.898	1933.915	3902.093
#3	2518.076	27728.13	2684.910	1969.654	3907.467

Reviewed By:kareem
On:12/13/2024 7:24:03 PM
Inst Id :P5

Sample Name: PB165351BS Acquired: 12/10/2024 18:13:58 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: LCS351 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0180158	.0478752	.0161490	.0641013	.1061401	.3915164
Stddev	.0022161	.0004967	.0017847	.0024542	.0014898	.0024781
%RSD	12.30088	1.037427	11.05142	3.828632	1.403576	.6329419
#1	.0183318	.0483982	.0140883	.0648185	.1044358	.3888815
#2	.0200570	.0478177	.0171706	.0613684	.1067899	.3938002
#3	.0156587	.0474098	.0171882	.0661170	.1071945	.3918674

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4063930	.0103646	.0093516	10.16508	.0210271	.0995727
Stddev	.0000211	.0000542	.0000121	.03299	.0002544	.0000713
%RSD	.0051958	.5233914	.1297329	.3245826	1.209691	.0716467
#1	.4063800	.0103510	.0093609	10.14696	.0213122	.0994913
#2	.4063817	.0103184	.0093559	10.20317	.0209453	.0996245
#3	.4064174	.0104243	.0093379	10.14513	.0208236	.0996023

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0619444	.2263148	.0333637	10.07216	.0771604	.0200963
Stddev	.0017299	.0239746	.0013193	.09581	.0002714	.0014192
%RSD	2.792618	10.59348	3.954370	.9512248	.3517122	7.061884
#1	.0618650	.2071104	.0318646	10.13777	.0772415	.0198870
#2	.0637126	.2531848	.0338784	10.11651	.0768578	.0187934
#3	.0602556	.2186493	.0343481	9.96222	.0773821	.0216085

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.757025	.1059081	.1107055	9.364334	.0186681	F -.001706
Stddev	.375311	.0021702	.0083731	.048857	.0016554	.000460
%RSD	3.846576	2.049111	7.563364	.5217329	8.867529	26.98960
#1	9.976256	.1064706	.1109588	9.331583	.0173758	-.002200
#2	9.971156	.1035120	.1189490	9.420490	.0180945	-.001289
#3	9.323663	.1077416	.1022086	9.340929	.0205340	-.001628

Reviewed By:kareem
On:12/13/2024 7:24:03 PM
Inst Id :P5

Sample Name: PB165351BS Acquired: 12/10/2024 18:13:58 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: LCS351 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0179941	.1737289	F .4733749	.0131819	.2000800	.2099483
Stddev	.0004035	.0025405	.0038842	.0003639	.0023169	.0006641
%RSD	2.242588	1.462339	.8205377	2.760914	1.157988	.3163205
#1	.0183129	.1764854	.4766442	.0128112	.2018489	.2104727
#2	.0181291	.1732199	.4743993	.0135387	.1974574	.2101707
#3	.0175404	.1714815	.4690811	.0131957	.2009337	.2092016

Elem	Li6707
Units	ppm
Avg	F -.011335
Stddev	.004071
%RSD	35.91962
#1	-.013720
#2	-.006634
#3	-.013651

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2482.952	27250.63	2653.928	1931.773	3863.191
Stddev	3.917	12.16	10.195	2.610	9.436
%RSD	.1577585	.0446216	.3841528	.1351267	.2442596
#1	2483.966	27245.81	2646.682	1933.360	3865.799
#2	2486.262	27241.62	2649.516	1933.199	3871.049
#3	2478.627	27264.46	2665.586	1928.760	3852.726

Reviewed By:kareem
On:12/13/2024 7:24:03 PM
Inst Id :P5

Sample Name: PB165350BL Acquired: 12/10/2024 18:17:59 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: PBS350 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000526	.0012202	-.001306	.0016929	.0016674	.0278021
Stddev	.001609	.0017605	.000713	.0019551	.0012097	.0046085
%RSD	305.8720	144.2802	54.63499	115.4932	72.54836	16.57607
#1	-.000443	.0024829	-.000966	.0034970	.0021836	.0230784
#2	-.002175	-.000791	-.002126	-.000385	.0025334	.0280419
#3	.001040	.001969	-.000826	.001966	.0002853	.0322861

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0020912	-.000076	.0000854	-.048580	-.001257	.0002826
Stddev	.0013316	.000057	.0000432	.024389	.000572	.0003157
%RSD	63.67714	74.34177	50.56318	50.20447	45.48476	111.7133
#1	.0036198	-.000141	.0000591	-.029527	-.001900	.0004327
#2	.0011825	-.000041	.0001353	-.076066	-.001063	-.000080
#3	.0014714	-.000046	.0000619	-.040146	-.000807	.000495

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0004174	.0073270	.0004953	-.000541	-.000709	.0005378
Stddev	.0035233	.0108406	.0014011	.107363	.000374	.0003733
%RSD	844.1248	147.9536	282.8742	19858.56	52.71445	69.40593
#1	-.000225	-.004897	-.001113	.011469	-.000501	.0009581
#2	.004218	.015774	.001451	-.113403	-.000485	.0002449
#3	-.002741	.011104	.001149	.100313	-.001140	.0004104

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3181083	-.002985	-.002789	-.334348	-.000925	-.003109
Stddev	.1592376	.006685	.003674	.017912	.001639	.002477
%RSD	50.05766	223.9251	131.7386	5.357154	177.2205	79.67655
#1	.2165882	.004625	.001081	-.333921	-.000272	-.005718
#2	.5016345	-.007909	-.006230	-.316654	-.002789	-.002821
#3	.2361021	-.005672	-.003218	-.352469	.000287	-.000789

Reviewed By:kareem
On:12/13/2024 7:24:03 PM
Inst Id :P5

Sample Name: PB165350BL Acquired: 12/10/2024 18:17:59 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: PBS350 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000778	-.003173	-.000757	F -.010418	.0016708	.0001307
Stddev	.000154	.001098	.000172	.000363	.0019980	.0002157
%RSD	19.86266	34.59157	22.75327	3.488684	119.5875	164.9867
#1	-.000873	-.002718	-.000622	-.009999	.0013449	-.000114
#2	-.000599	-.004426	-.000951	-.010649	-.000144	.000212
#3	-.000860	-.002377	-.000698	-.010606	.003812	.000294

Elem	Li6707
Units	ppm
Avg	F -.040814
Stddev	.003089
%RSD	7.567428
#1	-.044372
#2	-.038828
#3	-.039242

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2508.071	27615.50	2655.583	1947.989	3929.348
Stddev	2.732	182.05	16.573	13.453	10.928
%RSD	.1089375	.6592327	.6240879	.6905966	.2781068
#1	2507.375	27443.94	2653.649	1935.103	3925.933
#2	2511.083	27596.08	2640.062	1946.920	3941.576
#3	2505.753	27806.48	2673.038	1961.945	3920.536

Reviewed By:kareem
On:12/13/2024 7:24:03 PM
Inst Id :P5

Sample Name: PB165350BS Acquired: 12/10/2024 18:22:04 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: LCS350 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0198793	.0480192	.0166842	.0627768	.1051420	.4005138
Stddev	.0029917	.0009951	.0019704	.0015509	.0007845	.0014707
%RSD	15.04946	2.072233	11.81012	2.470543	.7461092	.3671917
#1	.0192531	.0477948	.0152591	.0612046	.1046675	.3988457
#2	.0172503	.0471555	.0189328	.0643055	.1047111	.4016230
#3	.0231346	.0491073	.0158608	.0628202	.1060475	.4010728

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4082904	.0104674	.0093320	10.21888	.0207430	.1006185
Stddev	.0006520	.0001034	.0000668	.02404	.0001587	.0002395
%RSD	.1596977	.9881879	.7159520	.2352077	.7652365	.2379941
#1	.4090371	.0104638	.0093718	10.19791	.0205842	.1003478
#2	.4080005	.0103657	.0092549	10.21362	.0207433	.1007050
#3	.4078336	.0105725	.0093694	10.24511	.0209017	.1008027

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0532367	.2152129	.0331077	10.11124	.0785051	.0191622
Stddev	.0049239	.0310621	.0010755	.11884	.0001641	.0013433
%RSD	9.249079	14.43317	3.248506	1.175321	.2090621	7.009927
#1	.0589208	.1795739	.0320996	10.20960	.0786656	.0180623
#2	.0502828	.2295330	.0329836	10.14493	.0783375	.0206593
#3	.0505064	.2365319	.0342399	9.97919	.0785121	.0187652

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.836501	.0991553	.1079875	9.627275	.0160050	F -.004365
Stddev	.062424	.0024963	.0016207	.090884	.0031418	.002708
%RSD	.6346109	2.517554	1.500859	.9440239	19.63023	62.04891
#1	9.778896	.0977919	.1077836	9.566303	.0137213	-.002033
#2	9.902826	.1020363	.1064784	9.583792	.0147056	-.007335
#3	9.827781	.0976375	.1097006	9.731732	.0195881	-.003725

Reviewed By:kareem
On:12/13/2024 7:24:03 PM
Inst Id :P5

Sample Name: PB165350BS Acquired: 12/10/2024 18:22:04 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: LCS350 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0179937	.1759469	F .4739915	.0122529	.1985120	.2101155
Stddev	.0003542	.0005816	.0008987	.0011685	.0044624	.0008087
%RSD	1.968675	.3305804	.1895959	9.536603	2.247949	.3848859
#1	.0183734	.1761481	.4729539	.0120719	.1988629	.2093282
#2	.0176721	.1764012	.4744986	.0111854	.2027886	.2109441
#3	.0179355	.1752914	.4745221	.0135013	.1938845	.2100742

Elem	Li6707
Units	ppm
Avg	F -.009215
Stddev	.001419
%RSD	15.39640
#1	-.010445
#2	-.007663
#3	-.009536

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2493.475	27480.27	2659.990	1945.496	3876.824
Stddev	10.464	8.33	7.810	5.765	13.732
%RSD	.4196398	.0303161	.2936001	.2963023	.3542195
#1	2483.626	27472.49	2651.592	1950.720	3862.168
#2	2504.461	27489.06	2667.034	1939.311	3889.395
#3	2492.338	27479.26	2661.343	1946.457	3878.909

Reviewed By:kareem
On:12/13/2024 7:24:03 PM
Inst Id :P5

Sample Name: CCV090 Acquired: 12/10/2024 18:26:03 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV090 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.928887	4.901433	24.93959	4.760284	4.839254	399.5872
Stddev	.023847	.020221	.09706	.024082	.016021	1.4996
%RSD	.4838223	.4125565	.3891860	.5058902	.3310555	.3752917
#1	4.923919	4.889471	24.86718	4.742673	4.824509	400.7595
#2	4.907915	4.890048	24.90172	4.750453	4.836953	397.8974
#3	4.954826	4.924780	25.04988	4.787726	4.856301	400.1048

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	10.12509	.5041438	2.508260	405.2378	15.60971	2.526815
Stddev	.04109	.0046286	.009799	1.1623	.01204	.010544
%RSD	.4058083	.9181016	.3906888	.2868120	.0771256	.4172752
#1	10.15170	.5085485	2.499341	406.2728	15.60749	2.517898
#2	10.07777	.4993199	2.506687	403.9804	15.59893	2.524096
#3	10.14580	.5045630	2.518750	405.4601	15.62270	2.538453

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	15.06968	406.8036	14.96942	406.1755	2.521291	1.252044
Stddev	.02058	1.7643	.04752	.5961	.008692	.000792
%RSD	.1365661	.4337083	.3174660	.1467603	.3447259	.0632414
#1	15.06344	408.2259	15.01648	405.7619	2.514600	1.251154
#2	15.05294	404.8292	14.92144	405.9058	2.518160	1.252669
#3	15.09265	407.3556	14.97036	406.8588	2.531115	1.252310

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	400.4574	2.518448	14.77530	152.5548	5.002156	F 4.165039
Stddev	.6264	.011870	.15856	.4888	.024410	.037151
%RSD	.1564176	.4713101	1.073122	.3204097	.4879895	.8919611
#1	400.6778	2.531473	14.68154	152.5408	4.980813	4.197484
#2	399.7506	2.515629	14.95837	152.0732	4.996883	4.124513
#3	400.9438	2.508242	14.68600	153.0505	5.028771	4.173120

Reviewed By:kareem
On:12/13/2024 7:24:03 PM
Inst Id :P5

Sample Name: CCV090 Acquired: 12/10/2024 18:26:03 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV090 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.825736	5.033655	4.935018	5.032312	5.017230	4.847350
Stddev	.016000	.029110	.054995	.023357	.007957	.007006
%RSD	.3315603	.5783125	1.114388	.4641330	.1585933	.1445345
#1	4.811335	5.002915	4.984253	5.009445	5.023850	4.849892
#2	4.822913	5.037249	4.875667	5.031362	5.019438	4.839427
#3	4.842960	5.060801	4.945132	5.056129	5.008402	4.852729

Elem	Li6707
Units	ppm
Avg	5.053269
Stddev	.024428
%RSD	.4834179
#1	5.074454
#2	5.026548
#3	5.058804

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2110.666	24155.30	2585.029	1607.210	3106.505
Stddev	4.720	56.27	20.282	11.454	7.579
%RSD	.2236070	.2329499	.7845796	.7126760	.2439583
#1	2116.115	24218.05	2566.253	1611.626	3115.243
#2	2108.027	24109.32	2606.539	1594.205	3102.557
#3	2107.855	24138.54	2582.294	1615.799	3101.716

Reviewed By:kareem
On:12/13/2024 7:24:03 PM
Inst Id :P5

Sample Name: CCB090 Acquired: 12/10/2024 18:29:44 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB090 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.001496	.0017547	-.000025	.0067262	.0002541	.0057372
Stddev	.002335	.0010944	.001330	.0033896	.0005715	.0240778
%RSD	156.0426	62.37322	5304.558	50.39481	224.9386	419.6764
#1	.000115	.0028461	-.000027	.0094100	-.000130	-.017977
#2	-.000430	.0006573	-.001355	.0029170	.000911	.005027
#3	-.004174	.0017605	.001306	.0078516	-.000019	.030163

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0003336	-.000035	.0000794	.0602072	-.001083	.0001745
Stddev	.0012691	.000104	.0000422	.0198071	.000493	.0000915
%RSD	380.4373	298.1970	53.17854	32.89821	45.53038	52.43496
#1	-.000912	.000059	.0001232	.0507472	-.001341	.0002793
#2	.000287	-.000146	.0000760	.0469039	-.001394	.0001103
#3	.001625	-.000017	.0000390	.0829706	-.000514	.0001341

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0010158	.0221267	.0010530	-.019814	-.000212	-.000942
Stddev	.0012131	.0400294	.0017237	.127146	.000611	.001234
%RSD	119.4257	180.9096	163.7035	641.6850	288.3008	131.0000
#1	-.000050	.0600912	-.000836	.054139	.000353	-.002157
#2	.000761	-.019689	.002540	-.166629	-.000861	-.000981
#3	.002336	.025978	.001456	.053046	-.000127	.000311

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.198652	.0011064	.0001775	-.035395	-.002861	.0117732
Stddev	.478711	.0050230	.0060336	.195654	.002162	.0003786
%RSD	240.9798	453.9808	3399.177	552.7672	75.54715	3.215806
#1	-.607849	-.004232	-.006494	-.186749	-.002376	.0120204
#2	-.315897	.005739	.001776	.185539	-.005224	.0113374
#3	.327789	.001812	.005251	-.104976	-.000984	.0119619

Reviewed By:kareem
On:12/13/2024 7:24:03 PM
Inst Id :P5

Sample Name: CCB090 Acquired: 12/10/2024 18:29:44 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB090 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000513	-.006070	-.000356	F -.010088	.0042525	.0002400
Stddev	.000193	.004857	.000450	.000282	.0035783	.0002583
%RSD	37.71562	80.01954	126.5313	2.796533	84.14578	107.6251
#1	-.000481	-.001032	-.000726	-.009767	.0007006	.0004886
#2	-.000337	-.006453	-.000486	-.010203	.0078567	.0002587
#3	-.000720	-.010723	.000145	-.010295	.0042002	-.000027

Elem	Li6707
Units	ppm
Avg	F -.022281
Stddev	.002152
%RSD	9.657544
#1	-.022728
#2	-.019941
#3	-.024174

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2529.547	27820.01	2688.185	1968.046	3941.010
Stddev	15.361	49.98	4.735	6.863	22.852
%RSD	.6072625	.1796422	.1761558	.3487096	.5798599
#1	2530.031	27762.36	2691.221	1960.576	3943.271
#2	2544.660	27851.04	2690.605	1974.072	3962.648
#3	2513.949	27846.63	2682.728	1969.491	3917.111

Reviewed By:kareem
On:12/13/2024 7:24:03 PM
Inst Id :P5

Sample Name: P5041-01 Acquired: 12/10/2024 18:33:50 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK78 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2394960	.0074021	9.663514	.0034025	-.005291	65.59257
Stddev	.0036207	.0025113	.025281	.0031466	.000868	.17505
%RSD	1.511810	33.92628	.2616155	92.47965	16.40689	.2668757
#1	.2434550	.0092437	9.638658	-.000129	-.004930	65.62083
#2	.2386801	.0045415	9.662684	.004430	-.006282	65.75177
#3	.2363528	.0084212	9.689200	.005907	-.004662	65.40510

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.475690	.0067769	.0114871	172.8325	.1614559	.1107733
Stddev	.010073	.0000810	.0000319	.4137	.0018697	.0007578
%RSD	.4068748	1.194772	.2776449	.2393439	1.158041	.6840959
#1	2.472467	.0066838	.0115236	173.1189	.1611983	.1101468
#2	2.486979	.0068159	.0114650	173.0204	.1597284	.1105575
#3	2.467622	.0068311	.0114726	172.3582	.1634411	.1116156

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4421211	133.5144	9.472684	23.59242	.1888673	-.007249
Stddev	.0033218	.2355	.030617	.07932	.0005789	.001090
%RSD	.7513399	.1763752	.3232161	.3362240	.3065350	15.03764
#1	.4421052	133.5844	9.496777	23.57610	.1886465	-.007049
#2	.4454508	133.7069	9.483046	23.67864	.1884312	-.006272
#3	.4388072	133.2518	9.438231	23.52253	.1895241	-.008425

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.124758	.3563445	3.079255	7.987114	F 18.47128	-.338955
Stddev	.282646	.0049433	.021587	.152292	.03534	.006419
%RSD	25.12948	1.387219	.7010469	1.906720	.1913014	1.893888
#1	.899451	.3575977	3.077556	7.993373	18.44257	-.342255
#2	1.032921	.3605406	3.058568	7.831788	18.46052	-.331557
#3	1.441902	.3508953	3.101641	8.136179	18.51074	-.343054

Reviewed By:kareem
On:12/13/2024 7:24:03 PM
Inst Id :P5

Sample Name: P5041-01 Acquired: 12/10/2024 18:33:50 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK78 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0212035	3.458861	4.905383	.2101124	.8283080	.6221564
Stddev	.0001649	.013347	.002529	.0003207	.0030113	.0024813
%RSD	.7777195	.3858788	.0515471	.1526083	.3635523	.3988297
#1	.0213242	3.443680	4.904763	.2098061	.8286774	.6240185
#2	.0212706	3.464150	4.908164	.2104457	.8311176	.6231112
#3	.0210156	3.468753	4.903222	.2100854	.8251290	.6193395

Elem	Li6707
Units	ppm
Avg	.0911111
Stddev	.0043257
%RSD	4.747737
#1	.0883201
#2	.0889191
#3	.0960940

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2927.112	31689.08	3172.789	2268.878	3813.693
Stddev	7.914	349.13	10.630	27.179	18.200
%RSD	.2703830	1.101747	.3350223	1.197917	.4772242
#1	2934.536	31948.02	3184.735	2282.887	3829.451
#2	2928.016	31827.20	3169.257	2286.195	3817.857
#3	2918.785	31292.02	3164.375	2237.552	3793.773

Reviewed By:kareem
On:12/13/2024 7:24:03 PM
Inst Id :P5

Sample Name: P5041-02 Acquired: 12/10/2024 18:37:40 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK78D Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2312064	.0059890	9.560599	.0029381	-.003994	65.53130
Stddev	.0035231	.0007677	.046451	.0051157	.001969	.15461
%RSD	1.523794	12.81808	.4858538	174.1197	49.29545	.2359321
#1	.2308943	.0058351	9.590432	-.002632	-.003166	65.56120
#2	.2348751	.0053099	9.584285	.004020	-.002575	65.36393
#3	.2278497	.0068219	9.507080	.007426	-.006242	65.66879

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.453205	.0067272	.0114550	171.8328	.1583459	.1098403
Stddev	.002098	.0000407	.0001111	.4116	.0003159	.0007823
%RSD	.0855049	.6043810	.9702341	.2395441	.1995243	.7121918
#1	2.454939	.0067318	.0115593	172.0433	.1580010	.1103990
#2	2.450873	.0066844	.0114674	171.3585	.1584154	.1101757
#3	2.453803	.0067653	.0113381	172.0966	.1586213	.1089463

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4379902	132.3762	9.462725	23.62938	.1875676	-.006985
Stddev	.0076794	.4436	.029987	.12781	.0010868	.000266
%RSD	1.753326	.3351277	.3168997	.5409027	.5794308	3.802452
#1	.4298476	132.3216	9.488471	23.75641	.1885970	-.007291
#2	.4390208	131.9624	9.429800	23.63093	.1876746	-.006822
#3	.4451023	132.8446	9.469905	23.50080	.1864312	-.006840

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6967740	.3525237	3.053755	7.948310	F 18.21283	-.338265
Stddev	.6714712	.0037073	.003885	.182515	.08816	.001865
%RSD	96.36858	1.051659	.1272086	2.296271	.4840340	.5512225
#1	.9678575	.3568039	3.049568	7.796693	18.27565	-.336430
#2	1.190326	.3504482	3.057243	7.897347	18.25078	-.340158
#3	-.067861	.3503191	3.054455	8.150889	18.11205	-.338208

Reviewed By:kareem
On:12/13/2024 7:24:03 PM
Inst Id :P5

Sample Name: P5041-02 Acquired: 12/10/2024 18:37:40 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK78D Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0211180	3.392633	4.876054	.2072082	.8297093	.6242348
Stddev	.0001344	.020719	.019206	.0010451	.0051540	.0027929
%RSD	.6364508	.6107062	.3938822	.5043873	.6211764	.4474148
#1	.0212718	3.411758	4.870651	.2060309	.8356603	.6271561
#2	.0210231	3.395518	4.860128	.2080267	.8266793	.6215910
#3	.0210591	3.370623	4.897382	.2075669	.8267884	.6239575

Elem	Li6707
Units	ppm
Avg	.0900102
Stddev	.0016495
%RSD	1.832570
#1	.0914886
#2	.0882310
#3	.0903110

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2890.768	31584.35	3116.520	2252.510	3786.376
Stddev	9.721	35.45	15.768	3.797	15.791
%RSD	.3362808	.1122413	.5059419	.1685568	.4170570
#1	2886.887	31607.67	3122.430	2256.410	3781.342
#2	2883.586	31543.55	3128.479	2252.295	3773.716
#3	2901.830	31601.83	3098.651	2248.825	3804.071

Reviewed By:kareem
On:12/13/2024 7:24:03 PM
Inst Id :P5

Sample Name: P5041-01LX5 Acquired: 12/10/2024 18:41:28 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK78L Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0480449	.0021125	1.984514	.0054391	-.002851	14.94117	.5656299
Stddev	.0031876	.0011559	.002557	.0014450	.000414	.04999	.0028004
%RSD	6.634574	54.71421	.1288386	26.56699	14.53237	.3345956	.4950989
#1	.0513175	.0019220	1.986683	.0048473	-.003123	14.88715	.5636429
#2	.0478674	.0033518	1.985162	.0070860	-.003055	14.95057	.5644141
#3	.0449498	.0010638	1.981695	.0043839	-.002374	14.98580	.5688328

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0015834	.0022981	39.63291	.0351345	.0331792	.0988898	30.66144
Stddev	.0001408	.0001080	.08785	.0007395	.0005109	.0056262	.08445
%RSD	8.893621	4.701456	.2216628	2.104757	1.539798	5.689407	.2754116
#1	.0014436	.0024181	39.57734	.0351773	.0334443	.0946320	30.68492
#2	.0015813	.0022676	39.73419	.0358517	.0325903	.0967692	30.56774
#3	.0017252	.0022086	39.58720	.0343745	.0335031	.1052682	30.73167

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.181671	5.358811	.0373478	-.002630	.4552964	.0779713	.6902641
Stddev	.007057	.080061	.0010120	.001542	.5407217	.0087086	.0087114
%RSD	.3234862	1.493998	2.709689	58.61925	118.7626	11.16898	1.262043
#1	2.175456	5.334859	.0373985	-.001856	-.109236	.0706589	.6985061
#2	2.189343	5.448113	.0383334	-.004405	.506570	.0756494	.6811490
#3	2.180213	5.293460	.0363113	-.001629	.968555	.0876055	.6911372

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.568746	3.718199	-.080254	.0040837	.6839369	1.134186	.0345187
Stddev	.086944	.004487	.000633	.0002351	.0021807	.003163	.0006358
%RSD	5.542269	.1206899	.7882227	5.756649	.3188388	.2788811	1.841768
#1	1.468552	3.722841	-.080420	.0039652	.6857207	1.130542	.0347995
#2	1.624328	3.713884	-.079555	.0039315	.6815059	1.136214	.0337908
#3	1.613358	3.717871	-.080788	.0043545	.6845841	1.135803	.0349656

Reviewed By:kareem
On:12/13/2024 7:24:03 PM
Inst Id :P5

Sample Name: P5041-01LX5 Acquired: 12/10/2024 18:41:28 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK78L Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.1867954	.1424149	-.002460
Stddev	.0040717	.0010537	.004661
%RSD	2.179752	.7398631	189.4717
#1	.1872423	.1416273	.002826
#2	.1906252	.1436118	-.004226
#3	.1825187	.1420055	-.005981

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2582.949	28469.79	2754.704	2012.852	3850.310
Stddev	5.370	113.23	15.805	6.056	5.980
%RSD	.2078849	.3977122	.5737304	.3008870	.1553011
#1	2578.543	28451.21	2770.983	2012.739	3845.922
#2	2588.930	28591.16	2739.421	2018.964	3857.121
#3	2581.373	28367.00	2753.710	2006.853	3847.888

Reviewed By:kareem
On:12/13/2024 7:24:03 PM
Inst Id :P5

Sample Name: P5041-03 Acquired: 12/10/2024 18:45:24 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK78S Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3182951	.0981249	9.494938	.1507188	.1529614	69.14714
Stddev	.0026020	.0027555	.056698	.0011682	.0009796	2.63245
%RSD	.8174961	2.808192	.5971349	.7751115	.6404248	3.807022
#1	.3156196	.0996914	9.557741	.1505873	.1530117	72.18658
#2	.3184488	.0997401	9.479551	.1496218	.1519575	67.66095
#3	.3208169	.0949432	9.447522	.1519472	.1539148	67.59388

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.096958	.0974655	.1039023	171.8238	.5249846	1.086831
Stddev	.217635	.0031448	.0006352	6.4375	.0107018	.007009
%RSD	3.569570	3.226622	.6113100	3.746589	2.038504	.6449085
#1	6.348260	.1010482	.1046156	179.2526	.5127969	1.094208
#2	5.971944	.0951610	.1036935	168.3357	.5328459	1.086026
#3	5.970668	.0961873	.1033979	167.8831	.5293111	1.080259

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8669256	134.7619	10.29128	23.42294	1.172917	.0740759
Stddev	.0392467	5.2682	.35234	.90772	.008709	.0001488
%RSD	4.527110	3.909299	3.423669	3.875366	.7424753	.2008809
#1	.9116518	140.8302	10.69793	24.46731	1.182039	.0740098
#2	.8382397	132.0958	10.07718	22.97772	1.172023	.0739716
#3	.8508854	131.3595	10.09872	22.82378	1.164690	.0742463

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9006630	1.266608	3.753619	8.052604	F 17.99994	-.330767
Stddev	.6871720	.056620	.062363	.262596	.09551	.011340
%RSD	76.29625	4.470186	1.661397	3.261009	.5306182	3.428275
#1	.7465166	1.331300	3.684660	8.354610	18.10450	-.342592
#2	.3036556	1.242450	3.806059	7.878129	17.97804	-.319985
#3	1.651817	1.226075	3.770137	7.925072	17.91728	-.329726

Reviewed By:kareem
On:12/13/2024 7:24:03 PM
Inst Id :P5

Sample Name: P5041-03 Acquired: 12/10/2024 18:45:24 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK78S Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0209460	3.383938	4.806402	.2049373	.8222690	.6163751
Stddev	.0001743	.017572	.150459	.0027520	.0274326	.0203945
%RSD	.8319475	.5192637	3.130394	1.342856	3.336203	3.308775
#1	.0209128	3.399463	4.976164	.2075368	.8536505	.6398604
#2	.0207906	3.387490	4.689528	.2052204	.8028437	.6031278
#3	.0211344	3.364862	4.753514	.2020547	.8103128	.6061371

Elem	Li6707
Units	ppm
Avg	.0900121
Stddev	.0073629
%RSD	8.179896
#1	.0972064
#2	.0903384
#3	.0824915

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2923.196	32354.17	3135.787	2294.206	3839.623
Stddev	9.698	466.63	109.773	31.426	19.813
%RSD	.3317564	1.442260	3.500663	1.369781	.5160267
#1	2915.191	32859.17	3010.081	2329.611	3819.916
#2	2920.417	31938.96	3212.736	2269.616	3839.412
#3	2933.980	32264.39	3184.545	2283.392	3859.541

Reviewed By:kareem
On:12/13/2024 7:24:03 PM
Inst Id :P5

Sample Name: P5042-01 Acquired: 12/10/2024 18:49:13 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKB0 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1284278	.0072712	2.500005	-.001371	-.002788	68.96950	1.497378
Stddev	.0015994	.0007306	.036268	.003693	.004879	1.00226	.023163
%RSD	1.245375	10.04760	1.450723	269.3792	175.0115	1.453188	1.546881
#1	.1293541	.0077421	2.480720	-.005348	-.008378	69.48077	1.505848
#2	.1293483	.0064296	2.541841	-.000714	.000613	67.81472	1.471173
#3	.1265809	.0076420	2.477454	.001949	-.000598	69.61302	1.515114

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0072107	.0084479	133.2050	.1171192	.1257808	.4904064	173.2357
Stddev	.0000873	.0001017	1.9199	.0007401	.0015443	.0139856	2.3778
%RSD	1.210971	1.203335	1.441340	.6319437	1.227727	2.851835	1.372605
#1	.0072795	.0084770	134.1903	.1173508	.1247044	.4980386	174.5500
#2	.0072401	.0085318	130.9924	.1177159	.1275502	.4742652	170.4908
#3	.0071124	.0083349	134.4321	.1162910	.1250878	.4989154	174.6663

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	13.37916	38.44643	.1971514	-.011429	.8740198	.1570916	1.661234
Stddev	.20132	.40923	.0019440	.000419	.6916265	.0031173	.014887
%RSD	1.504739	1.064405	.9860301	3.663329	79.13168	1.984406	.8961693
#1	13.47756	38.74188	.1965034	-.011720	1.200717	.1581122	1.659446
#2	13.14756	37.97934	.1993366	-.011619	.079562	.1535919	1.647322
#3	13.51234	38.61809	.1956142	-.010949	1.341780	.1595706	1.676935

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.459074	8.663444	-.460350	.0059322	2.754918	5.828430	.3464366
Stddev	.156874	.124066	.002676	.0002050	.045025	.047354	.0059447
%RSD	1.658447	1.432062	.5812980	3.455954	1.634361	.8124656	1.715967
#1	9.430450	8.605680	-.461060	.0057527	2.724742	5.878723	.3469719
#2	9.318483	8.805859	-.457391	.0058883	2.806672	5.784700	.3520955
#3	9.628288	8.578792	-.462600	.0061556	2.733342	5.821867	.3402423

Reviewed By:kareem
On:12/13/2024 7:24:03 PM
Inst Id :P5

Sample Name: P5042-01 Acquired: 12/10/2024 18:49:13 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKB0 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.6196112	.9512900	.0385422
Stddev	.0105070	.0158011	.0044963
%RSD	1.695742	1.661013	11.66580
#1	.6204938	.9594490	.0406038
#2	.6086907	.9330774	.0333848
#3	.6296490	.9613437	.0416380

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2989.100	32574.78	3264.621	2321.097	3726.991
Stddev	24.880	122.15	14.544	5.455	42.280
%RSD	.8323669	.3749706	.4455028	.2350074	1.134415
#1	2996.495	32711.81	3248.533	2327.197	3748.018
#2	2961.361	32477.34	3276.838	2316.688	3678.320
#3	3009.445	32535.20	3268.491	2319.406	3754.634

Reviewed By:kareem
On:12/13/2024 7:24:03 PM
Inst Id :P5

Sample Name: P5042-02 Acquired: 12/10/2024 18:53:02 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKB0D Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1287286	.0072564	2.491583	-.000657	-.003992	69.04628	1.508956
Stddev	.0011875	.0008990	.004015	.001615	.000722	.61159	.009107
%RSD	.9224953	12.38934	.1611304	245.7596	18.08776	.8857624	.6035320
#1	.1279456	.0068121	2.491863	.001183	-.004346	68.60917	1.504070
#2	.1281452	.0066660	2.495450	-.001841	-.004467	68.78448	1.503334
#3	.1300950	.0082910	2.487436	-.001313	-.003161	69.74518	1.519463

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0071765	.0083805	133.9119	.1165361	.1244751	.5014670	174.2288
Stddev	.0001950	.0001311	1.1960	.0019817	.0003093	.0080319	1.4948
%RSD	2.716550	1.564828	.8931553	1.700496	.2484470	1.601672	.8579558
#1	.0070522	.0084815	133.1699	.1175168	.1241470	.4933870	173.1481
#2	.0070762	.0084278	133.2742	.1142553	.1245170	.5094498	173.6035
#3	.0074012	.0082323	135.2917	.1178362	.1247612	.5015643	175.9347

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	13.38729	38.39321	.1945308	-.010049	.8509782	.1665441	1.641094
Stddev	.13591	.47782	.0010745	.000809	.4227719	.0022895	.026162
%RSD	1.015246	1.244535	.5523289	8.050461	49.68070	1.374695	1.594206
#1	13.31380	38.25545	.1954610	-.009962	1.117258	.1689645	1.656924
#2	13.30395	37.99941	.1947767	-.009287	1.072179	.1644131	1.610896
#3	13.54413	38.92478	.1933547	-.010898	.363497	.1662546	1.655463

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.494141	8.644209	-.463560	.0060098	2.747731	5.802488	.3471474
Stddev	.176594	.012872	.012528	.0002148	.009979	.116631	.0011658
%RSD	1.860032	.1489099	2.702520	3.574785	.3631891	2.010017	.3358099
#1	9.318739	8.640905	-.458666	.0060022	2.755970	5.746154	.3476830
#2	9.491779	8.658411	-.454218	.0057989	2.736635	5.724718	.3458101
#3	9.671904	8.633311	-.477796	.0062283	2.750589	5.936592	.3479491

Reviewed By:kareem
On:12/13/2024 7:24:03 PM
Inst Id :P5

Sample Name: P5042-02 Acquired: 12/10/2024 18:53:02 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKB0D Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.6248292	.9515195	.0379391
Stddev	.0047785	.0097704	.0021149
%RSD	.7647750	1.026824	5.574424
#1	.6202262	.9478598	.0403633
#2	.6244956	.9441072	.0369828
#3	.6297658	.9625914	.0364712

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3019.799	32905.82	3285.676	2351.826	3762.324
Stddev	8.130	396.52	50.358	29.943	9.016
%RSD	.2692397	1.205024	1.532653	1.273160	.2396466
#1	3012.354	32770.50	3309.574	2349.318	3751.944
#2	3018.568	33352.29	3319.635	2382.944	3766.814
#3	3028.475	32594.67	3227.818	2323.216	3768.214

Reviewed By:kareem
On:12/13/2024 7:24:03 PM
Inst Id :P5

Sample Name: P5042-01LX5 Acquired: 12/10/2024 18:56:51 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKB0L Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0241831	.0028728	.4962245	.0004008	-.001211	15.82763	.3478329
Stddev	.0010472	.0011334	.0057135	.0023017	.001806	.02190	.0012219
%RSD	4.330419	39.45128	1.151388	574.2424	149.1140	.1383808	.3512970
#1	.0246696	.0023939	.5015312	.0012413	-.002292	15.80418	.3486038
#2	.0229811	.0041670	.4969657	-.002203	.000874	15.83114	.3484709
#3	.0248987	.0020575	.4901766	.002164	-.002215	15.84757	.3464240

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0016763	.0016867	30.88387	.0258782	.0331510	.1153704	40.28345
Stddev	.0001230	.0000045	.03725	.0013073	.0001367	.0037585	.06975
%RSD	7.335398	.2685833	.1206252	5.051759	.4124349	3.257770	.1731386
#1	.0018179	.0016868	30.85901	.0270430	.0331989	.1196276	40.35897
#2	.0016144	.0016912	30.86589	.0244643	.0332574	.1139724	40.26994
#3	.0015965	.0016822	30.92670	.0261275	.0329968	.1125112	40.22145

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.110861	8.874163	.0383027	-.003026	.1901624	.0412734	.3813697
Stddev	.008797	.064238	.0006507	.000598	.5528979	.0056571	.0055297
%RSD	.2827947	.7238772	1.698756	19.77565	290.7505	13.70642	1.449958
#1	3.111187	8.809738	.0385812	-.003438	-.427903	.0440385	.3858685
#2	3.101906	8.938213	.0387678	-.003299	.360657	.0450161	.3751962
#3	3.119492	8.874539	.0375591	-.002339	.637733	.0347655	.3830443

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.877256	1.692451	-.113003	.0006976	.5357538	1.404674	.0589650
Stddev	.086719	.014187	.001793	.0002669	.0059965	.003340	.0014701
%RSD	4.619479	.8382520	1.586924	38.25490	1.119257	.2377944	2.493224
#1	1.912112	1.708403	-.113231	.0009973	.5423831	1.406890	.0594036
#2	1.941124	1.687701	-.114671	.0004856	.5307080	1.406300	.0573255
#3	1.778532	1.681248	-.111107	.0006100	.5341702	1.400832	.0601659

Reviewed By:kareem
On:12/13/2024 7:24:03 PM
Inst Id :P5

Sample Name: P5042-01LX5 Acquired: 12/10/2024 18:56:51 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKB0L Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.1435485	.2201422	-.024976
Stddev	.0028228	.0007407	.003522
%RSD	1.966429	.3364738	14.09993
#1	.1408574	.2205652	-.024463
#2	.1464867	.2192869	-.028726
#3	.1433015	.2205746	-.021739

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2613.962	28879.13	2803.304	2049.178	3845.175
Stddev	14.834	135.52	19.267	13.026	29.014
%RSD	.5674795	.4692698	.6872932	.6356926	.7545684
#1	2596.923	28772.75	2801.635	2035.115	3811.820
#2	2620.967	29031.71	2784.927	2060.831	3859.128
#3	2623.996	28832.93	2823.352	2051.589	3864.576

Reviewed By:kareem
On:12/13/2024 7:24:03 PM
Inst Id :P5

Sample Name: P5042-03 Acquired: 12/10/2024 19:00:46 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKB0S Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2088738	.0965660	2.449293	.1429665	.1485082	70.40306	4.864656
Stddev	.0036036	.0014167	.022883	.0055797	.0036991	.38372	.023451
%RSD	1.725257	1.467120	.9342577	3.902808	2.490833	.5450399	.4820618
#1	.2062010	.0955819	2.439630	.1373071	.1483574	69.96485	4.837640
#2	.2074483	.0981898	2.432828	.1431293	.1448868	70.56541	4.876576
#3	.2129721	.0959263	2.475423	.1484630	.1522803	70.67893	4.879753

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0933524	.1022395	129.1797	.4840034	1.116597	.8841488	169.1462
Stddev	.0009647	.0007842	.7380	.0011454	.011198	.0066528	1.0804
%RSD	1.033368	.7670429	.5713260	.2366506	1.002849	.7524565	.6387241
#1	.0922398	.1018224	128.4515	.4852567	1.111209	.8829309	167.9222
#2	.0939545	.1017520	129.1603	.4837426	1.109112	.8781891	169.5490
#3	.0938630	.1031442	129.9272	.4830108	1.129471	.8913265	169.9673

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	13.81748	37.36702	1.196208	.0689656	.6873765	1.031279	2.365487
Stddev	.10443	.11396	.009255	.0006211	.4020434	.002571	.012002
%RSD	.7557667	.3049776	.7737255	.9005418	58.48954	.2492662	.5073890
#1	13.71746	37.27073	1.191008	.0682589	.2247923	1.029723	2.376904
#2	13.80917	37.33750	1.190723	.0692133	.9525912	1.034246	2.352975
#3	13.92582	37.49284	1.206894	.0694245	.8847461	1.029868	2.366582

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	8.966198	8.335409	-.458427	.0061559	2.653700	5.928839	.3341879
Stddev	.135207	.070221	.003204	.0001773	.029956	.063632	.0021489
%RSD	1.507960	.8424394	.6989479	2.879740	1.128828	1.073259	.6430261
#1	8.845989	8.293933	-.454753	.0063462	2.639808	5.855824	.3321357
#2	8.940029	8.295808	-.460641	.0061258	2.633213	5.958238	.3340060
#3	9.112577	8.416486	-.459887	.0059955	2.688080	5.972456	.3364220

Reviewed By:kareem
On:12/13/2024 7:24:03 PM
Inst Id :P5

Sample Name: P5042-03 Acquired: 12/10/2024 19:00:46 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKB0S Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.6181173	.9176298	.0313650
Stddev	.0032964	.0077689	.0015543
%RSD	.5332974	.8466299	4.955488
#1	.6144889	.9098644	.0295721
#2	.6189353	.9176226	.0323334
#3	.6209277	.9254023	.0321893

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2970.309	32696.43	3281.037	2323.296	3746.581
Stddev	14.640	31.43	33.976	2.406	24.874
%RSD	.4928839	.0961322	1.035514	.1035758	.6639088
#1	2980.398	32679.30	3320.197	2325.489	3757.446
#2	2977.011	32732.70	3263.514	2323.679	3764.175
#3	2953.517	32677.28	3259.401	2320.722	3718.123

Reviewed By:kareem
On:12/13/2024 7:24:03 PM
Inst Id :P5

Sample Name: P5043-01 Acquired: 12/10/2024 19:04:34 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKM2 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0468702	-.002836	.2504523	.0018773	.0013268	70.07477	.6247701
Stddev	.0031431	.002183	.0007550	.0042499	.0003088	.18127	.0031678
%RSD	6.705963	76.96988	.3014393	226.3877	23.27412	.2586819	.5070369
#1	.0450814	-.001039	.2512597	-.002785	.0011059	70.25900	.6278076
#2	.0504994	-.005266	.2503334	.005535	.0016796	69.89661	.6214864
#3	.0450298	-.002204	.2497638	.002881	.0011948	70.06870	.6250162

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0060278	.0023003	37.35375	.0827810	.0746474	.1270341	150.5426
Stddev	.0001490	.0001089	.16095	.0012778	.0004766	.0033214	.6672
%RSD	2.472310	4.734375	.4308888	1.543562	.6384178	2.614562	.4432188
#1	.0060283	.0022122	37.49809	.0825036	.0744427	.1248261	151.2654
#2	.0058785	.0022667	37.18019	.0841747	.0743073	.1308538	149.9502
#3	.0061766	.0024221	37.38296	.0816648	.0751921	.1254223	150.4122

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.297124	17.80525	.1025876	-.013897	.7169306	.1623280	.3244434
Stddev	.012362	.02163	.0005502	.000313	.4560405	.0051725	.0096491
%RSD	.3749233	.1214818	.5363207	2.254127	63.61013	3.186441	2.974061
#1	3.310312	17.78029	.1025591	-.013990	.7477897	.1655011	.3354787
#2	3.285800	17.81854	.1020521	-.013547	1.156758	.1563593	.3175949
#3	3.295260	17.81693	.1031514	-.014152	.246244	.1651236	.3202565

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.466233	3.385891	-.427399	.0023911	.8940549	6.137211	.0125612
Stddev	.084290	.017726	.007688	.0001440	.0094077	.019433	.0006883
%RSD	3.417774	.5235360	1.798725	6.023090	1.052250	.3166503	5.479513
#1	2.372343	3.376551	-.424442	.0024349	.8890833	6.136175	.0131544
#2	2.490965	3.374788	-.436127	.0022303	.8881761	6.157142	.0127228
#3	2.535390	3.406334	-.421630	.0025082	.9049054	6.118316	.0118065

Reviewed By:kareem
On:12/13/2024 7:24:03 PM
Inst Id :P5

Sample Name: P5043-01 Acquired: 12/10/2024 19:04:34 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKM2 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.7646850	-.057937	.0520618
Stddev	.0074394	.000524	.0019422
%RSD	.9728670	.9045836	3.730543
#1	.7661187	-.058388	.0513013
#2	.7566331	-.058060	.0542691
#3	.7713031	-.057362	.0506149

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2861.773	31449.88	3057.875	2225.932	3868.589
Stddev	12.132	126.04	12.109	3.874	19.559
%RSD	.4239495	.4007617	.3959782	.1740310	.5055768
#1	2863.148	31407.27	3048.544	2221.770	3872.526
#2	2873.159	31350.67	3053.523	2229.433	3885.880
#3	2849.011	31591.70	3071.558	2226.594	3847.361

Reviewed By:kareem
On:12/13/2024 7:24:03 PM
Inst Id :P5

Sample Name: P5043-02 Acquired: 12/10/2024 19:08:25 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKM2D Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0467148	-.001754	.2496880	-.002476	.0021646	70.03459	.6276288
Stddev	.0024427	.000491	.0017528	.003028	.0007055	.14002	.0012399
%RSD	5.229007	28.01092	.7019970	122.3175	32.59332	.1999231	.1975479
#1	.0440390	-.001196	.2487697	-.004970	.0015148	69.87487	.6262121
#2	.0472799	-.002122	.2485852	.000894	.0020640	70.13617	.6281587
#3	.0488254	-.001944	.2517092	-.003350	.0029151	70.09273	.6285157

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0060370	.0023366	37.23224	.0837481	.0747448	.1305523	150.7711
Stddev	.0001517	.0001237	.05859	.0011437	.0001461	.0078955	.3703
%RSD	2.513177	5.294022	.1573697	1.365679	.1954835	6.047786	.2456259
#1	.0059298	.0023387	37.20082	.0824374	.0748839	.1221445	150.3435
#2	.0059707	.0022119	37.29984	.0845440	.0747578	.1378092	150.9890
#3	.0062106	.0024592	37.19606	.0842627	.0745926	.1317031	150.9808

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.294371	17.71818	.1032219	-.013207	1.040113	.1590573	.3176123
Stddev	.011895	.02203	.0002114	.000567	.112743	.0104113	.0051212
%RSD	.3610657	.1243504	.2047581	4.294430	10.83945	6.545624	1.612407
#1	3.290918	17.70877	.1030610	-.013541	1.169273	.1470799	.3163768
#2	3.307611	17.74336	.1031433	-.012552	.989648	.1641506	.3232382
#3	3.284585	17.70242	.1034612	-.013527	.961418	.1659415	.3132218

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.467511	3.412450	-.424268	.0021655	.8982200	6.118127	.0141735
Stddev	.103507	.022934	.002709	.0001713	.0043514	.023889	.0001916
%RSD	4.194793	.6720706	.6384593	7.910969	.4844435	.3904621	1.351606
#1	2.568630	3.401798	-.421864	.0020743	.9008790	6.120779	.0142926
#2	2.361771	3.396778	-.423738	.0020590	.8931984	6.093023	.0142754
#3	2.472131	3.438773	-.427203	.0023631	.9005827	6.140580	.0139525

Reviewed By:kareem
On:12/13/2024 7:24:03 PM
Inst Id :P5

Sample Name: P5043-02 Acquired: 12/10/2024 19:08:25 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKM2D Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.7591919	-.057967	.0494344
Stddev	.0074457	.000426	.0036033
%RSD	.9807377	.7348833	7.289032
#1	.7560149	-.057503	.0535875
#2	.7676991	-.058059	.0475758
#3	.7538617	-.058340	.0471399

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2875.936	31717.68	3088.501	2245.841	3873.752
Stddev	7.600	284.46	6.310	14.547	12.244
%RSD	.2642514	.8968561	.2043155	.6477428	.3160733
#1	2877.114	31959.94	3088.752	2254.992	3874.715
#2	2882.878	31404.45	3082.069	2229.067	3885.487
#3	2867.816	31788.64	3094.682	2253.465	3861.056

Reviewed By:kareem
On:12/13/2024 7:24:03 PM
Inst Id :P5

Sample Name: P5043-01LX5 Acquired: 12/10/2024 19:12:17 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKM2L Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0108586	-.001458	.0507955	.0022038	.0005621	15.62458	.1400574
Stddev	.0046896	.001805	.0018775	.0010499	.0018358	.05686	.0020346
%RSD	43.18763	123.7882	3.696210	47.64220	326.6292	.3639123	1.452672
#1	.0076725	-.001785	.0495517	.0020094	-.000176	15.58372	.1390412
#2	.0162436	.000488	.0498796	.0033374	-.000790	15.68951	.1423999
#3	.0086597	-.003077	.0529551	.0012646	.002652	15.60050	.1387312

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0013235	.0005125	8.392441	.0180676	.0170827	.0275839	33.71058
Stddev	.0000310	.0000192	.037117	.0011014	.0001237	.0022234	.08290
%RSD	2.340339	3.743545	.4422621	6.096129	.7240222	8.060497	.2459106
#1	.0013033	.0005337	8.435284	.0180973	.0171528	.0300077	33.69930
#2	.0013592	.0005075	8.370034	.0169516	.0171554	.0271051	33.79854
#3	.0013081	.0004963	8.372004	.0191538	.0169399	.0256389	33.63390

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7469713	3.958011	.0203066	-.003619	.2161651	.0386551	.0698225
Stddev	.0036190	.086919	.0001180	.000167	.2866416	.0030342	.0048767
%RSD	.4844929	2.196017	.5811117	4.621929	132.6031	7.849360	6.984379
#1	.7494726	4.057779	.0202189	-.003557	-.062271	.0352381	.0733776
#2	.7428215	3.917593	.0202601	-.003491	.510362	.0396931	.0718269
#3	.7486197	3.898661	.0204408	-.003808	.200404	.0410340	.0642630

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1065655	.6975489	-.101973	-.000233	.1818661	1.423573	-.005961
Stddev	.1574021	.0020302	.001603	.000293	.0034128	.013114	.000820
%RSD	147.7046	.2910548	1.572324	125.6204	1.876561	.9211734	13.75752
#1	.0061630	.6978177	-.103631	-.000471	.1794361	1.429265	-.005056
#2	.2879724	.6953976	-.101858	-.000323	.1857679	1.432880	-.006172
#3	.0255610	.6994314	-.100430	.000094	.1803944	1.408576	-.006654

Reviewed By:kareem
On:12/13/2024 7:24:03 PM
Inst Id :P5

Sample Name: P5043-01LX5 Acquired: 12/10/2024 19:12:17 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKM2L Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.1729576	-.012775	-.020273
Stddev	.0032859	.000202	.002436
%RSD	1.899812	1.584319	12.01670
#1	.1695033	-.012764	-.022890
#2	.1733255	-.012579	-.019858
#3	.1760441	-.012983	-.018071

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2613.850	28979.69	2799.739	2052.676	3930.678
Stddev	7.963	291.59	20.765	24.980	10.851
%RSD	.3046618	1.006177	.7416635	1.216966	.2760592
#1	2606.331	28876.55	2793.180	2049.850	3921.785
#2	2622.194	29308.83	2783.047	2078.949	3942.769
#3	2613.025	28753.69	2822.992	2029.228	3927.481

Reviewed By:kareem
On:12/13/2024 7:24:03 PM
Inst Id :P5

Sample Name: P5043-03 Acquired: 12/10/2024 19:16:14 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKM2S Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1312930	.0891965	.2894326	.1529458	.1608943	72.97117	4.315334
Stddev	.0010919	.0018836	.0015882	.0020275	.0023773	.24265	.014711
%RSD	.8316584	2.111769	.5487259	1.325614	1.477543	.3325253	.3409120
#1	.1324403	.0901015	.2908303	.1532199	.1595382	72.76570	4.303869
#2	.1311721	.0870312	.2897620	.1507951	.1636393	73.23887	4.331922
#3	.1302666	.0904568	.2877055	.1548222	.1595055	72.90895	4.310213

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0977499	.0968166	37.38537	.4753820	1.073400	.5666482	151.9548
Stddev	.0008757	.0006294	.15908	.0016524	.004504	.0050811	.5119
%RSD	.8958856	.6500565	.4255200	.3475920	.4195606	.8966975	.3368732
#1	.0973748	.0974850	37.24617	.4766572	1.078005	.5719976	151.6345
#2	.0971242	.0967296	37.55877	.4735153	1.073188	.5660606	152.5451
#3	.0987507	.0962353	37.35117	.4759736	1.069006	.5618865	151.6847

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.249494	17.67094	1.122833	.0703476	.5334384	1.087667	1.102634
Stddev	.023977	.07158	.005945	.0002216	.2096579	.009853	.011752
%RSD	.5642391	.4050573	.5294875	.3150233	39.30311	.9058827	1.065800
#1	4.241762	17.60674	1.128538	.0704358	.3912619	1.086755	1.105867
#2	4.276383	17.74812	1.123287	.0705115	.7742199	1.097945	1.112432
#3	4.230336	17.65796	1.116673	.0700954	.4348334	1.078302	1.089605

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.397137	3.433001	-.442048	.0019320	.9269723	6.161765	.0134899
Stddev	.170859	.019624	.003149	.0000741	.0027161	.029936	.0016774
%RSD	7.127610	.5716269	.7124052	3.837365	.2930087	.4858306	12.43437
#1	2.218380	3.452292	-.445244	.0019764	.9298730	6.159772	.0140624
#2	2.558814	3.433653	-.441952	.0019732	.9265548	6.132875	.0148061
#3	2.414217	3.413060	-.438948	.0018464	.9244892	6.192647	.0116013

Reviewed By:kareem
On:12/13/2024 7:24:03 PM
Inst Id :P5

Sample Name: P5043-03 Acquired: 12/10/2024 19:16:14 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKM2S Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.7636629	-.058845	.0485860
Stddev	.0087466	.000444	.0019226
%RSD	1.145345	.7541782	3.957171
#1	.7584118	-.058439	.0484767
#2	.7737598	-.058778	.0467203
#3	.7588169	-.059319	.0505609

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2890.268	31948.82	3114.283	2278.155	3889.673
Stddev	10.977	91.89	10.120	10.370	16.298
%RSD	.3797932	.2876019	.3249635	.4551965	.4190008
#1	2879.755	31842.83	3110.625	2268.385	3871.368
#2	2901.656	32005.97	3125.724	2289.036	3902.610
#3	2889.392	31997.66	3106.500	2277.044	3895.040

Reviewed By:kareem
On:12/13/2024 7:24:03 PM
Inst Id :P5

Sample Name: P4977-03 Acquired: 12/10/2024 19:20:03 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME29F8 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0138540	.0122074	.0328907	-.037477	-.017691	14.20222
Stddev	.0017275	.0016874	.0013319	.003650	.000201	.17264
%RSD	12.46944	13.82258	4.049467	9.738504	1.135882	1.215574
#1	.0118888	.0116933	.0343988	-.038793	-.017706	14.30954
#2	.0151331	.0140921	.0323982	-.033352	-.017483	14.29405
#3	.0145400	.0108369	.0318753	-.040286	-.017884	14.00307

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0649781	.0013763	.0009147	F 1296.241	.0393410	.0659914
Stddev	.0017659	.0001342	.0000303	18.561	.0005649	.0006834
%RSD	2.717656	9.750539	3.316009	1.431913	1.435892	1.035576
#1	.0666441	.0013887	.0009408	1308.604	.0388784	.0666070
#2	.0651632	.0015039	.0008814	1305.223	.0399706	.0652560
#3	.0631269	.0012363	.0009221	1274.898	.0391740	.0661113

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0486635	41.86525	2.387758	191.1119	.0730500	-.003593
Stddev	.0094139	.52253	.031352	2.4529	.0004896	.001951
%RSD	19.34488	1.248125	1.313030	1.283503	.6702653	54.29680
#1	.0462483	42.25641	2.404106	191.8862	.0728470	-.005803
#2	.0406925	42.06752	2.407556	193.0842	.0726945	-.002867
#3	.0590497	41.27182	2.351610	188.3652	.0736085	-.002109

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6119801	.0621205	.1395470	.7332986	2.028418	-.092208
Stddev	.2534865	.0044583	.0024535	.0433736	.007547	.003566
%RSD	41.42072	7.176814	1.758212	5.914862	.3720479	3.867078
#1	.3575348	.0655817	.1423801	.7808112	2.032569	-.093156
#2	.6139088	.0570897	.1381233	.7232604	2.032979	-.088264
#3	.8644968	.0636902	.1381375	.6958243	2.019707	-.095204

Reviewed By:kareem
On:12/13/2024 7:24:03 PM
Inst Id :P5

Sample Name: P4977-03 Acquired: 12/10/2024 19:20:03 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME29F8 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0045780	2.819679	1.859659	.0357120	.4522572	1.042790
Stddev	.0008396	.011336	.015799	.0028119	.0075886	.015057
%RSD	18.33906	.4020144	.8495628	7.873895	1.677929	1.443910
#1	.0039565	2.828230	1.853576	.0387079	.4569943	1.051380
#2	.0042444	2.823987	1.877596	.0331299	.4562727	1.051587
#3	.0055330	2.806821	1.847807	.0352983	.4435046	1.025405

Elem	Li6707
Units	ppm
Avg	-.026160
Stddev	.002283
%RSD	8.726485
#1	-.023538
#2	-.027705
#3	-.027237

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2419.958	26351.86	2786.971	1876.958	3232.122
Stddev	5.697	192.62	19.547	12.617	13.396
%RSD	.2354350	.7309570	.7013658	.6722123	.4144497
#1	2414.512	26138.86	2777.601	1865.653	3217.682
#2	2419.485	26513.83	2773.874	1890.569	3234.541
#3	2425.877	26402.88	2809.439	1874.651	3244.144

Reviewed By:kareem
On:12/13/2024 7:24:03 PM
Inst Id :P5

Sample Name: P4977-04 Acquired: 12/10/2024 19:23:55 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME29F8D Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0086500	.0120320	.0320997	-.033496	-.018392	14.29031
Stddev	.0031408	.0011305	.0004921	.003073	.001437	.07181
%RSD	36.30982	9.395885	1.532908	9.172698	7.812466	.5024993
#1	.0116589	.0113645	.0320521	-.030104	-.017606	14.35284
#2	.0053921	.0133373	.0316332	-.036091	-.017520	14.30622
#3	.0088991	.0113943	.0326139	-.034294	-.020050	14.21189

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0646136	.0014580	.0008677	F 1298.225	.0391374	.0664910
Stddev	.0005551	.0000415	.0000575	5.076	.0007132	.0006278
%RSD	.8591475	2.843831	6.625906	.3910134	1.822384	.9441153
#1	.0639727	.0015038	.0009173	1300.324	.0399561	.0658664
#2	.0649209	.0014230	.0008047	1301.915	.0386507	.0664848
#3	.0649471	.0014472	.0008812	1292.436	.0388054	.0671219

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0529879	41.96544	2.401117	193.4014	.0716415	-.004520
Stddev	.0021220	.05856	.010759	.6977	.0006375	.000395
%RSD	4.004755	.1395316	.4480771	.3607302	.8898026	8.742314
#1	.0536149	42.00922	2.406999	193.9314	.0716441	-.004225
#2	.0547258	41.98818	2.407653	193.6617	.0710028	-.004368
#3	.0506230	41.89893	2.388700	192.6110	.0722777	-.004969

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7702172	.0563929	.1310328	.9476001	2.002600	-.086222
Stddev	.2680462	.0078771	.0041262	.1651489	.008275	.000614
%RSD	34.80138	13.96819	3.148965	17.42812	.4132027	.7124039
#1	.4616336	.0474716	.1352814	1.052446	1.994018	-.085767
#2	.9037511	.0593182	.1307759	1.033125	2.003252	-.086921
#3	.9452669	.0623887	.1270410	.757229	2.010529	-.085979

Reviewed By:kareem
On:12/13/2024 7:24:03 PM
Inst Id :P5

Sample Name: P4977-04 Acquired: 12/10/2024 19:23:55 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME29F8D Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0044236	2.785631	1.870576	.0353324	.4587017	1.048950
Stddev	.0000991	.017467	.009321	.0003133	.0069787	.002904
%RSD	2.240649	.6270536	.4982806	.8867385	1.521409	.2768760
#1	.0044731	2.765587	1.875380	.0353728	.4598597	1.050252
#2	.0043095	2.797603	1.876514	.0350009	.4650289	1.050975
#3	.0044883	2.793702	1.859833	.0356236	.4512163	1.045622

Elem	Li6707
Units	ppm
Avg	-.025368
Stddev	.001537
%RSD	6.060621
#1	-.026546
#2	-.025928
#3	-.023629

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2405.551	26166.17	2729.981	1859.511	3224.383
Stddev	3.019	106.51	23.387	8.760	9.264
%RSD	.1254861	.4070653	.8566729	.4710664	.2873020
#1	2404.301	26086.46	2710.170	1849.426	3231.944
#2	2408.994	26124.90	2723.995	1865.216	3227.155
#3	2403.358	26287.14	2755.780	1863.893	3214.050

Reviewed By:kareem
On:12/13/2024 7:24:03 PM
Inst Id :P5

Sample Name: P4977-03LX5 Acquired: 12/10/2024 19:27:47 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME29F8L Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0028671	.0079843	.0037898	-.020107	-.012362	2.899261	.0130660
Stddev	.0016478	.0011916	.0010555	.001722	.004092	.027042	.0017794
%RSD	57.47361	14.92396	27.85155	8.566080	33.10395	.9327233	13.61884
#1	.0045171	.0081962	.0033278	-.021139	-.012146	2.909738	.0113450
#2	.0028627	.0067010	.0030440	-.018118	-.008382	2.919497	.0148986
#3	.0012215	.0090557	.0049975	-.021063	-.016558	2.868548	.0129544

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002742	.0002201	272.0228	.0078855	.0349498	.0313635	8.947834
Stddev	.0000930	.0000287	1.7995	.0011278	.0006425	.0012593	.111933
%RSD	33.92048	13.04228	.6615197	14.30203	1.838224	4.015119	1.250955
#1	.0001775	.0002274	273.5614	.0091372	.0350273	.0301414	9.049587
#2	.0002822	.0002445	272.4630	.0075711	.0355501	.0326570	8.965979
#3	.0003630	.0001885	270.0441	.0069483	.0342722	.0312921	8.827937

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5065541	40.56664	.0141856	-.000795	.1634799	.0093692	.0361974
Stddev	.0040413	.28545	.0003321	.000611	.3709517	.0012023	.0036632
%RSD	.7978040	.7036519	2.340924	76.80176	226.9097	12.83224	10.11994
#1	.5099851	40.85340	.0145071	-.001250	.5827314	.0105520	.0394450
#2	.5075778	40.56401	.0142058	-.000101	-.122148	.0081483	.0322266
#3	.5020994	40.28252	.0138438	-.001034	.029856	.0094074	.0369205

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.139623	.3792637	-.019776	-.000781	.5189821	.3914192	-.002669
Stddev	.086421	.0007413	.000847	.000396	.0041879	.0005903	.000405
%RSD	61.89600	.1954568	4.280677	50.70920	.8069485	.1508091	15.18862
#1	-.136649	.3800710	-.018802	-.000324	.5144996	.3911482	-.002939
#2	-.227493	.3786136	-.020196	-.001031	.5196519	.3920963	-.002203
#3	-.054727	.3791064	-.020332	-.000988	.5227947	.3910130	-.002866

Reviewed By:kareem
On:12/13/2024 7:24:03 PM
Inst Id :P5

Sample Name: P4977-03LX5 Acquired: 12/10/2024 19:27:47 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME29F8L Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.0945555	.2148845	-.037308
Stddev	.0024405	.0016491	.003828
%RSD	2.581063	.7674359	10.26010
#1	.0973698	.2156094	-.035677
#2	.0932761	.2160470	-.034566
#3	.0930208	.2129972	-.041681

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2456.756	26879.14	2688.953	1908.141	3610.063
Stddev	5.999	131.89	7.888	12.474	12.082
%RSD	.2441969	.4906729	.2933602	.6537072	.3346783
#1	2449.830	26809.48	2684.490	1906.937	3596.433
#2	2460.099	27031.26	2684.308	1921.172	3619.456
#3	2460.339	26796.70	2698.061	1896.312	3614.300

Reviewed By:kareem
On:12/13/2024 7:24:03 PM
Inst Id :P5

Sample Name: P4977-05 Acquired: 12/10/2024 19:31:47 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME29F8S Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0953931	.1048117	.0717050	.1346839	.1643813	18.09933
Stddev	.0015185	.0029982	.0036049	.0080156	.0059456	.07626
%RSD	1.591873	2.860559	5.027374	5.951391	3.616982	.4213142
#1	.0945407	.1051849	.0697461	.1341974	.1638043	18.07030
#2	.0944922	.1076059	.0758652	.1429316	.1705944	18.04184
#3	.0971463	.1016444	.0695038	.1269227	.1587452	18.18583

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.003864	.1010746	.0992275	F 1285.531	.4451658	1.090208
Stddev	.007830	.0004166	.0062730	1.640	.0031568	.069191
%RSD	.1955726	.4122085	6.321872	.1275982	.7091230	6.346604
#1	4.000335	.1013605	.0977139	1284.796	.4475955	1.077211
#2	3.998420	.1012667	.1061189	1284.386	.4463042	1.164976
#3	4.012838	.1005966	.0938498	1287.410	.4415977	1.028437

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5192062	43.68773	3.317240	189.0780	1.101692	.0901801
Stddev	.0057488	.14154	.013728	.0810	.072001	.0010649
%RSD	1.107236	.3239830	.4138242	.0428313	6.535483	1.180894
#1	.5205707	43.54443	3.303924	189.1479	1.085614	.0889505
#2	.5128979	43.69132	3.331345	189.0969	1.180373	.0908012
#3	.5241501	43.82744	3.316450	188.9893	1.039090	.0907887

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3904774	1.062655	.9957305	.9366562	2.036975	-.089005
Stddev	.6174638	.001744	.0111885	.3665443	.133602	.001235
%RSD	158.1305	.1641127	1.123649	39.13328	6.558823	1.387783
#1	-.303687	1.063222	1.002478	.7601443	2.012950	-.087978
#2	.878497	1.064044	1.001898	1.358060	2.180959	-.090375
#3	.596622	1.060698	.982815	.691765	1.917016	-.088662

Reviewed By:kareem
On:12/13/2024 7:24:03 PM
Inst Id :P5

Sample Name: P4977-05 Acquired: 12/10/2024 19:31:47 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME29F8S Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0045718	2.867857	1.969741	.0385081	.4577228	1.027613
Stddev	.0002357	.180153	.012974	.0022260	.0017377	.001163
%RSD	5.155181	6.281802	.6586439	5.780521	.3796328	.1132121
#1	.0043474	2.822129	1.973506	.0392401	.4594505	1.026451
#2	.0045507	3.066468	1.980415	.0402760	.4577426	1.028778
#3	.0048173	2.714975	1.955301	.0360084	.4559753	1.027611

Elem	Li6707
Units	ppm
Avg	-.029137
Stddev	.001706
%RSD	5.854324
#1	-.027625
#2	-.030986
#3	-.028800

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2400.234	26561.20	2761.474	1883.737	3208.356
Stddev	121.652	58.96	4.779	16.718	181.039
%RSD	5.068320	.2219837	.1730702	.8874659	5.642728
#1	2422.296	26519.03	2756.235	1871.379	3237.647
#2	2269.061	26535.99	2762.593	1877.073	3014.458
#3	2509.344	26628.57	2765.595	1902.758	3372.963

Reviewed By:kareem
On:12/13/2024 7:24:03 PM
Inst Id :P5

Sample Name: P4976-09 Acquired: 12/10/2024 19:35:35 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME29E4D Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1392199	.0093157	.0373771	-.037828	-.015700	19.00518
Stddev	.0022868	.0017875	.0018947	.004583	.001838	.20222
%RSD	1.642603	19.18824	5.069050	12.11588	11.70924	1.064024
#1	.1385691	.0072539	.0357747	-.039965	-.017404	19.08505
#2	.1373290	.0102627	.0394683	-.032566	-.013751	18.77523
#3	.1417615	.0104304	.0368883	-.040952	-.015944	19.15528

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0893084	.0017511	.0010623	F 1212.068	.0504120	.0791808
Stddev	.0013535	.0001137	.0000423	14.348	.0006177	.0001254
%RSD	1.515542	6.491889	3.977931	1.183801	1.225363	.1583639
#1	.0896525	.0018730	.0011101	1217.172	.0500151	.0791108
#2	.0878160	.0016480	.0010300	1195.865	.0511237	.0791060
#3	.0904566	.0017322	.0010468	1223.166	.0500971	.0793255

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0710250	61.89210	2.599354	183.0021	.0920637	-.006246
Stddev	.0034643	.68861	.036410	2.4549	.0003150	.000912
%RSD	4.877598	1.112591	1.400724	1.341458	.3421622	14.60814
#1	.0723682	62.08657	2.614571	184.3675	.0917227	-.007296
#2	.0736167	61.12718	2.557804	180.1680	.0923437	-.005650
#3	.0670903	62.46256	2.625687	184.4707	.0921249	-.005792

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5537688	.0635562	.1803677	.9710127	1.857735	-.149678
Stddev	.5633796	.0084901	.0031118	.0751315	.003959	.001071
%RSD	101.7355	13.35832	1.725256	7.737438	.2131044	.7155910
#1	.0944023	.0612909	.1771772	1.057401	1.862223	-.150581
#2	1.182367	.0564286	.1805316	.934717	1.856244	-.149958
#3	.384537	.0729492	.1833943	.920921	1.854738	-.148495

Reviewed By:kareem
On:12/13/2024 7:24:03 PM
Inst Id :P5

Sample Name: P4976-09 Acquired: 12/10/2024 19:35:35 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME29E4D Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0131714	14.60892	2.227650	.0041016	.7002656	1.068431
Stddev	.0003380	.06204	.027326	.0002746	.0088778	.015922
%RSD	2.566233	.4246618	1.226672	6.694788	1.267779	1.490259
#1	.0134173	14.67051	2.251919	.0042931	.7074711	1.073323
#2	.0127860	14.54644	2.198052	.0042247	.6903481	1.050637
#3	.0133108	14.60982	2.232979	.0037870	.7029777	1.081333

Elem	Li6707
Units	ppm
Avg	-.022022
Stddev	.004115
%RSD	18.68359
#1	-.018938
#2	-.020435
#3	-.026694

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2435.940	26559.29	2793.445	1895.680	3248.364
Stddev	15.333	37.93	30.440	5.034	19.996
%RSD	.6294577	.1428265	1.089689	.2655492	.6155668
#1	2418.625	26590.80	2775.047	1893.345	3225.622
#2	2441.397	26569.89	2828.581	1901.458	3256.283
#3	2447.799	26517.19	2776.707	1892.238	3263.188

Reviewed By:kareem
On:12/13/2024 7:24:03 PM
Inst Id :P5

Sample Name: P4976-08LX5 Acquired: 12/10/2024 19:39:26 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME29E4L Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0271997	.0095381	.0054718	-.021720	-.014047	3.930555	.0177175
Stddev	.0004531	.0020508	.0008835	.002614	.001223	.044991	.0016462
%RSD	1.666018	21.50131	16.14712	12.03461	8.706200	1.144636	9.291431
#1	.0274666	.0087407	.0054730	-.023049	-.012990	3.958310	.0161447
#2	.0266765	.0118679	.0063548	-.023403	-.015387	3.878646	.0175794
#3	.0274560	.0080058	.0045877	-.018709	-.013766	3.954709	.0194284

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0004014	.0002545	255.2171	.0108906	.0365831	.0156652	13.22677
Stddev	.0000180	.0000363	2.4736	.0004460	.0003948	.0050020	.14107
%RSD	4.475709	14.25539	.9692157	4.095489	1.079224	31.93090	1.066581
#1	.0004196	.0002871	256.4484	.0106440	.0361583	.0163141	13.28814
#2	.0003837	.0002610	252.3695	.0114055	.0366523	.0103704	13.06540
#3	.0004007	.0002154	256.8335	.0106223	.0369387	.0203111	13.32676

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5539006	38.72186	.0177013	-.001231	-.299703	.0141863	.0396995
Stddev	.0058126	.44593	.0004787	.001067	.578087	.0084096	.0016995
%RSD	1.049392	1.151619	2.704468	86.73947	192.8867	59.28020	4.280911
#1	.5582569	38.98114	.0171501	-.002380	.312051	.0238386	.0395366
#2	.5473005	38.20695	.0179406	-.000271	-.374275	.0084403	.0414745
#3	.5561443	38.97748	.0180132	-.001040	-.836885	.0102799	.0380872

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.187912	.3468666	-.035053	.0005316	2.702554	.5547748	-.008374
Stddev	.138274	.0020003	.001232	.0001848	.010360	.0013667	.000592
%RSD	73.58461	.5766760	3.514015	34.75415	.3833260	.2463610	7.073884
#1	-.267659	.3449184	-.035035	.0007032	2.690616	.5551051	-.008927
#2	-.267831	.3489152	-.036294	.0005556	2.707864	.5559460	-.008445
#3	-.028247	.3467660	-.033831	.0003360	2.709182	.5532731	-.007749

Reviewed By:kareem
On:12/13/2024 7:24:03 PM
Inst Id :P5

Sample Name: P4976-08LX5 Acquired: 12/10/2024 19:39:26 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME29E4L Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.1502225	.2213202	-.044604
Stddev	.0032046	.0018057	.003432
%RSD	2.133260	.8158564	7.693187
#1	.1521457	.2220801	-.043004
#2	.1465231	.2192587	-.048544
#3	.1519987	.2226216	-.042265

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2486.079	27252.27	2742.320	1935.509	3643.266
Stddev	16.682	228.28	15.613	13.279	25.791
%RSD	.6710306	.8376548	.5693428	.6860491	.7079123
#1	2502.359	27291.48	2739.508	1936.825	3669.275
#2	2486.857	27458.40	2759.148	1948.081	3642.824
#3	2469.021	27006.92	2728.304	1921.622	3617.699

Reviewed By:kareem
On:12/13/2024 7:24:03 PM
Inst Id :P5

Sample Name: P4976-10 Acquired: 12/10/2024 19:43:23 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME29E4S Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2156361	.1021860	.0795526	.1308681	.1600943	22.90204
Stddev	.0023484	.0014030	.0024362	.0042514	.0030968	.19884
%RSD	1.089041	1.373011	3.062347	3.248611	1.934364	.8682239
#1	.2172839	.1033811	.0779464	.1309319	.1568841	23.12685
#2	.2129472	.1025357	.0823557	.1265852	.1630637	22.83006
#3	.2166773	.1006412	.0783557	.1350873	.1603352	22.74921

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.032282	.1019428	.0967985	F 1203.479	.4680124	1.075608
Stddev	.022877	.0004756	.0006863	7.537	.0101362	.008014
%RSD	.5673390	.4665630	.7089716	.6262759	2.165791	.7450647
#1	4.057363	.1024415	.0961497	1211.545	.4624293	1.069836
#2	4.026922	.1014942	.0967289	1202.275	.4618952	1.072230
#3	4.012561	.1018925	.0975169	1196.616	.4797125	1.084758

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5286961	63.32057	3.572638	183.0764	1.095572	.0890700
Stddev	.0017038	.42166	.026222	1.2507	.008367	.0012199
%RSD	.3222706	.6659110	.7339669	.6831316	.7636861	1.369553
#1	.5271331	63.79466	3.592209	184.4235	1.087838	.0881404
#2	.5284429	63.17954	3.582861	182.8535	1.094424	.0886183
#3	.5305124	62.98750	3.542845	181.9522	1.104453	.0904513

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.249673	1.075830	1.059341	.9759569	1.811119	-.155561
Stddev	.283825	.009638	.022004	.0154624	.020969	.001551
%RSD	22.71197	.8958450	2.077100	1.584329	1.157792	.9970905
#1	1.576232	1.081466	1.050170	.9586422	1.800136	-.157340
#2	1.062392	1.081322	1.043406	.9808410	1.797922	-.154852
#3	1.110394	1.064701	1.084446	.9883874	1.835298	-.154491

Reviewed By:kareem
On:12/13/2024 7:24:03 PM
Inst Id :P5

Sample Name: P4976-10 Acquired: 12/10/2024 19:43:23 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME29E4S Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0129732	14.11294	2.469358	.0052995	.7083326	1.062306
Stddev	.0002777	.07169	.002592	.0004695	.0058738	.006861
%RSD	2.140636	.5079843	.1049708	8.859124	.8292483	.6458462
#1	.0132594	14.05673	2.467802	.0051969	.7148946	1.068191
#2	.0129553	14.08842	2.472351	.0048898	.7065375	1.063957
#3	.0127048	14.19368	2.467922	.0058118	.7035659	1.054770

Elem	Li6707
Units	ppm
Avg	-.022993
Stddev	.003628
%RSD	15.77903
#1	-.023867
#2	-.019007
#3	-.026104

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2442.782	26035.18	2745.866	1852.264	3267.087
Stddev	16.424	457.07	12.635	34.517	20.720
%RSD	.6723371	1.755600	.4601323	1.863514	.6342091
#1	2458.953	26249.18	2731.795	1867.083	3289.432
#2	2443.274	26346.00	2749.562	1876.898	3263.318
#3	2426.117	25510.37	2756.240	1812.812	3248.509

Reviewed By:kareem
On:12/13/2024 7:24:03 PM
Inst Id :P5

Sample Name: P5040-01 Acquired: 12/10/2024 19:47:11 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKD6 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0247386	.0076033	.2486966	-.018645	-.011294	53.50545	.8876287
Stddev	.0024365	.0032107	.0010958	.004747	.001588	.56028	.0108418
%RSD	9.848812	42.22781	.4406059	25.46024	14.05765	1.047153	1.221432
#1	.0226172	.0039136	.2498760	-.023445	-.009502	53.13623	.8846709
#2	.0241989	.0091350	.2485038	-.018539	-.011858	54.15014	.8996424
#3	.0273996	.0097614	.2477101	-.013953	-.012524	53.22998	.8785727

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0040868	.0030742	568.8245	.0852587	.1002602	.1534119	132.4700
Stddev	.0001680	.0000408	5.9765	.0021060	.0001826	.0038113	1.4016
%RSD	4.109938	1.325597	1.050681	2.470134	.1821097	2.484345	1.058077
#1	.0039767	.0030925	565.9645	.0828298	.1000675	.1498527	132.0756
#2	.0042801	.0030275	575.6936	.0863692	.1004307	.1574331	134.0265
#3	.0040037	.0031026	564.8153	.0865771	.1002824	.1529498	131.3078

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.741337	132.5268	.1538312	-.011679	1.050359	.1482565	.4260388
Stddev	.069099	1.1151	.0018995	.000930	.695771	.0059319	.0129188
%RSD	.8925924	.8414454	1.234791	7.959327	66.24129	4.001082	3.032305
#1	7.703128	131.9785	.1546533	-.010644	.470660	.1414091	.4137065
#2	7.821102	133.8100	.1516591	-.011950	1.821934	.1518261	.4394734
#3	7.699782	131.7921	.1551812	-.012442	.858482	.1515344	.4249364

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.696525	8.564021	-.342769	.0021918	1.152232	3.678304	.0452870
Stddev	.210099	.037371	.006745	.0003018	.005371	.051151	.0014018
%RSD	3.688189	.4363773	1.967931	13.77163	.4661135	1.390627	3.095459
#1	5.739646	8.604098	-.334992	.0018497	1.156549	3.628611	.0463064
#2	5.881718	8.530127	-.347033	.0023049	1.146218	3.730799	.0436884
#3	5.468211	8.557837	-.346282	.0024208	1.153929	3.675502	.0458662

Reviewed By:kareem
On:12/13/2024 7:24:03 PM
Inst Id :P5

Sample Name: P5040-01 Acquired: 12/10/2024 19:47:11 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKD6 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.9655599	.5371474	.0473804
Stddev	.0080162	.0043158	.0036156
%RSD	.8302146	.8034585	7.631065
#1	.9563230	.5345508	.0475611
#2	.9706982	.5421293	.0509023
#3	.9696583	.5347620	.0436778

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2720.235	29573.13	3007.952	2103.364	3442.572
Stddev	3.690	291.77	23.996	23.513	12.691
%RSD	.1356401	.9865963	.7977578	1.117857	.3686448
#1	2715.975	29909.45	3027.556	2129.882	3428.896
#2	2722.326	29422.09	2981.192	2085.062	3453.969
#3	2722.404	29387.84	3015.108	2095.149	3444.852

Reviewed By:kareem
On:12/13/2024 7:24:03 PM
Inst Id :P5

Sample Name: CCV091 Acquired: 12/10/2024 19:51:01 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV091 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.848926	4.883780	24.70205	4.718395	4.806889	395.8415
Stddev	.006798	.008294	.11882	.015009	.025770	3.6940
%RSD	.1402032	.1698235	.4810066	.3180895	.5361032	.9332115
#1	4.850054	4.878343	24.64044	4.703757	4.780642	397.9580
#2	4.841635	4.879670	24.62669	4.717677	4.807871	397.9904
#3	4.855090	4.893326	24.83902	4.733749	4.832154	391.5760

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	10.03114	.5018246	2.485248	399.6508	15.42519	2.516646
Stddev	.10286	.0079700	.010912	3.7093	.04208	.008880
%RSD	1.025368	1.588195	.4390797	.9281331	.2727954	.3528471
#1	10.09389	.5061761	2.480279	401.9091	15.47249	2.513939
#2	10.08710	.5066716	2.477705	401.6734	15.39191	2.509436
#3	9.91244	.4926261	2.497761	395.3698	15.41117	2.526565

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	14.85878	402.4583	14.60206	397.2928	2.505510	1.236762
Stddev	.11838	3.7706	.12521	3.0912	.009672	.004837
%RSD	.7966844	.9368800	.8574752	.7780626	.3860421	.3911266
#1	14.92747	405.0449	14.66217	399.1020	2.502324	1.242320
#2	14.92677	404.1980	14.68588	399.0530	2.497832	1.234466
#3	14.72209	398.1320	14.45813	393.7236	2.516373	1.233500

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	394.6370	2.509915	14.20221	150.2906	4.966641	F 4.137039
Stddev	3.4621	.033989	.09791	1.3518	.019807	.073046
%RSD	.8772924	1.354195	.6894249	.8994345	.3988023	1.765671
#1	396.5745	2.524869	14.16067	151.1444	4.958845	4.184189
#2	396.6966	2.533862	14.13190	150.9952	4.951918	4.174031
#3	390.6399	2.471012	14.31404	148.7321	4.989160	4.052896

Reviewed By:kareem
On:12/13/2024 7:24:03 PM
Inst Id :P5

Sample Name: CCV091 Acquired: 12/10/2024 19:51:01 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV091 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.793485	4.978112	4.860699	4.980226	4.923233	4.741233
Stddev	.019881	.027473	.077998	.018114	.041211	.036453
%RSD	.4147604	.5518824	1.604663	.3637251	.8370658	.7688548
#1	4.774779	4.982775	4.910865	4.978512	4.960405	4.759060
#2	4.791313	4.948606	4.900394	4.963029	4.930377	4.765343
#3	4.814364	5.002956	4.770838	4.999136	4.878917	4.699297

Elem	Li6707
Units	ppm
Avg	4.998456
Stddev	.050452
%RSD	1.009349
#1	5.027081
#2	5.028084
#3	4.940202

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2093.720	24164.31	2581.307	1599.809	3084.021
Stddev	7.459	73.11	35.130	9.097	8.293
%RSD	.3562463	.3025442	1.360943	.5686558	.2689021
#1	2102.244	24127.47	2563.231	1598.501	3089.129
#2	2090.526	24248.50	2558.896	1609.490	3088.482
#3	2088.391	24116.95	2621.795	1591.437	3074.452

Reviewed By:kareem
On:12/13/2024 7:24:03 PM
Inst Id :P5

Sample Name: CCB091 Acquired: 12/10/2024 19:54:39 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB091 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.001422	.0016286	.0012843	.0023636	.0008839	.0418470
Stddev	.002345	.0009893	.0007954	.0066752	.0016915	.0155014
%RSD	164.8568	60.74406	61.93790	282.4186	191.3668	37.04301
#1	-.004103	.0025885	.0017825	.0016944	.0023648	.0241768
#2	-.000409	.0006123	.0003669	.0093482	.0012464	.0482089
#3	.000246	.0016852	.0017034	-.003952	-.000959	.0531553

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0004034	-.000003	.0001326	.0271364	-.000507	.0000797
Stddev	.0014549	.000072	.0000585	.0445572	.000261	.0000932
%RSD	360.7009	2098.089	44.09545	164.1973	51.44774	116.9419
#1	-.001277	-.000069	.0000708	.0784247	-.000599	-.000021
#2	.001256	.000073	.0001870	.0050244	-.000710	.000163
#3	.001231	-.000014	.0001399	-.002040	-.000213	.000098

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0017463	.0238855	.0009725	-.078008	-.000877	-.000221
Stddev	.0054830	.0218527	.0009907	.060726	.000614	.000680
%RSD	313.9826	91.48931	101.8653	77.84624	70.06030	307.6914
#1	.0080710	.0487224	-.000148	-.101477	-.001006	-.000287
#2	-.001168	.0153252	.001733	-.123496	-.001416	-.000866
#3	-.001664	.0076089	.001332	-.009049	-.000208	.000489

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0060779	-.004064	.0022649	-.102331	.0004357	.0111053
Stddev	.8275941	.008523	.0052654	.160693	.0011264	.0011455
%RSD	13616.41	209.7105	232.4723	157.0316	258.5512	10.31509
#1	-.426155	-.013382	.0031652	-.286239	.0011738	.0124261
#2	-.515906	-.002148	.0070221	-.031728	-.000861	.0103832
#3	.960295	.003337	-.003393	.010972	.000994	.0105065

Reviewed By:kareem
On:12/13/2024 7:24:03 PM
Inst Id :P5

Sample Name: CCB091 Acquired: 12/10/2024 19:54:39 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB091 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000318	-.002639	-.000471	F -.010386	.0058498	.0001982
Stddev	.000383	.002423	.000231	.000905	.0024694	.0001963
%RSD	120.1443	91.80611	49.11425	8.710425	42.21377	99.00858
#1	-.000371	-.002823	-.000662	-.010741	.0034970	.0001452
#2	-.000672	-.000130	-.000537	-.011059	.0084213	.0004155
#3	.000088	-.004964	-.000214	-.009357	.0056311	.0000339

Elem	Li6707
Units	ppm
Avg	F -.033566
Stddev	.004619
%RSD	13.75977
#1	-.034644
#2	-.028503
#3	-.037550

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2516.498	27786.29	2695.770	1961.358	3937.028
Stddev	17.777	158.43	25.067	7.852	24.139
%RSD	.7064354	.5701837	.9298504	.4003159	.6131316
#1	2517.050	27959.51	2689.628	1969.921	3939.174
#2	2498.451	27750.65	2723.337	1959.653	3911.888
#3	2533.993	27648.71	2674.345	1954.498	3960.023

Reviewed By:kareem
On:12/13/2024 7:24:03 PM
Inst Id :P5

Sample Name: P5040-02 Acquired: 12/10/2024 19:58:41 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKD6D Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0269651	.0102666	.2586441	-.022852	-.008144	53.58513	.8934796
Stddev	.0003346	.0008102	.0024927	.001839	.001750	.31349	.0081069
%RSD	1.240912	7.891579	.9637444	8.048110	21.48304	.5850235	.9073390
#1	.0266668	.0105882	.2599771	-.020751	-.009663	53.93264	.9026909
#2	.0273269	.0093450	.2557684	-.023635	-.008538	53.49913	.8903184
#3	.0269017	.0108666	.2601868	-.024169	-.006231	53.32362	.8874296

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0041781	.0033192	572.5319	.0851389	.1026328	.1582160	132.7009
Stddev	.0001550	.0001424	3.8096	.0008254	.0008079	.0097216	.7163
%RSD	3.709288	4.289021	.6654022	.9695054	.7871505	6.144502	.5397634
#1	.0042489	.0031683	576.8216	.0841858	.1026659	.1620112	133.5110
#2	.0040003	.0034512	571.2308	.0856096	.1018089	.1654675	132.4399
#3	.0042850	.0033381	569.5432	.0856213	.1034237	.1471693	132.1517

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.795998	133.3919	.1572721	-.013057	.6328737	.1421257	.4341493
Stddev	.050873	.8842	.0006561	.000687	.1569509	.0010269	.0065838
%RSD	.6525563	.6628874	.4171531	5.264596	24.79972	.7225012	1.516495
#1	7.850707	134.3250	.1566285	-.012446	.7821940	.1409443	.4383106
#2	7.787172	133.2846	.1572478	-.012923	.6471585	.1426291	.4375787
#3	7.750115	132.5663	.1579400	-.013801	.4692687	.1428037	.4265587

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.532160	8.822835	-.343279	.0026073	1.188336	3.728435	.0459856
Stddev	.028767	.057301	.002432	.0003348	.005143	.016874	.0005657
%RSD	.5199914	.6494663	.7084537	12.83955	.4327815	.4525778	1.230156
#1	5.504905	8.803888	-.341245	.0022792	1.190978	3.737345	.0465877
#2	5.529344	8.777407	-.342619	.0025944	1.182410	3.738987	.0459040
#3	5.562231	8.887211	-.345973	.0029484	1.191622	3.708974	.0454651

Reviewed By:kareem
On:12/13/2024 7:24:03 PM
Inst Id :P5

Sample Name: P5040-02 Acquired: 12/10/2024 19:58:41 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKD6D Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.9760708	.5440448	.0520208
Stddev	.0052612	.0035021	.0042308
%RSD	.5390191	.6437227	8.132945
#1	.9795024	.5471354	.0480689
#2	.9786964	.5447582	.0564841
#3	.9700135	.5402409	.0515094

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2720.708	29693.01	3042.828	2113.665	3419.156
Stddev	8.804	253.35	9.622	19.045	13.522
%RSD	.3235761	.8532349	.3162166	.9010602	.3954855
#1	2725.797	29971.62	3033.785	2132.588	3426.304
#2	2725.784	29630.97	3052.940	2113.909	3427.603
#3	2710.543	29476.44	3041.758	2094.499	3403.560

Reviewed By:kareem
On:12/13/2024 7:24:03 PM
Inst Id :P5

Sample Name: P5040-01LX5 Acquired: 12/10/2024 20:02:31 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKD6L Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0008144	.0110618	.0512780	-.012263	-.009447	11.61191	.1939818
Stddev	.0021692	.0017891	.0020325	.003957	.000761	.06894	.0007825
%RSD	266.3435	16.17388	3.963737	32.26726	8.054025	.5936712	.4033909
#1	-.000962	.0123078	.0526717	-.007694	-.008621	11.61769	.1944420
#2	.000173	.0118659	.0522165	-.014608	-.010119	11.67778	.1944251
#3	.003232	.0090117	.0489458	-.014485	-.009601	11.54027	.1930783

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0009073	.0005822	127.5305	.0188652	.0385672	.0379783	29.74690
Stddev	.0000567	.0000738	.8324	.0001224	.0002227	.0017178	.18021
%RSD	6.244497	12.66734	.6527084	.6487108	.5775438	4.523246	.6058142
#1	.0008967	.0006475	127.7680	.0187359	.0384010	.0386975	29.89535
#2	.0009685	.0005970	128.2184	.0188804	.0384805	.0360177	29.79896
#3	.0008566	.0005022	126.6052	.0189793	.0388203	.0392196	29.54639

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.752513	29.81423	.0306484	-.002468	.1225620	.0297389	.0958992
Stddev	.011370	.06534	.0004402	.000431	.5696167	.0057118	.0089328
%RSD	.6487896	.2191445	1.436391	17.45183	464.7580	19.20639	9.314807
#1	1.752223	29.79862	.0301456	-.001981	.5637389	.0312616	.0955590
#2	1.764025	29.88596	.0309650	-.002622	.3244489	.0234201	.1049972
#3	1.741290	29.75811	.0308345	-.002800	-.520502	.0345351	.0871413

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7807538	1.689701	-.078079	-.001269	.2328192	.8408165	.0006059
Stddev	.2551022	.005259	.001356	.000516	.0015028	.0027364	.0013910
%RSD	32.67384	.3112515	1.736617	40.65346	.6454982	.3254430	229.5694
#1	1.066783	1.689235	-.079004	-.001129	.2311647	.8437273	.0021048
#2	.698712	1.684690	-.078710	-.001841	.2331929	.8404255	-.000643
#3	.576767	1.695178	-.076522	-.000838	.2340999	.8382966	.000356

Reviewed By:kareem
On:12/13/2024 7:24:03 PM
Inst Id :P5

Sample Name: P5040-01LX5 Acquired: 12/10/2024 20:02:31 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKD6L Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.2193835	.1190915	-.027734
Stddev	.0051829	.0008912	.001477
%RSD	2.362487	.7483489	5.326319
#1	.2200336	.1186525	-.029254
#2	.2242107	.1201171	-.026303
#3	.2139062	.1185050	-.027645

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2587.148	28214.62	2818.842	1997.715	3757.646
Stddev	12.325	127.94	8.216	17.821	21.384
%RSD	.4764092	.4534466	.2914597	.8920819	.5690787
#1	2597.110	28078.74	2817.195	1979.342	3771.084
#2	2590.970	28232.37	2811.574	1998.876	3768.867
#3	2573.365	28332.76	2827.756	2014.927	3732.987

Reviewed By:kareem
On:12/13/2024 7:24:03 PM
Inst Id :P5

Sample Name: P5040-03 Acquired: 12/10/2024 20:06:26 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKD6S Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1048847	.0992774	.2895646	.1299342	.1520228	56.27329	4.504922
Stddev	.0037625	.0022748	.0047811	.0025629	.0004243	.39570	.024245
%RSD	3.587248	2.291365	1.651136	1.972447	.2791377	.7031696	.5381983
#1	.1050114	.1018690	.2938951	.1295376	.1517654	55.83691	4.477497
#2	.1085822	.0983521	.2844339	.1275927	.1525126	56.60877	4.523510
#3	.1010604	.0976110	.2903649	.1326722	.1517904	56.37419	4.513757

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0967348	.0982322	566.0912	.4731520	1.092021	.5760804	133.1100
Stddev	.0002646	.0007846	4.2425	.0157001	.007784	.0138839	1.0205
%RSD	.2735350	.7987219	.7494429	3.318182	.7128340	2.410061	.7666652
#1	.0964746	.0991292	561.6739	.4912806	1.100879	.5600612	131.9608
#2	.0967264	.0976734	570.1342	.4640108	1.086272	.5846406	133.9103
#3	.0970036	.0978940	566.4655	.4641646	1.088912	.5835392	133.4588

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	8.585925	131.3852	1.153444	.0746315	.5990957	1.072421	1.217286
Stddev	.089982	1.3633	.009444	.0019915	.1727585	.002509	.029275
%RSD	1.048020	1.037633	.8187465	2.668394	28.83654	.2339542	2.404948
#1	8.507750	130.0239	1.164296	.0769009	.4912342	1.073897	1.245091
#2	8.684286	132.7505	1.147093	.0738186	.5076996	1.069524	1.220031
#3	8.565738	131.3811	1.148943	.0731751	.7983534	1.073841	1.186734

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.541936	8.596054	-.350019	.0022346	1.181038	3.691553	.0461826
Stddev	.080528	.078277	.003270	.0000264	.014687	.004980	.0014960
%RSD	1.453061	.9106102	.9343039	1.180326	1.243590	.1349056	3.239306
#1	5.465326	8.686341	-.349228	.0022188	1.194872	3.696026	.0459765
#2	5.625879	8.547230	-.353612	.0022200	1.165625	3.686186	.0448003
#3	5.534602	8.554593	-.347217	.0022650	1.182616	3.692447	.0477709

Reviewed By:kareem
On:12/13/2024 7:24:03 PM
Inst Id :P5

Sample Name: P5040-03 Acquired: 12/10/2024 20:06:26 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKD6S Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.9595983	.5329752	.0415496
Stddev	.0101936	.0048558	.0036395
%RSD	1.062282	.9110686	8.759377
#1	.9533367	.5290608	.0392924
#2	.9713607	.5384090	.0457481
#3	.9540976	.5314559	.0396082

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2723.892	29456.79	3038.278	2099.942	3439.291
Stddev	11.057	679.14	29.687	41.134	16.548
%RSD	.4059236	2.305547	.9770991	1.958806	.4811491
#1	2715.360	28679.38	3071.900	2052.883	3422.615
#2	2736.384	29756.31	3015.681	2117.896	3455.708
#3	2719.933	29934.69	3027.253	2129.046	3439.548

Reviewed By:kareem
On:12/13/2024 7:24:03 PM
Inst Id :P5

Sample Name: P4977-01 Acquired: 12/10/2024 20:10:15 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME29F6 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0115811	.0101898	.0328718	-.035021	-.018307	17.85760
Stddev	.0013728	.0007557	.0014295	.004270	.002385	.08261
%RSD	11.85391	7.416631	4.348819	12.19123	13.02841	.4626075
#1	.0116592	.0093513	.0342336	-.031413	-.016138	17.94890
#2	.0129132	.0103997	.0313830	-.033916	-.017921	17.78803
#3	.0101709	.0108184	.0329989	-.039735	-.020861	17.83585

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0759329	.0015964	.0010137	F 1179.146	.0592752	.0716665
Stddev	.0002735	.0000591	.0000370	3.792	.0011273	.0006713
%RSD	.3601418	3.703798	3.654024	.3215518	1.901845	.9367048
#1	.0762284	.0016004	.0009759	1183.168	.0604252	.0720408
#2	.0756887	.0015355	.0010500	1175.637	.0592285	.0708915
#3	.0758815	.0016535	.0010153	1178.633	.0581720	.0720672

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0645117	63.64551	2.204463	257.2581	.0845604	-.005798
Stddev	.0096331	.12896	.003154	1.1937	.0004296	.000539
%RSD	14.93225	.2026243	.1430570	.4640265	.5080422	9.288013
#1	.0676398	63.78635	2.206889	258.6198	.0848051	-.005691
#2	.0721919	63.53320	2.200898	256.3916	.0848117	-.006383
#3	.0537033	63.61698	2.205601	256.7631	.0840643	-.005322

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4495186	.0678278	.1888925	.8814164	2.251067	-.144842
Stddev	.6687387	.0052638	.0046008	.1070599	.010301	.002121
%RSD	148.7678	7.760513	2.435658	12.14635	.4576146	1.464605
#1	1.199322	.0721646	.1892677	.8581089	2.239179	-.146572
#2	-.085251	.0619714	.1841156	.7879302	2.256647	-.142475
#3	.234485	.0693474	.1932942	.9982100	2.257374	-.145480

Reviewed By:kareem
On:12/13/2024 7:24:03 PM
Inst Id :P5

Sample Name: P4977-01 Acquired: 12/10/2024 20:10:15 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME29F6 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0026549	1.251107	2.142571	.0500182	.4724162	1.093829
Stddev	.0002316	.006551	.011962	.0013427	.0022380	.005163
%RSD	8.725286	.5236120	.5582859	2.684362	.4737327	.4720237
#1	.0024164	1.256340	2.155708	.0495358	.4749766	1.099574
#2	.0028790	1.243760	2.132309	.0489834	.4714394	1.092336
#3	.0026693	1.253222	2.139695	.0515354	.4708326	1.089577

Elem	Li6707
Units	ppm
Avg	-.020760
Stddev	.003402
%RSD	16.38878
#1	-.020827
#2	-.017325
#3	-.024129

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2374.512	25814.49	2719.154	1828.145	3165.672
Stddev	4.168	78.36	17.649	7.319	10.760
%RSD	.1755333	.3035543	.6490799	.4003268	.3399011
#1	2375.633	25904.62	2710.980	1833.092	3167.884
#2	2378.005	25762.48	2739.408	1819.738	3175.155
#3	2369.898	25776.38	2707.073	1831.606	3153.978

Reviewed By:kareem
On:12/13/2024 7:24:03 PM
Inst Id :P5

Sample Name: P4977-02 Acquired: 12/10/2024 20:14:08 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME29F7 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0625170	.0128397	.0556118	-.031135	-.015432	21.56641
Stddev	.0028370	.0020857	.0030343	.003727	.002460	.28277
%RSD	4.537974	16.24442	5.456136	11.97084	15.94405	1.311138
#1	.0627166	.0108163	.0532330	-.030051	-.016276	21.24001
#2	.0652490	.0149826	.0590289	-.028069	-.012660	21.72233
#3	.0595855	.0127202	.0545734	-.035283	-.017359	21.73690

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2650299	.0019736	.0027890	F 1187.188	.0622440	.0910583
Stddev	.0034923	.0000134	.0000152	13.712	.0008320	.0002818
%RSD	1.317716	.6793564	.5454805	1.154983	1.336687	.3094426
#1	.2615757	.0019797	.0027952	1171.554	.0620745	.0913822
#2	.2649549	.0019828	.0028002	1192.835	.0615098	.0909233
#3	.2685592	.0019582	.0027717	1197.174	.0631477	.0908694

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0994102	99.56439	8.423992	273.7448	.1737255	-.010431
Stddev	.0120640	1.38354	.102730	3.0022	.0006978	.000655
%RSD	12.13555	1.389591	1.219488	1.096716	.4016453	6.274984
#1	.0906916	97.96762	8.307252	270.2953	.1739419	-.010277
#2	.0943606	100.3191	8.464139	275.1712	.1742894	-.009868
#3	.1131785	100.4065	8.500586	275.7678	.1729452	-.011150

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.185473	.0990930	.2345508	2.059648	2.872159	-.244810
Stddev	.490837	.0048967	.0049279	.108391	.008048	.004119
%RSD	41.40433	4.941521	2.100995	5.262619	.2801911	1.682472
#1	1.489398	.1017170	.2360776	1.934826	2.875892	-.241924
#2	1.447810	.0934435	.2385347	2.130020	2.877662	-.242979
#3	.619212	.1021184	.2290403	2.114098	2.862923	-.249527

Reviewed By:kareem
On:12/13/2024 7:24:03 PM
Inst Id :P5

Sample Name: P4977-02 Acquired: 12/10/2024 20:14:08 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME29F7 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0111625	1.405409	2.429560	.0139723	.8621238	.9236846
Stddev	.0001422	.009945	.037222	.0014835	.0124482	.0112288
%RSD	1.274299	.7076204	1.532042	10.61746	1.443898	1.215656
#1	.0110067	1.394137	2.389142	.0127763	.8482091	.9109450
#2	.0111954	1.409142	2.437112	.0135082	.8659598	.9279652
#3	.0112855	1.412947	2.462427	.0156323	.8722025	.9321435

Elem	Li6707
Units	ppm
Avg	-.020117
Stddev	.001948
%RSD	9.684211
#1	-.019955
#2	-.018255
#3	-.022142

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2447.853	26617.20	2793.697	1884.610	3194.002
Stddev	6.063	81.41	51.533	6.229	9.234
%RSD	.2476975	.3058511	1.844625	.3305221	.2890918
#1	2452.202	26620.01	2846.169	1891.334	3198.827
#2	2440.927	26697.17	2791.765	1879.036	3183.355
#3	2450.430	26534.42	2743.157	1883.461	3199.824

Reviewed By:kareem
On:12/13/2024 7:24:03 PM
Inst Id :P5

Sample Name: P4977-06 Acquired: 12/10/2024 20:18:00 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME29F9 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0125879	.0130428	.0306161	-.033323	-.015714	13.51626
Stddev	.0031932	.0032344	.0008311	.002468	.001106	.16631
%RSD	25.36702	24.79834	2.714688	7.405449	7.036531	1.230462
#1	.0108943	.0128423	.0297761	-.033044	-.014880	13.70505
#2	.0105983	.0099133	.0306340	-.031006	-.016968	13.45236
#3	.0162711	.0163728	.0314381	-.035918	-.015293	13.39138

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0529093	.0013060	.0011458	F 1152.890	.0362151	.0664393
Stddev	.0004431	.0000754	.0001047	13.885	.0005385	.0004594
%RSD	.8375501	5.771676	9.135692	1.204358	1.486999	.6914716
#1	.0529236	.0013778	.0012630	1168.922	.0363629	.0666560
#2	.0524592	.0013127	.0011125	1144.723	.0366643	.0659116
#3	.0533451	.0012275	.0010618	1145.024	.0356181	.0667503

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0445128	59.65775	5.030145	358.4376	.0632313	-.006639
Stddev	.0049814	.69319	.060471	4.5805	.0000879	.001089
%RSD	11.19097	1.161948	1.202163	1.277904	.1389913	16.39886
#1	.0396193	60.45739	5.099815	363.7100	.0632072	-.005657
#2	.0495777	59.28880	4.991275	355.4374	.0631579	-.007810
#3	.0443412	59.22707	4.999347	356.1655	.0633287	-.006450

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.168541	.0569564	.1416600	.5284948	1.762129	-.132586
Stddev	.456815	.0038731	.0060824	.1329051	.003298	.000225
%RSD	39.09273	6.800127	4.293622	25.14786	.1871444	.1693275
#1	1.695958	.0525197	.1457954	.3757883	1.761164	-.132836
#2	.897504	.0586865	.1346762	.5916452	1.765802	-.132518
#3	.912162	.0596628	.1445085	.6180509	1.759422	-.132403

Reviewed By:kareem
On:12/13/2024 7:24:03 PM
Inst Id :P5

Sample Name: P4977-06 Acquired: 12/10/2024 20:18:00 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME29F9 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0023946	1.414818	1.736409	.0055915	.6130733	.7453203
Stddev	.0004371	.002067	.011252	.0005894	.0074477	.0101741
%RSD	18.25285	.1461135	.6480317	10.54138	1.214816	1.365060
#1	.0028570	1.417186	1.746858	.0050217	.6216691	.7570659
#2	.0019884	1.413371	1.737873	.0055540	.6090060	.7396501
#3	.0023382	1.413898	1.724497	.0061988	.6085449	.7392448

Elem	Li6707
Units	ppm
Avg	-.032781
Stddev	.002120
%RSD	6.467770
#1	-.032649
#2	-.030730
#3	-.034964

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2406.357	26256.69	2732.589	1856.590	3184.247
Stddev	5.174	98.42	31.347	20.378	4.615
%RSD	.2149985	.3748395	1.147143	1.097580	.1449198
#1	2401.896	26194.54	2696.396	1845.514	3180.445
#2	2412.029	26370.17	2750.345	1880.107	3189.381
#3	2405.146	26205.37	2751.028	1844.149	3182.913

Reviewed By:kareem
On:12/13/2024 7:24:03 PM
Inst Id :P5

Sample Name: P4977-07 Acquired: 12/10/2024 20:21:53 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME29G0 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0320840	.0101609	.0508076	-.041149	-.018396	13.75263
Stddev	.0017741	.0028427	.0019204	.001970	.002724	.04193
%RSD	5.529504	27.97715	3.779819	4.787467	14.80522	.3048519
#1	.0300380	.0099282	.0518704	-.042827	-.021199	13.79070
#2	.0330177	.0131129	.0519617	-.041642	-.015760	13.75949
#3	.0331961	.0074417	.0485907	-.038980	-.018230	13.70769

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0723677	.0016477	.0013072	F 1393.704	.0413615	.0717301
Stddev	.0005970	.0000591	.0001355	1.473	.0008573	.0007743
%RSD	.8249731	3.587731	10.36369	.1056737	2.072647	1.079415
#1	.0718419	.0015866	.0014618	1392.004	.0410996	.0709169
#2	.0730167	.0016519	.0012094	1394.493	.0423192	.0724584
#3	.0722446	.0017046	.0012503	1394.614	.0406657	.0718152

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0733749	63.33860	3.233329	367.2036	.0837009	-.006690
Stddev	.0061780	.04024	.008084	.7293	.0007939	.000578
%RSD	8.419779	.0635380	.2500269	.1986194	.9484866	8.638148
#1	.0681792	63.29242	3.224009	366.4243	.0839188	-.007005
#2	.0802061	63.36618	3.238446	367.3168	.0843631	-.007042
#3	.0717394	63.35720	3.237532	367.8698	.0828208	-.006023

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6174519	.0613222	.1907261	.6645368	1.848532	-.125684
Stddev	.5398965	.0044018	.0062005	.0587545	.001018	.001053
%RSD	87.43944	7.178193	3.251000	8.841427	.0550658	.8377938
#1	1.133977	.0653572	.1921509	.7129876	1.848947	-.126192
#2	.056882	.0566279	.1839372	.6814389	1.847372	-.126385
#3	.661496	.0619816	.1960902	.5991837	1.849276	-.124473

Reviewed By:kareem
On:12/13/2024 7:24:03 PM
Inst Id :P5

Sample Name: P4977-07 Acquired: 12/10/2024 20:21:53 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME29G0 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0056535	1.556072	1.993510	.0025156	.3914378	1.005705
Stddev	.0003329	.001237	.013886	.0007504	.0044264	.000480
%RSD	5.889331	.0794984	.6965386	29.83064	1.130801	.0477017
#1	.0055559	1.556669	1.984372	.0025392	.3866275	1.005170
#2	.0053801	1.556897	2.009489	.0032539	.3953391	1.006095
#3	.0060243	1.554650	1.986669	.0017536	.3923467	1.005852

Elem	Li6707
Units	ppm
Avg	-.025068
Stddev	.001500
%RSD	5.984957
#1	-.025088
#2	-.026558
#3	-.023558

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2394.097	25776.48	2715.189	1817.924	3156.451
Stddev	9.938	473.74	14.876	33.219	12.429
%RSD	.4150952	1.837865	.5478984	1.827305	.3937583
#1	2397.740	25837.46	2707.514	1822.707	3162.943
#2	2401.699	25275.21	2705.717	1782.573	3164.289
#3	2382.852	26216.78	2732.335	1848.492	3142.120

Reviewed By:kareem
On:12/13/2024 7:24:03 PM
Inst Id :P5

Sample Name: P4977-08 Acquired: 12/10/2024 20:25:45 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME29G1 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0184392	.0122091	.0280129	-.027164	-.016899	12.24830
Stddev	.0035521	.0010379	.0018881	.001983	.001589	.05872
%RSD	19.26396	8.501103	6.739994	7.299789	9.403838	.4793943
#1	.0163154	.0110798	.0262804	-.026002	-.016103	12.25071
#2	.0164622	.0124262	.0300253	-.029453	-.015865	12.30577
#3	.0225399	.0131213	.0277332	-.026036	-.018728	12.18841

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0631010	.0010817	.0006752	F 831.0482	.0373784	.0589994
Stddev	.0019855	.0000738	.0000830	2.8062	.0009784	.0003712
%RSD	3.146520	6.826292	12.29398	.3376720	2.617562	.6292102
#1	.0652448	.0009979	.0005926	832.4033	.0366937	.0586566
#2	.0627328	.0011101	.0006746	832.9196	.0384989	.0593937
#3	.0613254	.0011371	.0007586	827.8216	.0369425	.0589479

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0435532	37.97290	1.672889	183.7666	.0616251	-.004487
Stddev	.0051236	.04385	.008592	.9654	.0015132	.000145
%RSD	11.76390	.1154756	.5136086	.5253641	2.455447	3.239512
#1	.0404271	38.01395	1.681643	184.8045	.0615233	-.004424
#2	.0407663	37.92671	1.672554	183.5998	.0601654	-.004384
#3	.0494661	37.97803	1.664469	182.8954	.0631866	-.004653

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3618782	.0511487	.1185609	.1452421	1.677360	-.085071
Stddev	.4986628	.0029314	.0105294	.0757227	.008568	.001042
%RSD	137.7985	5.731213	8.881009	52.13551	.5107769	1.224581
#1	-.098403	.0478045	.1125902	.2096981	1.667945	-.084042
#2	.891636	.0523675	.1307186	.1641805	1.679434	-.085048
#3	.292402	.0532741	.1123740	.0618477	1.684700	-.086125

Reviewed By:kareem
On:12/13/2024 7:24:03 PM
Inst Id :P5

Sample Name: P4977-08 Acquired: 12/10/2024 20:25:45 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME29G1 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0009027	2.041236	1.754716	-.000793	.6287479	.6672310
Stddev	.0003844	.010722	.008783	.000090	.0022059	.0018927
%RSD	42.58693	.5252845	.5005182	11.32499	.3508364	.2836636
#1	.0009874	2.029054	1.764549	-.000896	.6312017	.6686952
#2	.0004830	2.049244	1.751952	-.000750	.6281129	.6679040
#3	.0012377	2.045409	1.747649	-.000732	.6269292	.6650938

Elem	Li6707
Units	ppm
Avg	-.049320
Stddev	.008093
%RSD	16.40951
#1	-.043653
#2	-.045718
#3	-.058589

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2454.647	26841.20	2764.370	1898.652	3347.578
Stddev	4.096	75.91	12.387	6.356	9.979
%RSD	.1668538	.2827931	.4480845	.3347407	.2980888
#1	2457.472	26786.24	2751.775	1891.426	3353.911
#2	2449.950	26809.56	2764.796	1901.158	3336.075
#3	2456.519	26927.81	2776.538	1903.373	3352.748

Reviewed By:kareem
On:12/13/2024 7:24:03 PM
Inst Id :P5

Sample Name: P4977-09 Acquired: 12/10/2024 20:29:38 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME29G2 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0254839	.0111139	.0282570	-.039790	-.018908	13.52141
Stddev	.0030623	.0030531	.0005506	.001690	.001436	.05859
%RSD	12.01653	27.47123	1.948400	4.246178	7.593376	.4332915
#1	.0274704	.0145225	.0288526	-.039981	-.017728	13.47879
#2	.0270241	.0101893	.0281516	-.038014	-.018491	13.58822
#3	.0219573	.0086300	.0277667	-.041376	-.020507	13.49722

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0638180	.0012628	.0007967	F 1443.727	.0425381	.0674730
Stddev	.0006432	.0001388	.0000399	4.273	.0002577	.0005818
%RSD	1.007862	10.99420	5.006833	.2959987	.6058801	.8622056
#1	.0631346	.0014231	.0008421	1439.448	.0422406	.0674160
#2	.0644116	.0011820	.0007671	1447.995	.0426872	.0680811
#3	.0639079	.0011833	.0007809	1443.738	.0426867	.0669218

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0357311	41.17175	1.764456	317.7498	.0684537	-.004220
Stddev	.0056114	.16455	.012461	.8673	.0010865	.001334
%RSD	15.70446	.3996793	.7062056	.2729523	1.587183	31.60935
#1	.0374832	41.01458	1.750078	316.8123	.0680828	-.005758
#2	.0402574	41.34281	1.772125	317.9136	.0696771	-.003519
#3	.0294528	41.15788	1.771164	318.5235	.0676013	-.003382

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5867077	.0653736	.1250877	.1492857	1.473512	-.081978
Stddev	.3995373	.0077975	.0086582	.0190919	.008000	.003849
%RSD	68.09819	11.92763	6.921714	12.78880	.5429020	4.695141
#1	.2012329	.0625488	.1165053	.1275505	1.464297	-.080095
#2	.9989603	.0593822	.1338198	.1569624	1.477567	-.086406
#3	.5599299	.0741899	.1249381	.1633444	1.478672	-.079434

Reviewed By:kareem
On:12/13/2024 7:24:03 PM
Inst Id :P5

Sample Name: P4977-09 Acquired: 12/10/2024 20:29:38 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME29G2 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0030313	2.266201	1.839135	.0130760	.5908983	.8060040
Stddev	.0003689	.008803	.003762	.0016174	.0099021	.0025866
%RSD	12.17043	.3884530	.2045660	12.36935	1.675773	.3209212
#1	.0032515	2.263083	1.843198	.0112672	.5795750	.8039336
#2	.0026054	2.259381	1.838436	.0143832	.5951853	.8051749
#3	.0032370	2.276139	1.835772	.0135775	.5979345	.8089036

Elem	Li6707
Units	ppm
Avg	-.034973
Stddev	.006465
%RSD	18.48592
#1	-.032813
#2	-.042242
#3	-.029865

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2359.095	25790.72	2723.567	1829.417	3147.551
Stddev	4.407	252.09	6.457	18.532	2.268
%RSD	.1867953	.9774392	.2370727	1.012990	.0720484
#1	2360.968	26065.80	2721.799	1849.178	3149.494
#2	2354.061	25570.74	2718.179	1812.425	3145.059
#3	2362.255	25735.60	2730.724	1826.649	3148.099

Reviewed By:kareem
On:12/13/2024 7:24:03 PM
Inst Id :P5

Sample Name: P4976-01 Acquired: 12/10/2024 20:33:34 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME29D7 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0213878	.0085294	.0398707	-.035749	-.014641	15.13382
Stddev	.0001780	.0033127	.0010543	.002071	.002390	.10102
%RSD	.8320572	38.83849	2.644394	5.792034	16.32560	.6675275
#1	.0215549	.0055631	.0395371	-.033568	-.015066	15.04946
#2	.0214078	.0121041	.0410515	-.035991	-.012067	15.24577
#3	.0212006	.0079210	.0390235	-.037688	-.016790	15.10622

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0594428	.0016920	.0011699	F 1087.013	.0385926	.0756387
Stddev	.0014500	.0000613	.0000603	7.624	.0004602	.0006725
%RSD	2.439255	3.622978	5.152105	.7013495	1.192483	.8890951
#1	.0582136	.0016226	.0011991	1079.571	.0385999	.0748635
#2	.0610419	.0017389	.0011006	1094.806	.0390491	.0760656
#3	.0590730	.0017144	.0012101	1086.663	.0381288	.0759870

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0667778	61.26783	2.247656	280.1266	.0824109	-.005448
Stddev	.0127123	.37504	.017407	1.4985	.0003583	.000641
%RSD	19.03677	.6121376	.7744608	.5349224	.4348158	11.75882
#1	.0533628	60.84453	2.235948	279.1222	.0827116	-.005299
#2	.0786459	61.55866	2.267659	281.8490	.0825066	-.004895
#3	.0683248	61.40030	2.239361	279.4086	.0820144	-.006150

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2443316	.0602969	.1537939	1.244350	1.754964	-.138118
Stddev	.5365417	.0080253	.0042007	.145967	.004797	.000705
%RSD	219.5957	13.30968	2.731351	11.73037	.2733181	.5106746
#1	.7329895	.0653727	.1534402	1.141081	1.759177	-.137459
#2	.3298316	.0510446	.1581602	1.180624	1.749744	-.138032
#3	-.329826	.0644734	.1497813	1.411344	1.755973	-.138862

Reviewed By:kareem
On:12/13/2024 7:24:03 PM
Inst Id :P5

Sample Name: P4976-01 Acquired: 12/10/2024 20:33:34 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME29D7 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0074370	1.050765	2.494026	.0060443	.4400491	.7194547
Stddev	.0003944	.009302	.014774	.0012400	.0053124	.0058378
%RSD	5.302844	.8852448	.5923956	20.51500	1.207235	.8114250
#1	.0073153	1.057150	2.482072	.0074602	.4340583	.7163998
#2	.0071179	1.055052	2.510544	.0051520	.4441867	.7261861
#3	.0078779	1.040093	2.489461	.0055207	.4419022	.7157782

Elem	Li6707
Units	ppm
Avg	-.036827
Stddev	.002009
%RSD	5.453974
#1	-.034968
#2	-.036556
#3	-.038957

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2381.216	26057.76	2729.359	1841.295	3193.327
Stddev	5.358	58.74	25.842	6.367	6.317
%RSD	.2250026	.2254369	.9468302	.3457983	.1978088
#1	2384.464	26123.00	2752.294	1844.381	3195.071
#2	2384.151	26009.07	2701.360	1845.531	3198.589
#3	2375.032	26041.20	2734.424	1833.973	3186.322

Reviewed By:kareem
On:12/13/2024 7:24:03 PM
Inst Id :P5

Sample Name: P4976-02 Acquired: 12/10/2024 20:37:27 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME29D8 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0130919	.0089463	.0316710	-.037793	-.015715	12.34077
Stddev	.0020187	.0014608	.0012747	.005807	.001051	.01814
%RSD	15.41958	16.32827	4.024671	15.36548	6.690016	.1470119
#1	.0118372	.0106116	.0325482	-.044197	-.016006	12.32870
#2	.0154206	.0083461	.0302088	-.032871	-.016590	12.36164
#3	.0120179	.0078813	.0322559	-.036310	-.014548	12.33199

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0619075	.0013975	.0010737	F 1266.555	.0371063	.0664553
Stddev	.0007404	.0000885	.0000475	2.844	.0002805	.0004574
%RSD	1.195989	6.330941	4.423962	.2245085	.7558322	.6883013
#1	.0625043	.0013395	.0010955	1265.109	.0374156	.0663747
#2	.0621393	.0014994	.0011063	1264.725	.0370350	.0660436
#3	.0610789	.0013537	.0010192	1269.831	.0368684	.0669477

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0764573	56.08183	2.165175	184.5770	.0651714	-.006227
Stddev	.0036683	.21352	.005442	.5427	.0002328	.001325
%RSD	4.797897	.3807206	.2513215	.2939989	.3572472	21.27124
#1	.0723840	56.06715	2.158908	184.0455	.0650594	-.007753
#2	.0774877	55.87603	2.167917	184.5554	.0654391	-.005561
#3	.0795003	56.30230	2.168701	185.1302	.0650158	-.005368

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9109383	.0548068	.1559221	.5114617	1.834687	-.135462
Stddev	.7281300	.0060294	.0061801	.1232154	.005324	.000589
%RSD	79.93187	11.00111	3.963593	24.09083	.2902062	.4350543
#1	.0800059	.0608785	.1630580	.6395904	1.840590	-.135901
#2	1.215333	.0488207	.1524007	.3938314	1.830247	-.135694
#3	1.437476	.0547210	.1523074	.5009634	1.833223	-.134792

Reviewed By:kareem
On:12/13/2024 7:24:03 PM
Inst Id :P5

Sample Name: P4976-02 Acquired: 12/10/2024 20:37:27 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME29D8 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0060562	1.209220	1.938302	.0038067	.4750567	.9529797
Stddev	.0002632	.004514	.011716	.0005050	.0052278	.0023227
%RSD	4.346270	.3733080	.6044607	13.26494	1.100462	.2437331
#1	.0062471	1.205041	1.934688	.0034887	.4713525	.9510669
#2	.0057559	1.208611	1.928819	.0035424	.4727809	.9523079
#3	.0061656	1.214007	1.951400	.0043890	.4810367	.9555643

Elem	Li6707
Units	ppm
Avg	-.046596
Stddev	.002919
%RSD	6.264439
#1	-.049960
#2	-.044743
#3	-.045084

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2402.618	26380.82	2756.404	1862.135	3206.163
Stddev	6.886	38.04	11.694	9.756	3.747
%RSD	.2866111	.1441951	.4242468	.5239384	.1168762
#1	2401.621	26406.99	2766.739	1869.980	3207.140
#2	2409.949	26337.19	2758.762	1851.211	3209.325
#3	2396.285	26398.29	2743.711	1865.216	3202.024

Reviewed By:kareem
On:12/13/2024 7:24:03 PM
Inst Id :P5

Sample Name: P4976-03 Acquired: 12/10/2024 20:41:20 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME29D9 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0491011	.0115755	.0377878	-.036143	-.016880	19.35083
Stddev	.0036541	.0014698	.0027739	.003941	.003581	.01547
%RSD	7.441901	12.69739	7.340833	10.90326	21.21651	.0799657
#1	.0471897	.0104259	.0396299	-.037373	-.015809	19.35032
#2	.0467992	.0132316	.0345974	-.031734	-.013956	19.36655
#3	.0533144	.0110691	.0391360	-.039321	-.020874	19.33562

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0819256	.0014037	.0009524	F 1066.318	.0590494	.0734340
Stddev	.0016898	.0001911	.0000794	.875	.0007112	.0002809
%RSD	2.062602	13.61301	8.340291	.0821044	1.204408	.3824924
#1	.0836401	.0015775	.0010436	1065.509	.0598207	.0732149
#2	.0818751	.0014345	.0008986	1067.248	.0589080	.0737507
#3	.0802617	.0011991	.0009149	1066.198	.0584195	.0733365

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0693521	57.41705	4.901896	256.9020	.0898134	-.004830
Stddev	.0067877	.18730	.009061	.3022	.0010594	.000380
%RSD	9.787228	.3262036	.1848507	.1176433	1.179510	7.869452
#1	.0771182	57.39273	4.892299	257.0517	.0888530	-.005182
#2	.0663848	57.61533	4.903083	256.5542	.0909497	-.004882
#3	.0645534	57.24311	4.910304	257.1002	.0896375	-.004427

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3444318	.0820822	.1819228	.8998753	1.919258	-.132928
Stddev	.9658555	.0013998	.0084357	.1034143	.010161	.002742
%RSD	280.4199	1.705409	4.636982	11.49207	.5294296	2.062930
#1	1.319169	.0832281	.1862006	.9605002	1.912287	-.130268
#2	.326416	.0805220	.1722052	.9586583	1.914571	-.132772
#3	-.612290	.0824965	.1873627	.7804675	1.930917	-.135746

Reviewed By:kareem
On:12/13/2024 7:24:03 PM
Inst Id :P5

Sample Name: P4976-03 Acquired: 12/10/2024 20:41:20 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME29D9 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0031704	5.349647	2.368106	.0043254	.6438540	.7733433
Stddev	.0000538	.023463	.007717	.0006077	.0047280	.0015600
%RSD	1.695816	.4385967	.3258520	14.04987	.7343247	.2017166
#1	.0031410	5.323260	2.359745	.0042147	.6457756	.7715895
#2	.0032324	5.357515	2.369619	.0037806	.6473186	.7745760
#3	.0031377	5.368164	2.374954	.0049808	.6384678	.7738645

Elem	Li6707
Units	ppm
Avg	-.022198
Stddev	.005071
%RSD	22.84547
#1	-.019452
#2	-.028050
#3	-.019091

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2389.819	26320.43	2728.446	1859.068	3177.734
Stddev	7.362	104.32	7.346	7.352	11.624
%RSD	.3080438	.3963531	.2692479	.3954462	.3658005
#1	2398.211	26233.17	2724.089	1854.570	3191.098
#2	2386.796	26292.16	2724.322	1855.082	3172.138
#3	2384.450	26435.98	2736.928	1867.552	3169.967

Reviewed By:kareem
On:12/13/2024 7:24:03 PM
Inst Id :P5

Sample Name: P4976-04 Acquired: 12/10/2024 20:45:10 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME29E0 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0595552	-.012862	.1649936	.0037241	.0084780	133.5742	.6464450
Stddev	.0013137	.002783	.0014391	.0040630	.0036191	.3112	.0026036
%RSD	2.205800	21.63472	.8722423	109.0998	42.68881	.2329597	.4027523
#1	.0607341	-.011947	.1658392	-.000942	.0092431	133.6889	.6470732
#2	.0581391	-.015986	.1633319	.006478	.0116534	133.8118	.6486769
#3	.0597923	-.010651	.1658098	.005636	.0045374	133.2220	.6435848

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0087626	.0004256	24.06795	.1754651	.1756200	.0973702	343.4612
Stddev	.0002949	.0001143	.06343	.0009942	.0005621	.0065886	.8100
%RSD	3.365875	26.86182	.2635350	.5666049	.3200799	6.766574	.2358318
#1	.0089668	.0005192	24.09696	.1753729	.1759669	.0899225	343.4440
#2	.0088966	.0002982	24.11168	.1745202	.1749714	.1024390	344.2796
#3	.0084245	.0004592	23.99520	.1765022	.1759216	.0997491	342.6599

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.106991	66.56650	.5711855	-.030865	2.471857	.2276233	.7669109
Stddev	.007209	.32082	.0009616	.000951	.297516	.0061928	.0082112
%RSD	.2320145	.4819551	.1683585	3.081384	12.03613	2.720616	1.070680
#1	3.114811	66.93660	.5719281	-.031417	2.583937	.2293990	.7603705
#2	3.100611	66.39546	.5700992	-.029767	2.134580	.2327343	.7642364
#3	3.105551	66.36744	.5715291	-.031411	2.697055	.2207367	.7761259

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	23.75709	1.677114	-.941206	-.001736	67.92133	7.230699	.0194458
Stddev	.20037	.001686	.008382	.000554	.13428	.091633	.0012598
%RSD	.8434034	.1005139	.8905260	31.89505	.1977023	1.267278	6.478281
#1	23.67895	1.678819	-.947947	-.001491	67.96105	7.308299	.0180079
#2	23.98475	1.677074	-.943850	-.001347	67.77166	7.254191	.0199742
#3	23.60755	1.675448	-.931821	-.002370	68.03127	7.129607	.0203553

Reviewed By:kareem
On:12/13/2024 7:24:03 PM
Inst Id :P5

Sample Name: P4976-04 Acquired: 12/10/2024 20:45:10 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME29E0 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.3854474	-.250539	.3748664
Stddev	.0038002	.000891	.0059157
%RSD	.9859279	.3554529	1.578072
#1	.3897381	-.250400	.3715342
#2	.3840983	-.251491	.3816966
#3	.3825057	-.249727	.3713685

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2625.149	28666.64	2830.685	2048.886	3787.676
Stddev	8.840	125.02	24.099	15.062	13.757
%RSD	.3367292	.4361055	.8513661	.7351516	.3632174
#1	2618.312	28731.98	2807.756	2058.377	3777.623
#2	2635.131	28745.45	2828.494	2056.764	3803.355
#3	2622.004	28522.50	2855.805	2031.519	3782.050

Reviewed By:kareem
On:12/13/2024 7:24:03 PM
Inst Id :P5

Sample Name: P4976-05 Acquired: 12/10/2024 20:48:59 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME29E1 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0231738	.0085585	.0442903	-.040307	-.016393	15.60152
Stddev	.0045685	.0011535	.0008619	.005071	.002527	.14251
%RSD	19.71402	13.47797	1.946035	12.58071	15.41374	.9134552
#1	.0232202	.0092739	.0441513	-.034523	-.014040	15.68928
#2	.0185823	.0091738	.0435064	-.043989	-.016077	15.67821
#3	.0277189	.0072278	.0452133	-.042409	-.019064	15.43709

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0617103	.0017077	.0011326	F 983.9569	.0459516	.0741492
Stddev	.0010347	.0001178	.0000697	8.0771	.0006725	.0002578
%RSD	1.676739	6.897259	6.156013	.8208774	1.463502	.3476361
#1	.0607474	.0017946	.0010652	988.8699	.0462388	.0738598
#2	.0628043	.0017549	.0011282	988.3660	.0451833	.0742334
#3	.0615792	.0015737	.0012044	974.6349	.0464330	.0743543

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0638916	61.08296	2.099601	226.8406	.0841808	-.006507
Stddev	.0079888	.62660	.015667	1.5279	.0016660	.000603
%RSD	12.50370	1.025825	.7462063	.6735608	1.979066	9.268480
#1	.0726382	61.35292	2.110399	227.6150	.0860883	-.007157
#2	.0620567	61.52934	2.106773	227.8263	.0830108	-.006399
#3	.0569799	60.36663	2.081631	225.0806	.0834434	-.005965

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7365090	.0727529	.1506714	1.134215	1.935237	-.141823
Stddev	.4410427	.0049606	.0096002	.179244	.004373	.001279
%RSD	59.88287	6.818467	6.371604	15.80333	.2259908	.9015899
#1	1.052001	.0712753	.1616569	1.228378	1.935024	-.140373
#2	.924981	.0686990	.1438932	1.246753	1.930974	-.142305
#3	.232545	.0782845	.1464640	.927514	1.939713	-.142790

Reviewed By:kareem
On:12/13/2024 7:24:03 PM
Inst Id :P5

Sample Name: P4976-05 Acquired: 12/10/2024 20:48:59 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME29E1 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0072441	1.209158	2.010616	.0066381	.5604215	.7374731
Stddev	.0004930	.003853	.018451	.0012061	.0058037	.0050931
%RSD	6.806240	.3186522	.9176823	18.16979	1.035591	.6906179
#1	.0073687	1.204863	2.004814	.0056252	.5647730	.7401755
#2	.0076628	1.212311	2.031270	.0079724	.5626594	.7406454
#3	.0067007	1.210300	1.995763	.0063169	.5538320	.7315983

Elem	Li6707
Units	ppm
Avg	-.040664
Stddev	.002532
%RSD	6.225920
#1	-.039242
#2	-.043587
#3	-.039164

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2422.848	26339.39	2777.644	1857.778	3266.961
Stddev	4.911	119.90	26.670	18.968	4.505
%RSD	.2027130	.4552115	.9601734	1.021017	.1378810
#1	2427.009	26201.02	2766.754	1836.089	3269.171
#2	2424.105	26404.54	2758.142	1865.982	3269.934
#3	2417.430	26412.62	2808.036	1871.264	3261.778

Reviewed By:kareem
On:12/13/2024 7:24:03 PM
Inst Id :P5

Sample Name: P4976-06 Acquired: 12/10/2024 20:52:52 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME29E2 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0168328	.0095613	.0376529	-.038467	-.017561	14.37466
Stddev	.0009474	.0010534	.0035553	.006161	.004045	.06456
%RSD	5.628591	11.01720	9.442189	16.01680	23.03625	.4490963
#1	.0178334	.0104849	.0339127	-.033900	-.022199	14.34337
#2	.0167157	.0084141	.0380574	-.045475	-.015716	14.44890
#3	.0159494	.0097849	.0409886	-.036027	-.014766	14.33170

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0567190	.0017080	.0012056	F 1437.216	.0388602	.0742087
Stddev	.0004497	.0000999	.0001480	6.788	.0007247	.0004150
%RSD	.7927882	5.850095	12.27943	.4722947	1.864925	.5592315
#1	.0567477	.0017379	.0012102	1435.573	.0396399	.0737297
#2	.0562556	.0015965	.0010553	1444.674	.0382072	.0744624
#3	.0571535	.0017895	.0013513	1431.400	.0387334	.0744338

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0698094	58.04696	2.276348	485.5091	.0766543	-.004590
Stddev	.0056204	.17702	.011046	2.5376	.0006634	.000991
%RSD	8.051129	.3049681	.4852507	.5226628	.8654814	21.59749
#1	.0696085	58.04902	2.271543	484.5326	.0765668	-.005722
#2	.0642920	58.22294	2.288982	488.3898	.0760389	-.004171
#3	.0755275	57.86891	2.268517	483.6048	.0773571	-.003877

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5516689	.0731065	.1472358	1.077381	1.924709	-.124873
Stddev	.3176463	.0026662	.0103521	.069117	.011797	.001753
%RSD	57.57916	3.647066	7.030990	6.415301	.6128988	1.403612
#1	.8827792	.0702453	.1359318	1.061391	1.914076	-.126830
#2	.2494621	.0755215	.1562540	1.017661	1.922652	-.124343
#3	.5227653	.0735527	.1495216	1.153092	1.937399	-.123447

Reviewed By:kareem
On:12/13/2024 7:24:03 PM
Inst Id :P5

Sample Name: P4976-06 Acquired: 12/10/2024 20:52:52 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME29E2 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0050264	1.633368	2.028463	.0048762	.4779059	.9548931
Stddev	.0003253	.009800	.008663	.0007715	.0071544	.0043823
%RSD	6.471034	.5999956	.4270929	15.82123	1.497021	.4589313
#1	.0053818	1.623250	2.038463	.0043827	.4802184	.9534281
#2	.0047437	1.634036	2.023684	.0057652	.4836179	.9598202
#3	.0049536	1.642816	2.023242	.0044807	.4698813	.9514309

Elem	Li6707
Units	ppm
Avg	-.035253
Stddev	.000970
%RSD	2.752857
#1	-.035744
#2	-.034135
#3	-.035879

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2350.933	25820.54	2744.784	1822.302	3082.877
Stddev	9.928	83.25	16.911	12.443	11.057
%RSD	.4222942	.3224043	.6161107	.6828384	.3586620
#1	2355.485	25811.34	2741.882	1822.153	3092.627
#2	2357.768	25742.28	2729.512	1809.934	3085.141
#3	2339.545	25908.01	2762.958	1834.820	3070.864

Reviewed By:kareem
On:12/13/2024 7:24:03 PM
Inst Id :P5

Sample Name: P4976-07 Acquired: 12/10/2024 20:56:45 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME29E3 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0112640	.0135791	.0334448	-.042944	-.019242	13.41952
Stddev	.0015992	.0020323	.0012495	.003144	.002331	.21538
%RSD	14.19761	14.96628	3.736038	7.322263	12.11528	1.604964
#1	.0129602	.0113748	.0320216	-.039520	-.018039	13.61824
#2	.0110481	.0153784	.0343615	-.045703	-.021929	13.44967
#3	.0097837	.0139842	.0339515	-.043609	-.017759	13.19066

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0603826	.0014020	.0010906	F 1381.264	.0399794	.0687039
Stddev	.0025564	.0000657	.0000514	20.443	.0002497	.0013575
%RSD	4.233627	4.686099	4.717283	1.480051	.6246026	1.975838
#1	.0605516	.0013907	.0011270	1399.110	.0402369	.0688288
#2	.0628503	.0014726	.0010317	1385.723	.0397383	.0699946
#3	.0577459	.0013427	.0011131	1358.959	.0399631	.0672883

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0518302	59.43081	2.633460	320.9699	.0653152	-.005693
Stddev	.0076288	.88352	.045025	4.0846	.0005345	.001059
%RSD	14.71878	1.486634	1.709709	1.272571	.8182607	18.60527
#1	.0507495	60.18945	2.679199	324.7110	.0647681	-.004547
#2	.0447995	59.64221	2.631996	321.5868	.0658361	-.006636
#3	.0599418	58.46077	2.589186	316.6120	.0653414	-.005896

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4064724	.0649405	.1222305	-.053085	2.057526	-.136996
Stddev	.6496633	.0057130	.0032016	.036973	.027398	.004371
%RSD	159.8296	8.797240	2.619288	69.64894	1.331607	3.190897
#1	-.341570	.0688997	.1185350	-.090498	2.049171	-.141640
#2	.731638	.0675305	.1239920	-.016568	2.088129	-.136386
#3	.829349	.0583912	.1241646	-.052188	2.035277	-.132961

Reviewed By:kareem
On:12/13/2024 7:24:03 PM
Inst Id :P5

Sample Name: P4976-07 Acquired: 12/10/2024 20:56:45 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME29E3 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0034468	1.939063	1.894734	.0071339	.5480340	.8545525
Stddev	.0006100	.023829	.035324	.0006951	.0064253	.0121774
%RSD	17.69600	1.228903	1.864313	9.743865	1.172422	1.425002
#1	.0038228	1.933951	1.933547	.0078386	.5543752	.8662422
#2	.0037746	1.965034	1.886187	.0071143	.5481992	.8554755
#3	.0027430	1.918205	1.864468	.0064488	.5415278	.8419399

Elem	Li6707
Units	ppm
Avg	-.043972
Stddev	.003514
%RSD	7.990861
#1	-.046986
#2	-.040113
#3	-.044819

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2375.666	26057.99	2757.273	1848.066	3147.784
Stddev	34.006	117.27	42.789	8.156	50.930
%RSD	1.431440	.4500451	1.551843	.4413509	1.617965
#1	2385.336	26182.95	2717.607	1856.755	3163.555
#2	2337.871	25950.33	2751.594	1846.870	3090.835
#3	2403.789	26040.68	2802.617	1840.574	3188.964

Reviewed By:kareem
On:12/13/2024 7:24:03 PM
Inst Id :P5

Sample Name: P4976-08 Acquired: 12/10/2024 21:00:38 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME29E4 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1358245	.0113222	.0347980	-.036397	-.016872	18.99390
Stddev	.0016859	.0029733	.0039387	.003459	.002062	.05237
%RSD	1.241241	26.26114	11.31870	9.503091	12.22285	.2757053
#1	.1375753	.0137679	.0346755	-.039786	-.015802	19.03400
#2	.1342120	.0121859	.0387966	-.036531	-.019250	19.01304
#3	.1356862	.0080126	.0309221	-.032873	-.015565	18.93465

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0857347	.0016194	.0010054	F 1215.966	.0507979	.0781615
Stddev	.0017064	.0000690	.0000381	2.190	.0009220	.0012554
%RSD	1.990285	4.259869	3.787989	.1801207	1.815011	1.606141
#1	.0865318	.0016838	.0010480	1218.251	.0497379	.0795680
#2	.0837756	.0015466	.0009938	1215.764	.0512423	.0777620
#3	.0868967	.0016276	.0009745	1213.884	.0514134	.0771544

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0660984	61.97881	2.601331	184.0246	.0904830	-.005386
Stddev	.0020288	.08107	.005933	.4398	.0016450	.000561
%RSD	3.069425	.1308081	.2280746	.2390129	1.817979	10.41654
#1	.0682368	61.96003	2.608129	184.5143	.0922539	-.005765
#2	.0642006	62.06762	2.597201	183.8965	.0901927	-.004742
#3	.0658578	61.90877	2.598662	183.6630	.0890026	-.005652

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7203467	.0666032	.1702331	.5330554	1.833531	-.155673
Stddev	.6240615	.0115558	.0068972	.0545333	.011531	.000841
%RSD	86.63348	17.35027	4.051614	10.23033	.6288736	.5400899
#1	.5093989	.0640171	.1760799	.5651617	1.846732	-.155022
#2	.2290975	.0792330	.1719928	.4700899	1.828431	-.156622
#3	1.422544	.0565596	.1626265	.5639146	1.825429	-.155375

Reviewed By:kareem
On:12/13/2024 7:24:03 PM
Inst Id :P5

Sample Name: P4976-08 Acquired: 12/10/2024 21:00:38 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME29E4 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0130228	14.34935	2.242661	.0048503	.7133570	1.065706
Stddev	.0002191	.12063	.018418	.0022609	.0016954	.001629
%RSD	1.682195	.8406862	.8212715	46.61344	.2376671	.1528418
#1	.0132579	14.48831	2.222106	.0045945	.7118134	1.067239
#2	.0129860	14.28830	2.248209	.0072282	.7130860	1.065885
#3	.0128244	14.27146	2.257667	.0027282	.7151716	1.063995

Elem	Li6707
Units	ppm
Avg	-.038324
Stddev	.002852
%RSD	7.442828
#1	-.041524
#2	-.036050
#3	-.037398

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2425.875	26706.89	2777.723	1896.895	3246.817
Stddev	18.283	26.75	6.461	7.068	28.448
%RSD	.7536864	.1001605	.2325832	.3726075	.8761780
#1	2405.140	26723.68	2782.655	1895.439	3214.253
#2	2432.802	26720.95	2780.104	1904.578	3259.359
#3	2439.682	26676.04	2770.410	1890.669	3266.838

Reviewed By:kareem
On:12/13/2024 7:24:03 PM
Inst Id :P5

Sample Name: P4976-11 Acquired: 12/10/2024 21:04:28 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME29E5 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0069962	.0096515	.0385048	-.043969	-.021648	15.60653
Stddev	.0033697	.0021511	.0037445	.004110	.001339	.06513
%RSD	48.16475	22.28823	9.724757	9.347576	6.184238	.4173037
#1	.0038377	.0113559	.0416881	-.039563	-.023124	15.55103
#2	.0105434	.0072345	.0394472	-.047699	-.020514	15.67823
#3	.0066076	.0103640	.0343791	-.044644	-.021305	15.59034

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0851962	.0014507	.0013582	F 1474.637	.0446644	.0721511
Stddev	.0013018	.0000713	.0000114	5.808	.0005654	.0006876
%RSD	1.527977	4.913486	.8409033	.3938261	1.265911	.9529798
#1	.0856439	.0014512	.0013514	1473.735	.0443774	.0713990
#2	.0837297	.0013791	.0013518	1480.842	.0443001	.0727475
#3	.0862150	.0015217	.0013714	1469.333	.0453158	.0723068

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0606201	66.02459	4.650221	440.4382	.0735783	-.006476
Stddev	.0065447	.13969	.020045	2.3929	.0004012	.001574
%RSD	10.79629	.2115778	.4310564	.5433096	.5453302	24.30512
#1	.0578405	66.00468	4.643145	440.1471	.0739310	-.004692
#2	.0680958	66.17316	4.672844	442.9633	.0736621	-.007670
#3	.0559239	65.89591	4.634673	438.2041	.0731418	-.007067

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3657178	.0685909	.1254588	.4159255	2.057990	-.147742
Stddev	.3983395	.0031210	.0079109	.0315179	.005822	.002605
%RSD	108.9199	4.550179	6.305605	7.577780	.2828843	1.762972
#1	.0294704	.0716905	.1235846	.4101298	2.061996	-.149291
#2	.8056459	.0654489	.1186533	.4499391	2.060663	-.149200
#3	.2620370	.0686334	.1341386	.3877077	2.051312	-.144735

Reviewed By:kareem
On:12/13/2024 7:24:03 PM
Inst Id :P5

Sample Name: P4976-11 Acquired: 12/10/2024 21:04:28 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME29E5 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0073923	3.804718	2.237566	.0048674	.3775141	.9219702
Stddev	.0000499	.003105	.017792	.0004665	.0043057	.0050461
%RSD	.6756069	.0816162	.7951544	9.583242	1.140550	.5473187
#1	.0074218	3.801451	2.220654	.0044665	.3759185	.9193711
#2	.0073346	3.807631	2.256124	.0053794	.3823899	.9277860
#3	.0074204	3.805073	2.235920	.0047564	.3742340	.9187534

Elem	Li6707
Units	ppm
Avg	-.029317
Stddev	.004184
%RSD	14.27331
#1	-.033522
#2	-.025153
#3	-.029275

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2353.203	25828.25	2738.274	1817.707	3052.663
Stddev	8.500	144.98	12.060	8.485	6.778
%RSD	.3612108	.5613415	.4404121	.4667942	.2220235
#1	2343.706	25663.94	2747.934	1807.942	3044.838
#2	2360.099	25938.17	2724.758	1821.891	3056.446
#3	2355.804	25882.65	2742.129	1823.286	3056.704

Reviewed By:kareem
On:12/13/2024 7:24:03 PM
Inst Id :P5

Sample Name: P4976-12 Acquired: 12/10/2024 21:08:19 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME29E6 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0264445	.0060403	.0480874	-.035439	-.012810	21.91365
Stddev	.0042766	.0002609	.0033537	.005994	.001671	.02586
%RSD	16.17194	4.319559	6.974206	16.91367	13.04445	.1180163
#1	.0227426	.0058444	.0472637	-.037975	-.011735	21.88715
#2	.0311258	.0059400	.0517763	-.039749	-.011960	21.91499
#3	.0254651	.0063365	.0452224	-.028594	-.014735	21.93882

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0852183	.0024766	.0015705	F 1156.238	.0769794	.0837465
Stddev	.0009068	.0000675	.0001238	2.923	.0003453	.0004125
%RSD	1.064107	2.723718	7.884857	.2528164	.4485977	.4925473
#1	.0847103	.0025336	.0015038	1155.238	.0765837	.0838234
#2	.0846793	.0024942	.0014943	1153.946	.0772195	.0833009
#3	.0862652	.0024021	.0017134	1159.530	.0771351	.0841151

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0731838	93.44275	2.479705	257.4942	.1213341	-.009479
Stddev	.0050807	.19629	.015288	.9935	.0008902	.000327
%RSD	6.942411	.2100647	.6165105	.3858161	.7336823	3.450129
#1	.0688134	93.41574	2.475649	257.4198	.1204394	-.009289
#2	.0719794	93.26136	2.466855	256.5400	.1213432	-.009857
#3	.0787584	93.65115	2.496612	258.5227	.1222197	-.009292

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0558253	.0831433	.2160494	.9596907	2.951225	-.230083
Stddev	.0731430	.0064663	.0030402	.0777697	.011330	.002225
%RSD	131.0211	7.777298	1.407176	8.103625	.3838997	.9670621
#1	.0079753	.0900211	.2195577	.8713507	2.959718	-.231990
#2	.1400220	.0771875	.2141876	1.017831	2.938361	-.227639
#3	.0194787	.0822213	.2144028	.989891	2.955597	-.230620

Reviewed By:kareem
On:12/13/2024 7:24:03 PM
Inst Id :P5

Sample Name: P4976-12 Acquired: 12/10/2024 21:08:19 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME29E6 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0072592	1.342128	2.370030	.0063793	.8438135	.7465704
Stddev	.0003603	.004902	.008075	.0003986	.0058034	.0036449
%RSD	4.962738	.3652415	.3407088	6.247802	.6877544	.4882190
#1	.0076747	1.337052	2.377884	.0068157	.8410539	.7449609
#2	.0070331	1.342499	2.361751	.0062876	.8399049	.7440073
#3	.0070699	1.346835	2.370456	.0060346	.8504818	.7507430

Elem	Li6707
Units	ppm
Avg	-.039150
Stddev	.000717
%RSD	1.831701
#1	-.039841
#2	-.038409
#3	-.039199

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2400.713	26336.37	2760.339	1864.287	3190.523
Stddev	7.539	42.99	11.485	11.876	8.735
%RSD	.3140392	.1632262	.4160808	.6370320	.2737929
#1	2401.162	26286.74	2753.531	1862.587	3193.209
#2	2408.018	26361.90	2773.599	1853.353	3197.601
#3	2392.960	26360.47	2753.885	1876.922	3180.761

Reviewed By:kareem
On:12/13/2024 7:24:03 PM
Inst Id :P5

Sample Name: P4976-13 Acquired: 12/10/2024 21:12:11 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME29E7 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0135722	.0114729	.0360920	-.034159	-.017425	13.12641
Stddev	.0038429	.0019159	.0014081	.002976	.000387	.03526
%RSD	28.31440	16.69952	3.901352	8.711262	2.218942	.2686405
#1	.0117338	.0119644	.0345274	-.034239	-.017265	13.13919
#2	.0179890	.0130953	.0372573	-.037095	-.017865	13.08654
#3	.0109938	.0093592	.0364913	-.031145	-.017143	13.15351

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0610181	.0013979	.0008809	F 1014.373	.0353406	.0637052
Stddev	.0006383	.0000316	.0000638	1.488	.0003302	.0002809
%RSD	1.046157	2.262497	7.244923	.1466691	.9342691	.4409791
#1	.0610531	.0013650	.0008518	1014.241	.0349594	.0633819
#2	.0603630	.0014005	.0008368	1012.955	.0355303	.0638431
#3	.0616382	.0014281	.0009541	1015.922	.0355322	.0638905

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0681599	51.68665	3.031032	270.3709	.0651192	-.004915
Stddev	.0092931	.11036	.005542	.7198	.0003819	.000811
%RSD	13.63422	.2135170	.1828580	.2662117	.5864056	16.49131
#1	.0787455	51.55965	3.030229	269.9410	.0651574	-.005709
#2	.0613438	51.74106	3.036932	269.9699	.0654805	-.004947
#3	.0643904	51.75924	3.025934	271.2019	.0647197	-.004089

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2423279	.0471642	.1336087	.5265529	1.624806	-.105994
Stddev	.4756045	.0146164	.0005771	.0752503	.003429	.002390
%RSD	196.2649	30.99045	.4319083	14.29112	.2110315	2.255159
#1	.7531603	.0476379	.1340287	.6018937	1.621030	-.107747
#2	.1615178	.0615380	.1329507	.5263715	1.627725	-.103271
#3	-.187694	.0323167	.1338468	.4513934	1.625664	-.106963

Reviewed By:kareem
On:12/13/2024 7:24:03 PM
Inst Id :P5

Sample Name: P4976-13 Acquired: 12/10/2024 21:12:11 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME29E7 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0034297	1.203187	1.940538	.0049995	.3657524	.8108655
Stddev	.0002181	.010268	.009029	.0016487	.0031353	.0014857
%RSD	6.358640	.8534194	.4652574	32.97787	.8572078	.1832276
#1	.0035941	1.209744	1.930143	.0048844	.3624328	.8111308
#2	.0035128	1.191353	1.945054	.0034113	.3661609	.8092650
#3	.0031823	1.208464	1.946417	.0067027	.3686633	.8122008

Elem	Li6707
Units	ppm
Avg	-.041351
Stddev	.005022
%RSD	12.14579
#1	-.046138
#2	-.036123
#3	-.041791

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2403.401	26283.37	2749.845	1853.099	3203.762
Stddev	8.908	51.69	8.008	5.997	12.765
%RSD	.3706493	.1966586	.2912074	.3236061	.3984460
#1	2401.428	26335.71	2757.605	1860.015	3202.822
#2	2413.130	26282.02	2750.320	1849.940	3216.972
#3	2395.644	26232.36	2741.611	1849.342	3191.494

Reviewed By:kareem
On:12/13/2024 7:24:03 PM
Inst Id :P5

Sample Name: CCV092 Acquired: 12/10/2024 21:29:13 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV092 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.879418	4.886209	24.78820	4.766514	4.830627	399.9370
Stddev	.008378	.010686	.07993	.017513	.015866	2.8888
%RSD	.1717089	.2186934	.3224379	.3674145	.3284505	.7223031
#1	4.881389	4.897975	24.88024	4.785956	4.848768	400.4971
#2	4.870230	4.883545	24.74813	4.751975	4.823776	396.8092
#3	4.886635	4.877108	24.73624	4.761612	4.819338	402.5047

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	10.04996	.5022142	2.495116	406.5919	15.57759	2.518021
Stddev	.07194	.0033573	.006968	2.8353	.08926	.008998
%RSD	.7157991	.6685062	.2792581	.6973209	.5729729	.3573440
#1	10.05572	.4990128	2.503109	407.7135	15.67453	2.528400
#2	9.97531	.5019215	2.491914	403.3675	15.55941	2.513261
#3	10.11884	.5057083	2.490324	408.6948	15.49882	2.512404

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	15.01912	407.3727	14.77285	404.0890	2.512688	1.254610
Stddev	.13887	2.4641	.14978	3.8636	.006844	.003484
%RSD	.9246024	.6048855	1.013875	.9561359	.2723632	.2777331
#1	15.07204	408.1400	14.83783	405.8764	2.519887	1.256532
#2	14.86157	404.6163	14.60156	399.6553	2.511913	1.256710
#3	15.12374	409.3620	14.87916	406.7353	2.506266	1.250588

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	395.7092	2.521186	14.01692	152.5307	5.000856	F 4.121511
Stddev	4.1264	.025617	.13086	.8961	.012060	.020222
%RSD	1.042788	1.016075	.9335898	.5874645	.2411512	.4906510
#1	396.9942	2.528513	14.14744	152.8304	5.012171	4.120988
#2	391.0932	2.492704	14.01760	151.5232	4.988169	4.101555
#3	399.0402	2.542342	13.88572	153.2386	5.002226	4.141989

Reviewed By:kareem
On:12/13/2024 7:24:03 PM
Inst Id :P5

Sample Name: CCV092 Acquired: 12/10/2024 21:29:13 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV092 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.821697	5.012847	4.880459	5.009845	4.981501	4.811191
Stddev	.012229	.022062	.034952	.013281	.042940	.045478
%RSD	.2536317	.4401121	.7161590	.2651053	.8619841	.9452515
#1	4.835387	5.030990	4.863980	5.024210	5.001997	4.838797
#2	4.817849	4.988288	4.856794	5.007313	4.932153	4.758701
#3	4.811854	5.019264	4.920604	4.998012	5.010352	4.836074

Elem	Li6707
Units	ppm
Avg	5.029089
Stddev	.038250
%RSD	.7605722
#1	5.019788
#2	4.996347
#3	5.071131

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2089.666	24094.40	2590.633	1596.553	3087.046
Stddev	7.703	204.66	14.471	13.949	10.238
%RSD	.3686022	.8494080	.5585958	.8737148	.3316339
#1	2085.251	23864.81	2591.104	1583.856	3082.079
#2	2085.188	24160.68	2604.863	1594.318	3080.240
#3	2098.561	24257.70	2575.932	1611.485	3098.820

Reviewed By:kareem
On:12/13/2024 7:24:03 PM
Inst Id :P5

Sample Name: CCB092 Acquired: 12/10/2024 21:52:51 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB092 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.003212	.0027546	-.002099	.0032934	.0021074	-.016136
Stddev	.002867	.0024373	.000543	.0019345	.0032290	.018915
%RSD	89.25116	88.48201	25.86793	58.73720	153.2199	117.2194
#1	-.000253	.0029035	-.002377	.0051291	.0018079	-.000918
#2	-.005978	.0051140	-.002447	.0012734	.0054757	-.037313
#3	-.003406	.0002462	-.001474	.0034778	-.000961	-.010178

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.004107	-.000058	.0001386	.0563196	-.000177	.0001308
Stddev	.000985	.000049	.0001198	.0220233	.000537	.0001455
%RSD	23.97957	85.57410	86.39963	39.10415	304.1686	111.2531
#1	-.004974	-.000111	.0002680	.0588489	.000088	.0001157
#2	-.004312	-.000048	.0001164	.0769690	.000177	.0002832
#3	-.003036	-.000014	.0000315	.0331408	-.000795	-.000007

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0092966	.0363111	.0003903	-.075663	-.000206	-.000008
Stddev	.0072025	.0414170	.0009959	.054971	.000270	.000741
%RSD	77.47445	114.0614	255.1971	72.65298	131.4795	8874.716
#1	.0162977	.0744459	-.000756	-.128812	-.000274	.000670
#2	.0096836	.0422372	.001043	-.019035	-.000435	-.000800
#3	.0019084	-.007750	.000884	-.079141	.000092	.000105

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.543347	-.002242	-.002356	-.579886	-.001145	-.003897
Stddev	.312209	.002492	.001543	.157873	.000883	.000792
%RSD	57.46030	111.1294	65.50244	27.22480	77.12518	20.32217
#1	-.344807	-.004201	-.002977	-.761882	-.000918	-.004742
#2	-.903214	-.003088	-.000599	-.479839	-.000397	-.003775
#3	-.382020	.000562	-.003493	-.497937	-.002119	-.003173

Reviewed By:kareem
On:12/13/2024 7:24:03 PM
Inst Id :P5

Sample Name: CCB092 Acquired: 12/10/2024 21:52:51 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB092 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000363	-.000352	-.000779	-.000587	.0065895	-.000047
Stddev	.000233	.002363	.000715	.000702	.0004258	.000172
%RSD	64.16916	671.7564	91.75610	119.6137	6.462517	363.6648
#1	-.000402	-.001300	-.000472	-.000299	.0067231	-.000146
#2	-.000113	-.002093	-.000269	-.001388	.0069324	-.000148
#3	-.000574	.002338	-.001596	-.000075	.0061128	.000151

Elem	Li6707
Units	ppm
Avg	F -.075180
Stddev	.003613
%RSD	4.806227
#1	-.076767
#2	-.071045
#3	-.077728

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2500.478	27816.91	2695.736	1970.069	3910.438
Stddev	2.021	78.36	6.635	9.206	8.255
%RSD	.0808308	.2816989	.2461464	.4673120	.2111134
#1	2498.475	27851.95	2691.710	1966.582	3901.693
#2	2502.517	27871.63	2692.103	1980.510	3918.096
#3	2500.443	27727.14	2703.394	1963.116	3911.525

Reviewed By:kareem
On:12/13/2024 7:24:03 PM
Inst Id :P5

Sample Name: P4976-14 Acquired: 12/10/2024 21:56:53 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME29E8 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0178422	.0091113	.0431709	-.037355	-.016532	17.00238
Stddev	.0014237	.0020773	.0020669	.005298	.003747	.05611
%RSD	7.979306	22.79930	4.787625	14.18402	22.66303	.3300321
#1	.0194860	.0079583	.0435245	-.043468	-.014258	17.06713
#2	.0170051	.0078661	.0409500	-.034514	-.020857	16.97198
#3	.0170354	.0115094	.0450381	-.034083	-.014482	16.96803

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0840522	.0017843	.0011514	F 1122.966	.0667869	.0720755
Stddev	.0013196	.0001552	.0000326	5.926	.0010434	.0008065
%RSD	1.569992	8.697654	2.834367	.5277460	1.562218	1.118890
#1	.0825444	.0017883	.0011138	1128.149	.0663691	.0728149
#2	.0846153	.0016272	.0011672	1124.245	.0660171	.0712156
#3	.0849968	.0019375	.0011731	1116.505	.0679744	.0721962

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0697025	67.47100	2.603579	217.1083	.0880534	-.006684
Stddev	.0053285	.25331	.022389	1.4732	.0012500	.000315
%RSD	7.644616	.3754288	.8599256	.6785652	1.419575	4.708248
#1	.0738764	67.64887	2.622550	218.5013	.0893011	-.006550
#2	.0715306	67.58314	2.609303	217.2574	.0868012	-.006458
#3	.0637006	67.18098	2.578884	215.5662	.0880579	-.007043

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5088904	.0750426	.1935290	.0791371	2.188158	-.169980
Stddev	.5214729	.0038233	.0081883	.0978889	.017143	.003541
%RSD	102.4725	5.094808	4.231061	123.6953	.7834631	2.083158
#1	1.107026	.0781452	.2017913	.0951054	2.200260	-.173740
#2	.269902	.0762111	.1933791	-.025754	2.168540	-.166709
#3	.149744	.0707714	.1854167	.168060	2.195674	-.169491

Reviewed By:kareem
On:12/13/2024 7:24:03 PM
Inst Id :P5

Sample Name: P4976-14 Acquired: 12/10/2024 21:56:53 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME29E8 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0016373	3.595615	3.140391	.0031099	.6014175	.7975970
Stddev	.0003970	.023227	.023827	.0004411	.0067037	.0056826
%RSD	24.24433	.6459795	.7587306	14.18340	1.114656	.7124665
#1	.0020479	3.622411	3.154530	.0033045	.6088873	.8024355
#2	.0016085	3.581221	3.112881	.0026050	.5994409	.7990162
#3	.0012556	3.583214	3.153761	.0034202	.5959243	.7913393

Elem	Li6707
Units	ppm
Avg	-.043483
Stddev	.002089
%RSD	4.805158
#1	-.042732
#2	-.045844
#3	-.041873

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2437.061	26755.68	2801.169	1896.950	3246.447
Stddev	22.876	109.44	14.722	13.852	29.195
%RSD	.9386886	.4090526	.5255813	.7302360	.8992882
#1	2446.724	26683.44	2784.293	1889.361	3255.834
#2	2453.521	26881.60	2807.831	1912.938	3269.795
#3	2410.939	26702.00	2811.382	1888.551	3213.714

Reviewed By:kareem
On:12/13/2024 7:24:03 PM
Inst Id :P5

Sample Name: P4976-15 Acquired: 12/10/2024 22:00:45 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME29E9 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0990230	.0089205	.0630818	-.036164	-.015887	18.94389
Stddev	.0012226	.0021414	.0015333	.002034	.002145	.07232
%RSD	1.234634	24.00547	2.430717	5.624801	13.50513	.3817636
#1	.0976544	.0087149	.0616567	-.033824	-.014925	18.97856
#2	.0994076	.0068893	.0647043	-.037510	-.014390	18.86076
#3	.1000071	.0111573	.0628846	-.037158	-.018345	18.99235

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0914867	.0026448	.0015949	F 1034.544	.0504787	.0895085
Stddev	.0005521	.0000743	.0001321	2.147	.0006422	.0005172
%RSD	.6035037	2.808413	8.280224	.2074883	1.272272	.5777847
#1	.0921130	.0025626	.0016599	1036.527	.0499953	.0891307
#2	.0910705	.0026647	.0014429	1032.265	.0502334	.0892969
#3	.0912765	.0027071	.0016818	1034.840	.0512074	.0900979

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1059040	90.77207	2.516364	199.1626	.1337647	-.009706
Stddev	.0060094	.09653	.004013	.2757	.0006404	.000981
%RSD	5.674336	.1063425	.1594798	.1384351	.4787704	10.10333
#1	.0993961	90.87607	2.517396	199.4656	.1337144	-.008730
#2	.1112431	90.75477	2.519760	198.9265	.1331508	-.009696
#3	.1070728	90.68535	2.511935	199.0958	.1344287	-.010691

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6919406	.1161286	.2004611	.8446369	1.907680	-.231700
Stddev	.6133021	.0079833	.0048085	.2072713	.003122	.002798
%RSD	88.63508	6.874513	2.398739	24.53969	.1636652	1.207474
#1	.0525632	.1100142	.1989202	.7720227	1.910654	-.234292
#2	1.275328	.1132113	.2058512	1.078445	1.907958	-.228734
#3	.747931	.1251602	.1966118	.683443	1.904428	-.232075

Reviewed By:kareem
On:12/13/2024 7:24:03 PM
Inst Id :P5

Sample Name: P4976-15 Acquired: 12/10/2024 22:00:45 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME29E9 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0135223	11.98420	2.165705	.0049199	.8122890	.8838023
Stddev	.0004121	.04898	.005213	.0001432	.0026478	.0009581
%RSD	3.047805	.4087078	.2406870	2.909754	.3259625	.1084076
#1	.0131052	11.94216	2.161770	.0048581	.8094100	.8847911
#2	.0135326	11.97246	2.163728	.0048180	.8146197	.8837378
#3	.0139293	12.03799	2.171617	.0050836	.8128372	.8828781

Elem	Li6707
Units	ppm
Avg	-.048236
Stddev	.001798
%RSD	3.727616
#1	-.050310
#2	-.047117
#3	-.047280

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2421.811	26559.67	2765.326	1875.657	3236.038
Stddev	7.994	77.20	6.549	7.796	5.633
%RSD	.3300930	.2906641	.2368264	.4156383	.1740847
#1	2429.294	26567.42	2767.126	1884.397	3241.068
#2	2422.751	26632.70	2770.787	1869.420	3237.095
#3	2413.389	26478.88	2758.066	1873.153	3229.950

Reviewed By:kareem
On:12/13/2024 7:24:03 PM
Inst Id :P5

Sample Name: P4976-16 Acquired: 12/10/2024 22:04:36 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME29F0 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0303830	.0094982	.0412573	-.031753	-.015178	16.16961
Stddev	.0018516	.0022225	.0009222	.004183	.002098	.05135
%RSD	6.094342	23.39895	2.235182	13.17213	13.82076	.3175559
#1	.0300881	.0103746	.0423220	-.035173	-.017450	16.12441
#2	.0323644	.0111489	.0407341	-.032998	-.014770	16.22544
#3	.0286965	.0069712	.0407156	-.027090	-.013315	16.15898

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0927363	.0017521	.0010673	F 913.0753	.0415911	.0702132
Stddev	.0006462	.0000685	.0000336	2.3425	.0008226	.0009623
%RSD	.6967914	3.912314	3.146353	.2565453	1.977787	1.370521
#1	.0924240	.0018079	.0010290	910.5931	.0416127	.0713235
#2	.0934793	.0017728	.0010914	915.2470	.0407579	.0696215
#3	.0923056	.0016756	.0010815	913.3858	.0424027	.0696945

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0645956	62.62698	2.070508	206.2885	.0836104	-.006056
Stddev	.0048872	.09107	.003355	.6344	.0008646	.000535
%RSD	7.565835	.1454175	.1620477	.3075102	1.034081	8.842164
#1	.0676718	62.53014	2.067086	205.5560	.0844089	-.006666
#2	.0671547	62.71090	2.073792	206.6545	.0826922	-.005839
#3	.0589602	62.63990	2.070647	206.6550	.0837301	-.005663

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8149085	.0617289	.1632171	.6182287	1.775070	-.146728
Stddev	.3079260	.0064171	.0025961	.0824281	.015499	.003554
%RSD	37.78657	10.39568	1.590599	13.33295	.8731256	2.421852
#1	.5402057	.0686234	.1652710	.5466166	1.791234	-.142638
#2	.7567550	.0606330	.1640811	.7083318	1.760336	-.148488
#3	1.147765	.0559303	.1602991	.5997376	1.773640	-.149058

Reviewed By:kareem
On:12/13/2024 7:24:03 PM
Inst Id :P5

Sample Name: P4976-16 Acquired: 12/10/2024 22:04:36 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME29F0 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0063162	1.129549	2.056597	.0039516	.5410041	.7273098
Stddev	.0002053	.009390	.014997	.0007611	.0034716	.0029970
%RSD	3.250788	.8312820	.7292257	19.25979	.6416965	.4120602
#1	.0060934	1.138883	2.039584	.0031496	.5430121	.7248156
#2	.0063572	1.129659	2.067901	.0040415	.5430048	.7306344
#3	.0064979	1.120105	2.062307	.0046637	.5369955	.7264796

Elem	Li6707
Units	ppm
Avg	-.051187
Stddev	.001664
%RSD	3.250219
#1	-.052968
#2	-.049674
#3	-.050920

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2441.850	26753.24	2795.416	1880.751	3302.056
Stddev	12.614	89.88	7.126	1.842	20.888
%RSD	.5165783	.3359775	.2549273	.0979541	.6325851
#1	2428.146	26651.47	2801.540	1882.826	3278.209
#2	2452.975	26821.77	2787.594	1879.310	3317.108
#3	2444.429	26786.49	2797.113	1880.117	3310.853

Reviewed By:kareem
On:12/13/2024 7:24:03 PM
Inst Id :P5

Sample Name: P4976-17 Acquired: 12/10/2024 22:08:29 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME29F1 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0307214	.0098293	.0406349	-.032512	-.016872	13.42612
Stddev	.0034024	.0008793	.0009979	.002494	.000644	.07654
%RSD	11.07487	8.945640	2.455848	7.670636	3.816916	.5700603
#1	.0268195	.0101632	.0414960	-.031184	-.016814	13.48133
#2	.0330687	.0088320	.0408676	-.030963	-.016259	13.33875
#3	.0322760	.0104928	.0395412	-.035389	-.017543	13.45828

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0860405	.0016220	.0009556	F 895.3996	.0360215	.0658004
Stddev	.0013200	.0000763	.0000602	3.6584	.0004899	.0006756
%RSD	1.534226	4.703005	6.296387	.4085785	1.359972	1.026762
#1	.0845293	.0015353	.0009717	895.0798	.0355464	.0665575
#2	.0866234	.0016789	.0008890	891.9115	.0359933	.0655852
#3	.0869686	.0016518	.0010060	899.2074	.0365249	.0652587

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0622326	59.65248	1.809240	245.0488	.0741047	-.006787
Stddev	.0037595	.27070	.013036	1.4959	.0015565	.001168
%RSD	6.041048	.4537893	.7205475	.6104688	2.100409	17.21398
#1	.0665734	59.47241	1.797652	244.5307	.0758704	-.005515
#2	.0601083	59.52125	1.806713	243.8808	.0735121	-.007812
#3	.0600162	59.96378	1.823355	246.7349	.0729315	-.007035

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1657682	.0648093	.1444119	.6898003	1.556688	-.139540
Stddev	.1047554	.0100491	.0085919	.0919333	.006111	.004197
%RSD	63.19388	15.50565	5.949598	13.32753	.3925790	3.007801
#1	.2788603	.0631622	.1406975	.6592369	1.558647	-.143097
#2	.1463882	.0556855	.1542361	.6170414	1.549837	-.134911
#3	.0720561	.0755802	.1383020	.7931226	1.561579	-.140613

Reviewed By:kareem
On:12/13/2024 7:24:03 PM
Inst Id :P5

Sample Name: P4976-17 Acquired: 12/10/2024 22:08:29 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME29F1 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0069514	1.050717	2.538472	.0098025	.5578147	.6090963
Stddev	.0000349	.006185	.033047	.0022632	.0028363	.0037071
%RSD	.5019713	.5886060	1.301850	23.08758	.5084731	.6086254
#1	.0069877	1.047707	2.545545	.0120356	.5558513	.6086316
#2	.0069484	1.046614	2.502462	.0075104	.5565263	.6056435
#3	.0069181	1.057830	2.567411	.0098616	.5610666	.6130139

Elem	Li6707
Units	ppm
Avg	-.048150
Stddev	.003271
%RSD	6.792960
#1	-.045114
#2	-.047722
#3	-.051613

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2398.379	26221.53	2747.628	1850.155	3247.002
Stddev	3.101	94.80	22.460	9.849	6.544
%RSD	.1292888	.3615408	.8174427	.5323187	.2015363
#1	2396.079	26311.39	2748.601	1858.350	3240.139
#2	2401.906	26122.46	2769.586	1839.229	3253.171
#3	2397.152	26230.73	2724.697	1852.885	3247.697

Reviewed By:kareem
On:12/13/2024 7:24:03 PM
Inst Id :P5

Sample Name: P4976-18 Acquired: 12/10/2024 22:12:22 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME29F2 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0156034	.0082365	.0560621	-.024257	-.017930	20.59076
Stddev	.0001259	.0019692	.0040706	.005722	.001502	.30215
%RSD	.8066775	23.90800	7.260943	23.59031	8.375567	1.467430
#1	.0157480	.0059743	.0514289	-.018640	-.019240	20.24623
#2	.0155439	.0091689	.0590643	-.030079	-.018258	20.81071
#3	.0155184	.0095664	.0576931	-.024053	-.016291	20.71533

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0874474	.0021687	.0016069	F 1114.627	.0600806	.0759319
Stddev	.0011178	.0000578	.0000728	15.737	.0011191	.0001039
%RSD	1.278235	2.665725	4.533601	1.411880	1.862670	.1368211
#1	.0864896	.0021046	.0015593	1096.756	.0587927	.0758904
#2	.0871770	.0022170	.0015707	1126.414	.0608152	.0758553
#3	.0886756	.0021845	.0016908	1120.711	.0606340	.0760502

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1052562	72.04411	2.124693	246.4150	.1198976	-.008966
Stddev	.0034476	.90193	.025679	2.9261	.0010199	.000902
%RSD	3.275442	1.251914	1.208578	1.187472	.8506741	10.05829
#1	.1058455	71.00418	2.095998	243.2454	.1196927	-.008560
#2	.1083712	72.61293	2.145509	249.0133	.1189956	-.008338
#3	.1015520	72.51522	2.132572	246.9865	.1210044	-.009999

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.033192	.0966968	.2195057	1.304995	3.404902	-.168978
Stddev	.701135	.0040197	.0051187	.153740	.011038	.006613
%RSD	2112.390	4.157004	2.331929	11.78086	.3241876	3.913459
#1	.619254	.0921535	.2253971	1.378561	3.393376	-.161343
#2	.055708	.0997910	.2161472	1.408128	3.405952	-.172761
#3	-.774537	.0981460	.2169730	1.128294	3.415378	-.172831

Reviewed By:kareem
On:12/13/2024 7:24:03 PM
Inst Id :P5

Sample Name: P4976-18 Acquired: 12/10/2024 22:12:22 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME29F2 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0064169	1.809662	3.020064	.0057200	.6505888	.8460484
Stddev	.0005024	.004571	.043038	.0019400	.0050498	.0106127
%RSD	7.828795	.2525987	1.425065	33.91622	.7761890	1.254382
#1	.0064683	1.804791	2.972873	.0079247	.6448266	.8347764
#2	.0068915	1.810337	3.057150	.0042740	.6526965	.8558480
#3	.0058908	1.813859	3.030170	.0049613	.6542434	.8475207

Elem	Li6707
Units	ppm
Avg	-.029583
Stddev	.000993
%RSD	3.356248
#1	-.030624
#2	-.029478
#3	-.028647

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2481.318	27065.68	2891.468	1914.530	3222.849
Stddev	4.394	71.67	33.143	10.073	2.294
%RSD	.1770978	.2647937	1.146240	.5261083	.0711734
#1	2482.707	27017.92	2926.380	1905.035	3224.859
#2	2484.851	27031.04	2860.435	1913.461	3220.350
#3	2476.398	27148.09	2887.589	1925.095	3223.338

Reviewed By:kareem
On:12/13/2024 7:24:03 PM
Inst Id :P5

Sample Name: P4976-19 Acquired: 12/10/2024 22:16:14 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME29F3 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0069896	.0105753	.0418495	-.031417	-.014880	21.98533
Stddev	.0038848	.0021735	.0028472	.003880	.001347	.07285
%RSD	55.58015	20.55272	6.803503	12.35003	9.050907	.3313568
#1	.0113605	.0123550	.0412943	-.026944	-.013581	21.94225
#2	.0039306	.0112181	.0393208	-.033423	-.014788	22.06944
#3	.0056777	.0081529	.0449334	-.033883	-.016270	21.94429

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1076652	.0022764	.0009516	F 912.1194	.0558455	.0824911
Stddev	.0011338	.0000555	.0001050	3.2781	.0002883	.0004633
%RSD	1.053109	2.439899	11.03793	.3593907	.5161914	.5616752
#1	.1089171	.0023099	.0009416	909.6378	.0559303	.0820431
#2	.1067073	.0023070	.0010613	915.8355	.0555244	.0829684
#3	.1073713	.0022123	.0008520	910.8848	.0560819	.0824620

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0613054	82.36128	2.207317	171.6629	.0996014	-.008078
Stddev	.0050988	.33923	.008595	.7171	.0012618	.000101
%RSD	8.317029	.4118744	.3894072	.4177586	1.266815	1.245931
#1	.0582924	82.29298	2.197864	171.0429	.1005929	-.008003
#2	.0584314	82.72946	2.214664	172.4483	.0981811	-.008038
#3	.0671924	82.06140	2.209421	171.4976	.1000303	-.008192

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0746234	.0798063	.1856135	.4358914	2.631357	-.210591
Stddev	.4140892	.0068237	.0017591	.1012315	.012885	.005583
%RSD	554.9054	8.550361	.9476947	23.22402	.4896804	2.651323
#1	.1317228	.0864614	.1876077	.5122577	2.617428	-.213324
#2	.4571997	.0801319	.1842822	.4743498	2.633792	-.214281
#3	-.365052	.0728256	.1849506	.3210665	2.642851	-.204167

Reviewed By:kareem
On:12/13/2024 7:24:03 PM
Inst Id :P5

Sample Name: P4976-19 Acquired: 12/10/2024 22:16:14 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME29F3 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0049260	1.627724	2.567342	.0027959	.7941515	.7550811
Stddev	.0002954	.002360	.032249	.0006290	.0071097	.0042374
%RSD	5.996538	.1449643	1.256106	22.49681	.8952516	.5611885
#1	.0050229	1.626812	2.568561	.0030009	.7869717	.7513128
#2	.0051607	1.625956	2.598964	.0032969	.8011888	.7596681
#3	.0045943	1.630403	2.534501	.0020900	.7942939	.7542624

Elem	Li6707
Units	ppm
Avg	-.039361
Stddev	.002693
%RSD	6.842417
#1	-.039576
#2	-.041940
#3	-.036567

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2499.031	27435.18	2863.917	1949.765	3340.711
Stddev	5.795	87.14	25.547	13.267	7.184
%RSD	.2318741	.3176369	.8920364	.6804620	.2150300
#1	2497.433	27513.48	2870.617	1963.136	3342.161
#2	2505.457	27450.75	2835.687	1949.557	3347.059
#3	2494.203	27341.30	2885.446	1936.603	3332.913

Reviewed By:kareem
On:12/13/2024 7:24:03 PM
Inst Id :P5

Sample Name: P4976-20 Acquired: 12/10/2024 22:20:05 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME29F4 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0215388	.0109708	.0460766	-.039749	-.018453	17.43764
Stddev	.0029978	.0035866	.0010116	.001116	.000915	.15550
%RSD	13.91810	32.69241	2.195425	2.806732	4.961200	.8917629
#1	.0234862	.0120429	.0457277	-.038483	-.017650	17.29405
#2	.0230436	.0138992	.0472165	-.040590	-.018258	17.60280
#3	.0180867	.0069704	.0452857	-.040174	-.019450	17.41608

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0640456	.0017830	.0013480	F 1202.538	.0471446	.0791032
Stddev	.0010926	.0000154	.0000784	9.543	.0006208	.0002712
%RSD	1.705974	.8644309	5.816394	.7935860	1.316740	.3428460
#1	.0627974	.0017671	.0013424	1193.253	.0476931	.0791446
#2	.0648287	.0017978	.0014291	1212.320	.0464707	.0793513
#3	.0645108	.0017841	.0012726	1202.042	.0472700	.0788137

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0759993	65.21113	2.403930	281.4331	.0907548	-.006568
Stddev	.0048271	.62985	.011212	2.4379	.0013048	.001308
%RSD	6.351525	.9658680	.4664211	.8662298	1.437690	19.91286
#1	.0736855	64.57125	2.392852	279.1729	.0917834	-.007216
#2	.0815477	65.83045	2.415272	284.0164	.0911940	-.005062
#3	.0727646	65.23171	2.403666	281.1101	.0892872	-.007425

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.260688	.0809847	.1585067	1.121188	2.470238	-.150861
Stddev	.422638	.0094406	.0083360	.132076	.022233	.001202
%RSD	162.1244	11.65731	5.259056	11.78003	.9000249	.7969169
#1	-.029459	.0903312	.1670770	1.025394	2.495806	-.151739
#2	-.748489	.0714527	.1504268	1.066315	2.459457	-.149491
#3	-.004115	.0811702	.1580163	1.271856	2.455451	-.151353

Reviewed By:kareem
On:12/13/2024 7:24:03 PM
Inst Id :P5

Sample Name: P4976-20 Acquired: 12/10/2024 22:20:05 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME29F4 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0072568	1.326566	2.953279	.0053587	.5499018	.8966101
Stddev	.0002448	.015706	.013917	.0006997	.0024648	.0057356
%RSD	3.373493	1.183933	.4712499	13.05810	.4482238	.6396973
#1	.0075388	1.343123	2.937443	.0056777	.5498496	.8914295
#2	.0071328	1.311879	2.963566	.0058421	.5474636	.9027737
#3	.0070988	1.324697	2.958829	.0045563	.5523923	.8956271

Elem	Li6707
Units	ppm
Avg	-.039757
Stddev	.002575
%RSD	6.477213
#1	-.042420
#2	-.037281
#3	-.039569

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2423.940	26486.73	2803.902	1875.822	3202.645
Stddev	7.425	66.02	17.438	7.438	13.388
%RSD	.3063241	.2492664	.6219131	.3964988	.4180192
#1	2417.603	26419.72	2823.451	1867.597	3188.147
#2	2422.106	26488.77	2789.949	1877.795	3205.247
#3	2432.110	26551.71	2798.306	1882.074	3214.540

Reviewed By:kareem
On:12/13/2024 7:24:03 PM
Inst Id :P5

Sample Name: P4976-21 Acquired: 12/10/2024 22:23:58 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME29F5 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0262139	.0084099	.0478192	-.036764	-.015592	18.58558
Stddev	.0009983	.0003694	.0034606	.001415	.002059	.06373
%RSD	3.808227	4.392296	7.236768	3.848892	13.20420	.3429228
#1	.0273115	.0080472	.0500688	-.036835	-.013815	18.52223
#2	.0259700	.0083968	.0495544	-.038143	-.015113	18.58483
#3	.0253601	.0087856	.0438343	-.035315	-.017848	18.64969

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0774765	.0020705	.0013392	F 1125.040	.0517297	.0812152
Stddev	.0010708	.0001145	.0001049	.935	.0000505	.0002167
%RSD	1.382153	5.528723	7.829130	.0831241	.0976323	.2667875
#1	.0778802	.0021124	.0013596	1124.430	.0517688	.0813777
#2	.0762624	.0021582	.0014324	1126.116	.0516727	.0809692
#3	.0782867	.0019410	.0012257	1124.573	.0517478	.0812986

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0936555	70.99390	2.499183	246.9159	.0969306	-.007411
Stddev	.0022353	.11100	.009084	1.0513	.0013687	.000921
%RSD	2.386686	.1563467	.3634855	.4257720	1.412024	12.43104
#1	.0950618	70.90439	2.508856	247.8203	.0953627	-.007502
#2	.0948268	70.95922	2.497859	247.1650	.0978867	-.006447
#3	.0910780	71.11810	2.490833	245.7625	.0975423	-.008283

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.082384	.0894665	.1724730	1.470479	2.214514	-.167200
Stddev	.071150	.0057826	.0015323	.117960	.008042	.006205
%RSD	86.36427	6.463393	.8884141	8.021882	.3631437	3.710910
#1	-.161306	.0838570	.1723633	1.384465	2.205539	-.165556
#2	-.023153	.0954079	.1709985	1.604951	2.216938	-.161982
#3	-.062693	.0891346	.1740572	1.422022	2.221065	-.174061

Reviewed By:kareem
On:12/13/2024 7:24:03 PM
Inst Id :P5

Sample Name: P4976-21 Acquired: 12/10/2024 22:23:58 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME29F5 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0121288	1.436713	2.221512	.0067012	.6038692	.8664220
Stddev	.0000879	.013062	.015737	.0005164	.0036176	.0028991
%RSD	.7249554	.9091778	.7083950	7.705949	.5990644	.3346027
#1	.0121598	1.422196	2.226736	.0061280	.5996997	.8695873
#2	.0120295	1.447517	2.203827	.0071300	.6061731	.8657828
#3	.0121969	1.440426	2.233972	.0068457	.6057349	.8638958

Elem	Li6707
Units	ppm
Avg	-.040756
Stddev	.004429
%RSD	10.86813
#1	-.036888
#2	-.045588
#3	-.039793

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2417.386	26588.64	2813.149	1879.711	3209.284
Stddev	5.515	177.57	2.918	11.713	9.462
%RSD	.2281406	.6678443	.1037215	.6231195	.2948369
#1	2417.628	26629.96	2812.091	1881.256	3218.010
#2	2411.754	26394.06	2816.448	1867.303	3199.227
#3	2422.776	26741.91	2810.907	1890.575	3210.614

Reviewed By:kareem
On:12/13/2024 7:24:03 PM
Inst Id :P5

Sample Name: P4880-14 Acquired: 12/10/2024 22:27:51 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHH91 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0768519	.0056387	5.172371	-.014854	-.002792	52.19065
Stddev	.0065193	.0041054	.006163	.002332	.001545	.10197
%RSD	8.482992	72.80762	.1191496	15.69874	55.34672	.1953842
#1	.0710757	.0103724	5.165721	-.017305	-.003798	52.19106
#2	.0755594	.0034928	5.173502	-.014593	-.003565	52.08847
#3	.0839207	.0030510	5.177890	-.012663	-.001013	52.29242

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.501758	.0051032	.0070887	233.9806	.1215557	.0926835
Stddev	.006637	.0000358	.0001269	.3739	.0003222	.0008239
%RSD	.2652769	.7013705	1.790280	.1598090	.2650359	.8889749
#1	2.502095	.0051440	.0071199	234.3198	.1213086	.0925950
#2	2.494959	.0050771	.0069491	233.5797	.1214385	.0919073
#3	2.508219	.0050885	.0071970	234.0424	.1219201	.0935480

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4908595	133.3113	5.218872	81.56640	.1408925	-.009581
Stddev	.0042871	.3543	.007434	.19205	.0004098	.000736
%RSD	.8733954	.2657457	.1424537	.2354545	.2908216	7.681425
#1	.4956365	133.5441	5.216117	81.51078	.1405142	-.010282
#2	.4895959	132.9036	5.227291	81.78012	.1408356	-.009647
#3	.4873463	133.4862	5.213209	81.40830	.1413278	-.008815

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8198461	.1476877	2.223199	3.885789	F 10.31062	-.326990
Stddev	.4240683	.0059101	.016443	.052005	.03483	.007958
%RSD	51.72535	4.001751	.7396218	1.338334	.3378290	2.433607
#1	.4009900	.1535541	2.241995	3.930879	10.27122	-.318052
#2	.8096072	.1477742	2.211476	3.828897	10.33733	-.333304
#3	1.248941	.1417349	2.216126	3.897590	10.32330	-.329614

Reviewed By:kareem
On:12/13/2024 7:24:03 PM
Inst Id :P5

Sample Name: P4880-14 Acquired: 12/10/2024 22:27:51 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHH91 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0035449	3.392898	10.70560	.1310760	.9451286	.2858058
Stddev	.0001912	.017148	.04099	.0004621	.0060680	.0005432
%RSD	5.393947	.5054228	.3829203	.3525732	.6420282	.1900727
#1	.0035727	3.382687	10.65907	.1307837	.9516586	.2863868
#2	.0033412	3.412697	10.73640	.1308356	.9396637	.2853105
#3	.0037206	3.383312	10.72133	.1316088	.9440635	.2857202

Elem	Li6707
Units	ppm
Avg	.0180616
Stddev	.0006251
%RSD	3.460862
#1	.0184479
#2	.0173405
#3	.0183966

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2710.676	30134.08	3031.871	2115.396	3540.274
Stddev	4.533	65.63	16.044	.543	2.762
%RSD	.1672459	.2177781	.5291847	.0256815	.0780152
#1	2707.418	30209.77	3049.757	2115.609	3537.452
#2	2708.756	30092.99	3018.745	2115.801	3542.972
#3	2715.853	30099.50	3027.113	2114.779	3540.396

Reviewed By:kareem
On:12/13/2024 7:24:03 PM
Inst Id :P5

Sample Name: P4880-15 Acquired: 12/10/2024 22:31:39 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHH91D Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0760937	.0042610	5.182937	-.016329	-.001888	51.75453
Stddev	.0035773	.0013292	.033256	.002646	.002931	.57540
%RSD	4.701145	31.19374	.6416520	16.20274	155.1887	1.111788
#1	.0747829	.0057954	5.144593	-.016013	.000252	52.10804
#2	.0801415	.0035241	5.200292	-.019119	-.000689	52.06497
#3	.0733567	.0034635	5.203925	-.013856	-.005228	51.09058

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.491391	.0050232	.0072317	231.8667	.1209036	.0927266
Stddev	.032914	.0001824	.0001304	2.7554	.0006951	.0006052
%RSD	1.321124	3.630714	1.802727	1.188339	.5749148	.6527011
#1	2.513420	.0048606	.0071074	233.1400	.1206112	.0920362
#2	2.507199	.0052204	.0072202	233.7551	.1204024	.0931654
#3	2.453555	.0049887	.0073674	228.7049	.1216971	.0929783

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4878136	132.0494	5.141823	80.51122	.1405366	-.010854
Stddev	.0122038	1.4399	.068461	1.19419	.0011728	.000660
%RSD	2.501737	1.090454	1.331446	1.483255	.8345197	6.076379
#1	.4962090	132.8502	5.171199	80.78407	.1392057	-.010852
#2	.4934175	132.9109	5.190693	81.54537	.1414187	-.010196
#3	.4738144	130.3871	5.063577	79.20422	.1409855	-.011515

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9009751	.1436621	2.215294	3.883049	F 10.33030	-.322246
Stddev	.3320695	.0058887	.005529	.154971	.07063	.001516
%RSD	36.85668	4.098985	.2496059	3.990955	.6837226	.4705110
#1	1.279348	.1457067	2.218259	3.868248	10.24880	-.321949
#2	.765601	.1370237	2.218709	3.736010	10.36846	-.323889
#3	.657976	.1482561	2.208914	4.044889	10.37364	-.320900

Reviewed By:kareem
On:12/13/2024 7:24:03 PM
Inst Id :P5

Sample Name: P4880-15 Acquired: 12/10/2024 22:31:39 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHH91D Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0037491	3.399251	10.57067	.1315106	.9343032	.2807642
Stddev	.0004084	.022252	.09984	.0005843	.0132558	.0044723
%RSD	10.89401	.6546003	.9445375	.4442609	1.418786	1.592912
#1	.0035257	3.374017	10.58943	.1312772	.9410873	.2822742
#2	.0042205	3.407676	10.65980	.1321755	.9427939	.2842860
#3	.0035011	3.416059	10.46277	.1310791	.9190285	.2757323

Elem	Li6707
Units	ppm
Avg	.0157417
Stddev	.0019812
%RSD	12.58556
#1	.0138221
#2	.0177792
#3	.0156239

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2716.472	30309.58	3079.826	2130.179	3541.175
Stddev	9.682	121.93	36.833	5.586	14.629
%RSD	.3564172	.4022756	1.195939	.2622205	.4131242
#1	2727.241	30169.03	3061.123	2125.874	3557.706
#2	2708.487	30372.78	3056.098	2136.491	3529.897
#3	2713.688	30386.94	3122.258	2128.173	3535.923

Reviewed By:kareem
On:12/13/2024 7:24:03 PM
Inst Id :P5

Sample Name: P4880-14LX5 Acquired: 12/10/2024 22:35:28 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHH91L Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0143539	.0025450	1.051739	-.000284	-.002324	11.57249	.5557310
Stddev	.0008349	.0015157	.001816	.002436	.001694	.04652	.0035718
%RSD	5.816867	59.55774	.1726884	859.1845	72.88386	.4019610	.6427187
#1	.0148176	.0024035	1.050756	-.003081	-.004124	11.52527	.5527535
#2	.0133900	.0011050	1.050627	.001372	-.002085	11.57393	.5547482
#3	.0148541	.0041265	1.053835	.000859	-.000762	11.61827	.5596913

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0011413	.0014629	52.54977	.0274222	.0309248	.1128779	29.94919
Stddev	.0000346	.0000135	.37301	.0003554	.0002873	.0022579	.28285
%RSD	3.035080	.9237730	.7098296	1.296094	.9288914	2.000287	.9444216
#1	.0011610	.0014736	52.12869	.0270186	.0312446	.1154783	29.73450
#2	.0011013	.0014674	52.68186	.0275595	.0306886	.1117400	29.84337
#3	.0011616	.0014477	52.83878	.0276884	.0308414	.1114153	30.26969

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.173678	18.26515	.0272726	-.002557	-.131217	.0267686	.4984918
Stddev	.012945	.10954	.0010961	.000937	.509614	.0049329	.0067948
%RSD	1.102925	.5997174	4.019040	36.63370	388.3757	18.42782	1.363068
#1	1.162917	18.21208	.0281252	-.001854	.403338	.0317069	.4938266
#2	1.170074	18.19225	.0260362	-.002195	-.185435	.0218412	.5062875
#3	1.188043	18.39112	.0276566	-.003620	-.611553	.0267579	.4953611

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2483479	2.051740	-.081863	-.000426	.6740660	2.515381	.0259245
Stddev	.0365618	.005440	.003139	.000040	.0057180	.016886	.0018700
%RSD	14.72201	.2651416	3.834338	9.353742	.8482864	.6713186	7.213346
#1	.2464730	2.054088	-.085294	-.000472	.6806557	2.521501	.0242071
#2	.2127596	2.045520	-.079135	-.000408	.6704132	2.496288	.0256496
#3	.2858111	2.055611	-.081161	-.000399	.6711292	2.528354	.0279168

Reviewed By:kareem
On:12/13/2024 7:24:03 PM
Inst Id :P5

Sample Name: P4880-14LX5 Acquired: 12/10/2024 22:35:28 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHH91L Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.2156842	.0633843	-.056885
Stddev	.0020013	.0003978	.002712
%RSD	.9279038	.6275430	4.768186
#1	.2133969	.0629963	-.054098
#2	.2165422	.0633655	-.059516
#3	.2171135	.0637912	-.057043

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2580.923	28479.73	2818.312	2002.781	3826.762
Stddev	8.680	82.54	14.171	6.134	11.462
%RSD	.3363000	.2898368	.5028202	.3062941	.2995329
#1	2590.437	28498.55	2816.312	2008.873	3839.229
#2	2573.437	28389.40	2833.377	1996.605	3824.376
#3	2578.895	28551.24	2805.247	2002.865	3816.680

Reviewed By:kareem
On:12/13/2024 7:24:03 PM
Inst Id :P5

Sample Name: P4880-16 Acquired: 12/10/2024 22:39:22 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHH91S Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1562442	.0937917	5.264206	.1328407	.1544531	55.54123
Stddev	.0023678	.0006512	.009121	.0015038	.0014509	.09163
%RSD	1.515418	.6942840	.1732622	1.132043	.9393997	.1649777
#1	.1589111	.0945250	5.253774	.1318784	.1549312	55.64440
#2	.1543893	.0935691	5.268166	.1320701	.1528234	55.50998
#3	.1554321	.0932809	5.270678	.1345736	.1556046	55.46931

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.039082	.0920205	.0990207	235.0656	.4945863	1.062428
Stddev	.015422	.0002517	.0000827	.3301	.0013491	.001102
%RSD	.2553723	.2735576	.0834976	.1404140	.2727657	.1037058
#1	6.055246	.0917309	.0990542	235.2550	.4936451	1.061156
#2	6.037471	.0921433	.0989265	235.2574	.4961319	1.063040
#3	6.024528	.0921872	.0990813	234.6845	.4939819	1.063088

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9081794	134.8839	6.111934	81.93588	1.118843	.0550910
Stddev	.0074113	.3745	.017967	.50116	.000256	.0009669
%RSD	.8160597	.2776232	.2939629	.6116451	.0228673	1.755123
#1	.9015151	135.0447	6.091432	81.35748	1.119134	.0558840
#2	.9161610	135.1511	6.124933	82.20932	1.118740	.0540138
#3	.9068621	134.4559	6.119437	82.24084	1.118655	.0553751

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7750085	1.035106	3.008667	3.780508	F 10.41824	-.336081
Stddev	.0850896	.001463	.020908	.086762	.01609	.001065
%RSD	10.97918	.1413136	.6949188	2.294985	.1544512	.3167512
#1	.7412677	1.035400	2.990205	3.757872	10.40585	-.334974
#2	.8717939	1.033518	3.031370	3.876344	10.41245	-.337097
#3	.7119639	1.036399	3.004427	3.707307	10.43643	-.336172

Reviewed By:kareem
On:12/13/2024 7:24:03 PM
Inst Id :P5

Sample Name: P4880-16 Acquired: 12/10/2024 22:39:22 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHH91S Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0035065	3.441273	10.68466	.1321867	.9564531	.2874552
Stddev	.0002514	.006676	.00644	.0007167	.0050159	.0003958
%RSD	7.169788	.1939968	.0602803	.5421909	.5244278	.1377006
#1	.0036051	3.440375	10.68150	.1327462	.9578667	.2871018
#2	.0032208	3.435092	10.69207	.1313788	.9606105	.2873808
#3	.0036937	3.448352	10.68042	.1324351	.9508821	.2878829

Elem	Li6707
Units	ppm
Avg	.0156538
Stddev	.0036048
%RSD	23.02823
#1	.0127749
#2	.0196968
#3	.0144897

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2710.584	29981.60	3053.671	2108.626	3533.408
Stddev	6.224	51.01	4.595	5.724	5.894
%RSD	.2296145	.1701361	.1504636	.2714749	.1668174
#1	2704.775	29923.10	3052.422	2106.918	3526.604
#2	2717.153	30016.78	3058.761	2115.010	3536.966
#3	2709.825	30004.92	3049.830	2103.950	3536.653

Reviewed By:kareem
On:12/13/2024 7:24:03 PM
Inst Id :P5

Sample Name: P4880-12DLX2 Acquired: 12/10/2024 22:43:08 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHH89 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0170966	.0101845	1.385479	-.027505	-.011549	17.69437	.5374278
Stddev	.0041578	.0027666	.003342	.001108	.003052	.06928	.0008424
%RSD	24.31923	27.16507	.2412044	4.028134	26.42954	.3915372	.1567518
#1	.0216130	.0069936	1.383523	-.028734	-.014101	17.69754	.5373384
#2	.0162486	.0116474	1.383575	-.026581	-.008168	17.62356	.5366337
#3	.0134282	.0119126	1.389337	-.027202	-.012380	17.76201	.5383114

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0016300	.0050272	485.2444	.0594113	.0538854	.1433623	48.85468
Stddev	.0000599	.0001014	1.9114	.0004241	.0004697	.0077503	.19600
%RSD	3.676408	2.016867	.3939029	.7137980	.8717330	5.406079	.4011922
#1	.0016583	.0049654	485.4024	.0597874	.0544275	.1478270	48.75022
#2	.0015612	.0051442	483.2589	.0594947	.0536003	.1344131	48.73305
#3	.0016705	.0049720	487.0719	.0589517	.0536283	.1478469	49.08079

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.272298	247.0565	.0764426	-.002836	.2842653	.0611423	1.398123
Stddev	.018422	.9131	.0010892	.000616	.3579433	.0065547	.013264
%RSD	.5629554	.3696067	1.424790	21.73795	125.9187	10.72043	.9487221
#1	3.275216	247.2607	.0774508	-.003295	.5621253	.0535746	1.413427
#2	3.252592	246.0586	.0765894	-.003077	.4103236	.0648188	1.389933
#3	3.289087	247.8503	.0752875	-.002135	-.119653	.0650336	1.391009

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.570047	3.539531	-.103190	.0009788	6.964202	6.236439	.0433801
Stddev	.028435	.007369	.002690	.0001923	.021130	.038237	.0004335
%RSD	1.811102	.2081775	2.606357	19.64540	.3034034	.6131222	.9992471
#1	1.586279	3.536048	-.105281	.0011837	6.946621	6.206420	.0432530
#2	1.537214	3.534550	-.104133	.0009506	6.958342	6.223410	.0438629
#3	1.586648	3.547995	-.100156	.0008022	6.987643	6.279488	.0430244

Reviewed By:kareem
On:12/13/2024 7:24:03 PM
Inst Id :P5

Sample Name: P4880-12DLX2 Acquired: 12/10/2024 22:43:08 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHH89 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.3692680	.2011401	-.046321
Stddev	.0020511	.0010318	.002791
%RSD	.5554447	.5129925	6.024249
#1	.3691026	.2020695	-.047298
#2	.3713968	.2000298	-.048492
#3	.3673047	.2013210	-.043174

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2442.045	26990.79	2797.319	1908.254	3318.007
Stddev	6.217	81.14	5.601	12.539	8.072
%RSD	.2545819	.3006056	.2002207	.6570721	.2432884
#1	2445.089	26908.82	2798.239	1899.751	3321.137
#2	2434.893	26992.46	2802.403	1902.356	3308.838
#3	2446.154	27071.07	2791.316	1922.653	3324.045

Reviewed By:kareem
On:12/13/2024 7:24:03 PM
Inst Id :P5

Sample Name: P4905-02 Acquired: 12/10/2024 22:46:57 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHA6 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1158708	.0067790	3.453736	-.000651	.0004069	72.10707
Stddev	.0007295	.0014592	.006275	.004800	.0012342	.44471
%RSD	.6296027	21.52485	.1816879	737.4738	303.3041	.6167343
#1	.1162518	.0051585	3.460831	-.000275	-.000816	71.62787
#2	.1163309	.0071897	3.451461	-.005628	.000385	72.18686
#3	.1150297	.0079887	3.448915	.003951	.001652	72.50649

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.331339	.0063553	.0101885	152.0334	.1551525	.1252908
Stddev	.014447	.0001031	.0000725	.8042	.0007092	.0010757
%RSD	.6196841	1.621687	.7116956	.5289528	.4570949	.8585757
#1	2.314847	.0063035	.0102496	151.1564	.1555420	.1257081
#2	2.337410	.0062884	.0101084	152.2078	.1555814	.1240690
#3	2.341760	.0064740	.0102074	152.7361	.1543339	.1260954

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4579089	187.7899	12.18021	36.90516	.2179714	-.013236
Stddev	.0055565	1.0925	.10490	.10106	.0014476	.000829
%RSD	1.213455	.5817427	.8612408	.2738308	.6641073	6.259842
#1	.4521627	186.5388	12.10481	36.87473	.2178923	-.012586
#2	.4583100	188.2760	12.13581	36.82281	.2165650	-.014169
#3	.4632540	188.5550	12.30001	37.01793	.2194569	-.012954

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6700862	.1817898	2.281144	12.93221	F 23.32303	-.458083
Stddev	.2990597	.0068211	.010120	.02580	.07778	.002165
%RSD	44.63003	3.752197	.4436152	.1995101	.3334950	.4726229
#1	.8079705	.1800821	2.274891	12.90247	23.41274	-.456142
#2	.8753296	.1759848	2.292819	12.94545	23.27448	-.457689
#3	.3269587	.1893025	2.275722	12.94869	23.28186	-.460418

Reviewed By:kareem
On:12/13/2024 7:24:03 PM
Inst Id :P5

Sample Name: P4905-02 Acquired: 12/10/2024 22:46:57 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHA6 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0059678	4.919730	8.754117	.1823251	1.310986	.1986922
Stddev	.0001010	.021339	.065288	.0015404	.010671	.0013428
%RSD	1.692361	.4337522	.7457997	.8448689	.8139521	.6758364
#1	.0059410	4.942094	8.709906	.1837409	1.300767	.1975694
#2	.0060795	4.917507	8.723340	.1806847	1.310134	.1983275
#3	.0058830	4.899589	8.829105	.1825498	1.322058	.2001797

Elem	Li6707
Units	ppm
Avg	.0256056
Stddev	.0028207
%RSD	11.01582
#1	.0223489
#2	.0271921
#3	.0272758

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3031.574	33579.30	3412.623	2382.952	3618.944
Stddev	11.949	166.77	19.294	12.759	12.918
%RSD	.3941395	.4966338	.5653837	.5354251	.3569638
#1	3026.461	33449.75	3426.146	2378.775	3608.162
#2	3045.228	33520.70	3421.194	2372.805	3633.262
#3	3023.032	33767.46	3390.528	2397.276	3615.409

Reviewed By:kareem
On:12/13/2024 7:24:03 PM
Inst Id :P5

Sample Name: P4905-03 Acquired: 12/10/2024 22:50:45 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHA6D Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1212827	.0050905	3.408955	-.004005	.0011709	72.24084
Stddev	.0011085	.0023814	.004852	.000886	.0022801	.16066
%RSD	.9139800	46.78102	.1423293	22.13004	194.7278	.2223980
#1	.1212597	.0073650	3.404476	-.004547	-.000257	72.13728
#2	.1201858	.0052916	3.414109	-.004487	.003800	72.42592
#3	.1224024	.0026150	3.408280	-.002983	-.000031	72.15932

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.325609	.0064470	.0101329	150.8689	.1548602	.1242082
Stddev	.007199	.0001716	.0000538	.2972	.0003833	.0006775
%RSD	.3095568	2.661686	.5307407	.1970067	.2474842	.5454718
#1	2.317582	.0062578	.0100794	150.8859	.1544365	.1234269
#2	2.331494	.0064908	.0101869	151.1572	.1551827	.1245635
#3	2.327750	.0065925	.0101325	150.5635	.1549615	.1246342

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4562113	187.3063	12.08289	36.36022	.2152237	-.014005
Stddev	.0091298	.2402	.03053	.03856	.0004556	.001034
%RSD	2.001214	.1282537	.2526973	.1060569	.2116770	7.386141
#1	.4590527	187.1880	12.09689	36.40213	.2157269	-.013524
#2	.4635824	187.5828	12.10392	36.35230	.2148392	-.015193
#3	.4459987	187.1482	12.04787	36.32623	.2151052	-.013299

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9147972	.1812417	2.264571	12.91115	F 22.96912	-.452884
Stddev	1.022741	.0026850	.023477	.11193	.02793	.009588
%RSD	111.7998	1.481461	1.036704	.8669435	.1215810	2.117007
#1	-.171880	.1829307	2.291663	12.78282	22.93711	-.452011
#2	1.057700	.1826489	2.250221	12.96201	22.98853	-.443763
#3	1.858572	.1781456	2.251827	12.98862	22.98172	-.462878

Reviewed By:kareem
On:12/13/2024 7:24:03 PM
Inst Id :P5

Sample Name: P4905-03 Acquired: 12/10/2024 22:50:45 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHA6D Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0062942	4.818780	8.758232	.1795541	1.303688	.1968124
Stddev	.0001825	.010295	.013636	.0015782	.007313	.0014884
%RSD	2.899601	.2136493	.1556901	.8789731	.5609206	.7562601
#1	.0062905	4.813795	8.763983	.1785690	1.311198	.1983572
#2	.0061136	4.811926	8.742663	.1787189	1.303276	.1966922
#3	.0064785	4.830619	8.768050	.1813744	1.296590	.1953877

Elem	Li6707
Units	ppm
Avg	.0268716
Stddev	.0009359
%RSD	3.482716
#1	.0261818
#2	.0264961
#3	.0279369

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3014.321	33433.82	3383.454	2362.932	3614.714
Stddev	12.066	53.45	7.225	6.041	12.044
%RSD	.4002834	.1598805	.2135499	.2556399	.3331933
#1	3022.890	33373.78	3375.685	2357.118	3626.520
#2	3019.550	33476.23	3389.973	2369.176	3615.176
#3	3000.523	33451.46	3384.704	2362.503	3602.445

Reviewed By:kareem
On:12/13/2024 7:24:03 PM
Inst Id :P5

Sample Name: P4905-02LX5 Acquired: 12/10/2024 22:54:31 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHA6L Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0219213	.0037280	.6939128	.0020434	-.001635	17.38895	.5576250
Stddev	.0014718	.0035283	.0040961	.0010877	.000928	.02787	.0021417
%RSD	6.714078	94.64219	.5902840	53.23288	56.75258	.1602880	.3840691
#1	.0213640	.0002145	.6905275	.0026731	-.000765	17.42028	.5600956
#2	.0208095	.0072709	.6927450	.0007873	-.002612	17.36691	.5562944
#3	.0235903	.0036988	.6984659	.0026696	-.001529	17.37966	.5564852

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0015977	.0019388	36.52300	.0375510	.0355316	.1161207	45.50407
Stddev	.0000725	.0001703	.06404	.0003300	.0005626	.0042511	.15674
%RSD	4.535003	8.785214	.1753288	.8787303	1.583448	3.660944	.3444500
#1	.0016741	.0018544	36.59653	.0371726	.0361392	.1203884	45.62246
#2	.0015890	.0021348	36.47951	.0377015	.0350287	.1160875	45.56343
#3	.0015300	.0018271	36.49295	.0377789	.0354267	.1118863	45.32632

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.947279	8.825785	.0425796	-.003915	-.569574	.0412212	.5451300
Stddev	.015930	.107193	.0007901	.000396	.314877	.0086384	.0065754
%RSD	.5404874	1.214547	1.855516	10.11869	55.28284	20.95622	1.206215
#1	2.964176	8.823991	.0433926	-.004365	-.538654	.0495187	.5515700
#2	2.945125	8.933864	.0418146	-.003618	-.271298	.0418669	.5453930
#3	2.932536	8.719499	.0425315	-.003762	-.898771	.0322781	.5384270

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.391176	4.645649	-.114512	.0005119	.9651304	2.237856	.0371933
Stddev	.166246	.009589	.002520	.0003767	.0075026	.016437	.0002063
%RSD	6.952466	.2064158	2.200981	73.59152	.7773625	.7345010	.5546120
#1	2.341130	4.655268	-.112046	.0000835	.9728459	2.229445	.0373032
#2	2.255703	4.636089	-.117084	.0006609	.9578606	2.256797	.0373214
#3	2.576696	4.645589	-.114407	.0007914	.9646848	2.227328	.0369554

Reviewed By:kareem
On:12/13/2024 7:24:03 PM
Inst Id :P5

Sample Name: P4905-02LX5 Acquired: 12/10/2024 22:54:31 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHA6L Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.3187000	.0466030	-.057409
Stddev	.0025159	.0005107	.001060
%RSD	.7894405	1.095949	1.846130
#1	.3211133	.0471790	-.056193
#2	.3188941	.0464245	-.057900
#3	.3160927	.0462054	-.058134

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2622.171	29087.30	2857.952	2046.991	3837.728
Stddev	2.865	37.80	15.285	7.106	3.099
%RSD	.1092654	.1299541	.5348378	.3471535	.0807436
#1	2624.848	29046.43	2845.417	2041.783	3840.407
#2	2622.515	29121.01	2853.459	2044.104	3838.443
#3	2619.149	29094.45	2874.981	2055.087	3834.334

Reviewed By:kareem
On:12/13/2024 7:24:03 PM
Inst Id :P5

Sample Name: P4905-04 Acquired: 12/10/2024 22:58:25 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHA6S Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1924513	.0932737	3.441985	.1302796	.1408151	75.27971
Stddev	.0016847	.0007207	.015624	.0033236	.0021094	.31805
%RSD	.8754102	.7727014	.4539186	2.551099	1.497966	.4224844
#1	.1912484	.0934337	3.441514	.1336153	.1432365	75.06005
#2	.1943768	.0924865	3.426602	.1269683	.1393765	75.64442
#3	.1917287	.0939010	3.457839	.1302553	.1398322	75.13466

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.579634	.0869556	.1015263	149.9653	.4981135	1.110257
Stddev	.022067	.0006890	.0005409	.4617	.0013722	.003149
%RSD	.3954866	.7923817	.5327833	.3078536	.2754782	.2836042
#1	5.564116	.0875402	.1014227	149.8206	.4974187	1.111641
#2	5.604895	.0871307	.1010447	150.4820	.4972276	1.106654
#3	5.569891	.0861959	.1021115	149.5934	.4996941	1.112477

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8321025	187.3227	12.83088	35.96298	1.209336	.0447724
Stddev	.0038404	.8983	.08754	.41699	.004455	.0008771
%RSD	.4615269	.4795269	.6822253	1.159486	.3683913	1.959080
#1	.8286420	187.0362	12.87657	36.09477	1.210958	.0445868
#2	.8362342	188.3293	12.88612	36.29814	1.204298	.0457274
#3	.8314311	186.6027	12.72996	35.49602	1.212754	.0440029

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5261439	1.000497	3.024231	12.81113	F 22.87325	-.447710
Stddev	.1756239	.013586	.010378	.09871	.06055	.009130
%RSD	33.37944	1.357954	.3431494	.7704787	.2647267	2.039272
#1	.7276610	.987172	3.021337	12.82984	22.87396	-.455243
#2	.4057165	1.014331	3.015607	12.89914	22.81235	-.450331
#3	.4450541	.999987	3.035748	12.70441	22.93344	-.437556

Reviewed By:kareem
On:12/13/2024 7:24:03 PM
Inst Id :P5

Sample Name: P4905-04 Acquired: 12/10/2024 22:58:25 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHA6S Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0059626	4.830121	9.094536	.1782453	1.314739	.1944210
Stddev	.0000911	.012988	.098467	.0017220	.009315	.0013850
%RSD	1.526963	.2688970	1.082700	.9660733	.7084791	.7123652
#1	.0058617	4.827004	9.156652	.1797434	1.322178	.1954577
#2	.0059874	4.818975	9.145952	.1763640	1.317745	.1949571
#3	.0060386	4.844384	8.981005	.1786285	1.304292	.1928480

Elem	Li6707
Units	ppm
Avg	.0250733
Stddev	.0003469
%RSD	1.383692
#1	.0247862
#2	.0249749
#3	.0254588

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3010.604	33159.79	3346.585	2344.055	3615.782
Stddev	12.434	246.85	17.193	13.557	16.509
%RSD	.4129955	.7444192	.5137475	.5783630	.4565780
#1	2998.198	33356.19	3344.234	2356.440	3602.048
#2	3023.065	33240.49	3330.688	2346.154	3634.098
#3	3010.549	32882.69	3364.833	2329.570	3611.200

Reviewed By:kareem
On:12/13/2024 7:24:03 PM
Inst Id :P5

Sample Name: CCV093 Acquired: 12/10/2024 23:02:10 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV093 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.922014	4.856015	24.62699	4.707846	4.806947	397.6391
Stddev	.017473	.012731	.07432	.009293	.016591	.7906
%RSD	.3549989	.2621622	.3017969	.1973908	.3451438	.1988199
#1	4.931746	4.861357	24.62754	4.712950	4.811591	397.6399
#2	4.932453	4.865204	24.70103	4.713468	4.820721	398.4293
#3	4.901841	4.841484	24.55239	4.697120	4.788529	396.8481

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	10.00056	.4997943	2.477963	403.0076	15.44890	2.511584
Stddev	.00806	.0031033	.007604	1.3197	.05084	.008883
%RSD	.0806262	.6209239	.3068570	.3274512	.3290776	.3536872
#1	10.00986	.4996954	2.479733	402.5324	15.48645	2.512586
#2	9.99628	.5029458	2.484526	404.4990	15.46919	2.519924
#3	9.99555	.4967415	2.469631	401.9913	15.39105	2.502243

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	14.94271	401.6436	14.58495	399.9893	2.497045	1.238374
Stddev	.05554	1.4348	.01917	1.6896	.005904	.001868
%RSD	.3717022	.3572324	.1314521	.4224069	.2364260	.1508313
#1	14.93622	401.5649	14.57547	398.8728	2.497732	1.240129
#2	15.00121	403.1162	14.60702	401.9331	2.502575	1.238583
#3	14.89069	400.2498	14.57238	399.1621	2.490828	1.236411

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	396.1874	2.518365	13.87224	151.2175	4.959292	F 4.120720
Stddev	1.9593	.013288	.09524	.0898	.012203	.025424
%RSD	.4945379	.5276576	.6865327	.0593641	.2460704	.6169869
#1	395.7943	2.523124	13.76737	151.2681	4.957800	4.107681
#2	398.3134	2.528619	13.95335	151.2705	4.972173	4.150019
#3	394.4544	2.503352	13.89599	151.1138	4.947903	4.104462

Reviewed By:kareem
On:12/13/2024 7:24:03 PM
Inst Id :P5

Sample Name: CCV093 Acquired: 12/10/2024 23:02:10 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV093 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.784341	4.986897	4.845800	4.947847	4.971802	4.784939
Stddev	.012485	.032490	.033289	.018616	.019449	.021424
%RSD	.2609618	.6515028	.6869628	.3762499	.3911818	.4477343
#1	4.793370	5.016440	4.855850	4.953973	4.959202	4.773274
#2	4.789559	4.992149	4.872906	4.962629	4.994201	4.809664
#3	4.770093	4.952101	4.808644	4.926940	4.962003	4.771879

Elem	Li6707
Units	ppm
Avg	5.055516
Stddev	.012237
%RSD	.2420586
#1	5.043369
#2	5.055338
#3	5.067842

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2131.460	24509.36	2635.239	1619.713	3144.817
Stddev	1.181	82.57	19.524	8.163	5.023
%RSD	.0553896	.3368804	.7408728	.5039887	.1597188
#1	2132.631	24470.95	2635.265	1624.551	3149.697
#2	2131.479	24453.00	2615.702	1610.288	3139.663
#3	2130.270	24604.14	2654.749	1624.300	3145.091

Reviewed By:kareem
On:12/13/2024 7:24:03 PM
Inst Id :P5

Sample Name: CCB093 Acquired: 12/10/2024 23:05:46 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB093 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000017	.0006205	.0000364	.0049154	-.000246	-.002976
Stddev	.004187	.0008602	.0005247	.0008953	.000116	.009334
%RSD	25354.71	138.6377	1443.634	18.21482	47.28098	313.6895
#1	-.004792	.0015931	.0003173	.0058640	-.000345	.000425
#2	.003028	.0003086	-.000569	.0040852	-.000118	.004182
#3	.001714	-.000040	.000361	.0047968	-.000275	-.013533

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.004451	-.000075	.0001585	.0511098	-.000703	.0001655
Stddev	.000582	.000054	.0000286	.0195261	.000771	.0001618
%RSD	13.08364	71.50525	18.04187	38.20421	109.6150	97.79412
#1	-.004530	-.000049	.0001272	.0300778	-.000640	.0002640
#2	-.003833	-.000039	.0001648	.0545896	.000034	-.000021
#3	-.004990	-.000137	.0001833	.0686621	-.001504	.000254

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0061164	.0400290	.0003858	-.001602	-.000376	-.000472
Stddev	.0041966	.0125918	.0012513	.054484	.000298	.001152
%RSD	68.61282	31.45669	324.2926	3400.568	79.18325	244.3846
#1	.0100646	.0300601	-.000545	-.042032	-.000093	-.000462
#2	.0065754	.0541796	.001808	-.023132	-.000687	.000676
#3	.0017091	.0358473	-.000106	.060358	-.000349	-.001629

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.902265	.0009501	-.001867	-.680949	-.001540	.0110505
Stddev	.566755	.0050381	.005239	.062931	.001046	.0013339
%RSD	62.81468	530.2374	280.6948	9.241610	67.87754	12.07067
#1	-1.03608	.0001609	.003666	-.718039	-.002584	.0111076
#2	-.28058	.0063362	-.002514	-.608288	-.001544	.0123548
#3	-1.39013	-.003647	-.006752	-.716520	-.000493	.0096889

Reviewed By:kareem
On:12/13/2024 7:24:03 PM
Inst Id :P5

Sample Name: CCB093 Acquired: 12/10/2024 23:05:46 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB093 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000492	.0009657	-.001254	F -.009886	.0051956	.0001850
Stddev	.000166	.0034983	.000688	.001306	.0037273	.0002443
%RSD	33.68875	362.2603	54.86738	13.20891	71.73873	132.0471
#1	-.000330	.0035162	-.002003	-.011371	.0088987	.0004610
#2	-.000483	-.003022	-.000650	-.008918	.0052435	.0000972
#3	-.000661	.002403	-.001109	-.009368	.0014446	-.000003

Elem	Li6707
Units	ppm
Avg	F -.059361
Stddev	.002914
%RSD	4.909095
#1	-.060881
#2	-.056001
#3	-.061200

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2547.833	28242.38	2765.150	1994.898	3980.024
Stddev	3.694	130.00	.484	8.981	5.911
%RSD	.1450041	.4602878	.0175146	.4501948	.1485252
#1	2550.137	28219.29	2765.522	1996.704	3983.469
#2	2543.571	28125.47	2764.603	1985.152	3973.199
#3	2549.790	28382.37	2765.327	2002.839	3983.406

Reviewed By:kareem
On:12/13/2024 7:24:03 PM
Inst Id :P5

Sample Name: P4907-01A Acquired: 12/10/2024 23:09:46 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHE1A Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1097028	.0055845	1.468670	.0390791	-.005686	90.11370
Stddev	.0045619	.0008251	.005427	.0013696	.001788	.11370
%RSD	4.158381	14.77534	.3695376	3.504732	31.45307	.1261700
#1	.1092816	.0049851	1.473718	.0403492	-.007591	90.13017
#2	.1144607	.0065255	1.469363	.0392602	-.004043	90.21827
#3	.1053661	.0052427	1.462930	.0376280	-.005425	89.99267

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.872534	F 2.866450	.0096526	275.6316	.1545729	.1291605
Stddev	.003594	.016865	.0000553	.3711	.0003866	.0003715
%RSD	.1919253	.5883686	.5730021	.1346204	.2501151	.2876103
#1	1.875424	2.852562	.0096590	275.5198	.1541473	.1293811
#2	1.873669	2.861571	.0097044	276.0457	.1549026	.1293687
#3	1.868510	2.885217	.0095944	275.3294	.1546687	.1287316

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.532689	167.1622	9.826365	77.39768	.2243696	-.012759
Stddev	.011081	.4594	.039844	.41172	.0006377	.000984
%RSD	.7230064	.2748239	.4054759	.5319536	.2842082	7.715107
#1	1.542641	167.5185	9.780787	76.92441	.2245717	-.013879
#2	1.520747	167.3245	9.854583	77.67336	.2248817	-.012369
#3	1.534678	166.6437	9.843725	77.59527	.2236554	-.012030

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4409036	.2002629	4.011823	11.96986	F 17.56405	-.402741
Stddev	.3628734	.0015897	.030469	.22659	.02556	.002981
%RSD	82.30220	.7938281	.7594786	1.893026	.1455139	.7401549
#1	.4583837	.2018067	3.979679	11.72492	17.58213	-.399391
#2	.7947210	.2003512	4.040281	12.01265	17.57520	-.405100
#3	.0696061	.1986309	4.015509	12.17200	17.53481	-.403734

Reviewed By:kareem
On:12/13/2024 7:24:03 PM
Inst Id :P5

Sample Name: P4907-01A Acquired: 12/10/2024 23:09:46 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHE1A Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0038812	4.630822	8.101451	.0955700	.9379934	.2526134
Stddev	.0001190	.010623	.040510	.0005841	.0034617	.0013792
%RSD	3.066520	.2293873	.5000368	.6111960	.3690534	.5459733
#1	.0040185	4.632365	8.059397	.0962440	.9339978	.2511042
#2	.0038067	4.640589	8.104740	.0952557	.9400901	.2529275
#3	.0038185	4.619513	8.140217	.0952103	.9398923	.2538084

Elem	Li6707
Units	ppm
Avg	.0726861
Stddev	.0015931
%RSD	2.191710
#1	.0719832
#2	.0745098
#3	.0715654

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3083.404	33891.28	3503.411	2395.182	3470.931
Stddev	2.270	146.90	4.953	5.585	4.064
%RSD	.0736109	.4334316	.1413755	.2331912	.1170799
#1	3084.416	33838.18	3509.014	2393.721	3472.182
#2	3080.805	33778.32	3501.602	2390.472	3466.389
#3	3084.992	34057.35	3499.616	2401.353	3474.222

Reviewed By:kareem
On:12/13/2024 7:24:03 PM
Inst Id :P5

Sample Name: P4912-04A Acquired: 12/10/2024 23:13:32 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHJ4A Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1500882	.0051879	5.069676	.0409782	-.002201	91.49626
Stddev	.0043540	.0003842	.008596	.0015514	.001970	.41802
%RSD	2.900973	7.405476	.1695618	3.785908	89.48295	.4568748
#1	.1465516	.0049334	5.079600	.0417774	-.003971	91.57649
#2	.1487618	.0056298	5.064523	.0419670	-.000079	91.86835
#3	.1549511	.0050005	5.064906	.0391901	-.002554	91.04393

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.080004	.0080308	.0184250	180.6300	.2051855	.1275241
Stddev	.016695	.0000752	.0001359	.8393	.0000780	.0001710
%RSD	.5420356	.9364559	.7373835	.4646693	.0380360	.1341252
#1	3.078451	.0081153	.0185267	181.0707	.2051653	.1273266
#2	3.097421	.0080062	.0182707	181.1571	.2052716	.1276194
#3	3.064140	.0079710	.0184777	179.6621	.2051195	.1276262

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.741121	193.5576	12.54300	38.11442	.2409316	-.011676
Stddev	.013199	.7213	.04702	.18782	.0005214	.000717
%RSD	.7580499	.3726391	.3749088	.4927819	.2164053	6.141308
#1	1.746572	194.0659	12.58084	38.33096	.2404782	-.012148
#2	1.750721	193.8748	12.55781	38.01668	.2415013	-.010851
#3	1.726070	192.7321	12.49035	37.99563	.2408153	-.012029

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.417576	.2214253	7.551910	11.26671	F 17.25252	-.480659
Stddev	.806010	.0060120	.063285	.14234	.05165	.002210
%RSD	56.85832	2.715143	.8380020	1.263405	.2993904	.4598504
#1	.538641	.2149478	7.505228	11.20565	17.25994	-.482563
#2	1.591984	.2225017	7.623940	11.42940	17.19756	-.478235
#3	2.122103	.2268265	7.526563	11.16509	17.30006	-.481179

Reviewed By:kareem
On:12/13/2024 7:24:03 PM
Inst Id :P5

Sample Name: P4912-04A Acquired: 12/10/2024 23:13:32 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHJ4A Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0123158	4.425299	11.85512	.3543577	1.654800	.3456611
Stddev	.0000958	.004493	.07008	.0007631	.010582	.0019810
%RSD	.7778162	.1015396	.5911301	.2153321	.6394992	.5731167
#1	.0123598	4.427605	11.92719	.3543992	1.643859	.3465192
#2	.0122059	4.420121	11.78721	.3535748	1.664983	.3470686
#3	.0123816	4.428171	11.85096	.3550992	1.655558	.3433957

Elem	Li6707
Units	ppm
Avg	.0572325
Stddev	.0015382
%RSD	2.687589
#1	.0566864
#2	.0589693
#3	.0560420

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2954.202	32706.23	3294.195	2310.454	3619.398
Stddev	7.178	108.63	20.374	13.780	5.290
%RSD	.2429704	.3321341	.6184852	.5964224	.1461493
#1	2952.882	32697.40	3272.748	2307.462	3615.554
#2	2961.948	32602.28	3296.546	2298.415	3625.431
#3	2947.775	32819.00	3313.292	2325.484	3617.209

Reviewed By:kareem
On:12/13/2024 7:24:03 PM
Inst Id :P5

Sample Name: P4912-14 Acquired: 12/10/2024 23:17:17 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHK2 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2435263	.0104867	1.529701	.0006362	.0027644	82.86702
Stddev	.0051512	.0028307	.007178	.0014454	.0005186	.46135
%RSD	2.115269	26.99338	.4692567	227.2134	18.76081	.5567349
#1	.2494338	.0109046	1.537423	-.000814	.0024931	82.95212
#2	.2399716	.0130852	1.523231	.000646	.0033624	82.36904
#3	.2411735	.0074702	1.528451	.002077	.0024377	83.27989

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.094954	.0083819	.0088881	169.5468	.1314796	.1668895
Stddev	.021020	.0000241	.0001096	.6622	.0004682	.0005643
%RSD	.6791810	.2878381	1.233173	.3905966	.3560761	.3381290
#1	3.093015	.0083677	.0089117	169.8297	.1320175	.1675382
#2	3.074970	.0084097	.0089839	168.7902	.1311639	.1665119
#3	3.116877	.0083682	.0087686	170.0207	.1312573	.1666185

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4132097	288.8567	26.53730	34.53315	.2484011	-.022756
Stddev	.0045025	1.6115	.06718	.08883	.0012252	.000316
%RSD	1.089635	.5578973	.2531462	.2572188	.4932504	1.386495
#1	.4123222	289.6562	26.57328	34.62606	.2491337	-.022415
#2	.4092171	287.0018	26.45979	34.44907	.2469866	-.023037
#3	.4180898	289.9122	26.57882	34.52431	.2490828	-.022817

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.902477	.2296551	1.312454	11.82340	F 22.12028	-.729289
Stddev	.261436	.0057463	.016719	.07480	.11669	.009990
%RSD	13.74186	2.502139	1.273846	.6326308	.5275059	1.369832
#1	2.111432	.2235981	1.293401	11.82559	22.24227	-.740207
#2	1.609315	.2350298	1.324670	11.74753	22.00975	-.727055
#3	1.986686	.2303375	1.319292	11.89708	22.10883	-.720605

Reviewed By:kareem
On:12/13/2024 7:24:03 PM
Inst Id :P5

Sample Name: P4912-14 Acquired: 12/10/2024 23:17:17 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHK2 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0096551	4.214244	8.110236	.0736795	.8469967	.0014605
Stddev	.0004271	.025473	.053294	.0009590	.0013284	.0007066
%RSD	4.423975	.6044484	.6571195	1.301637	.1568405	48.37862
#1	.0101461	4.243201	8.167202	.0742229	.8466778	.0008216
#2	.0093690	4.195297	8.101912	.0725722	.8458567	.0022193
#3	.0094503	4.204233	8.061594	.0742435	.8484555	.0013405

Elem	Li6707
Units	ppm
Avg	.0285718
Stddev	.0011004
%RSD	3.851469
#1	.0274963
#2	.0285233
#3	.0296956

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3258.134	36040.31	3674.087	2543.316	3583.038
Stddev	10.534	73.87	27.047	11.052	19.782
%RSD	.3233072	.2049734	.7361578	.4345375	.5520918
#1	3247.828	36012.25	3646.256	2546.164	3562.104
#2	3268.882	35984.58	3675.729	2531.119	3601.419
#3	3257.691	36124.10	3700.275	2552.664	3585.590

Reviewed By:kareem
On:12/13/2024 7:24:03 PM
Inst Id :P5

Sample Name: P4912-15 Acquired: 12/10/2024 23:21:04 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHK3 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1504453	.0102477	.4645073	.0015831	-.004488	60.64463
Stddev	.0023279	.0026655	.0006033	.0014316	.002932	.20541
%RSD	1.547360	26.01036	.1298861	90.42898	65.32925	.3387126
#1	.1510832	.0099124	.4649266	.0022569	-.005413	60.60522
#2	.1478650	.0130649	.4638158	.0025534	-.006846	60.46178
#3	.1523879	.0077657	.4647795	-.000061	-.001205	60.86690

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.539587	.0059349	.0061064	160.5519	.1000251	.1349647
Stddev	.012882	.0001500	.0001204	.7109	.0002336	.0005364
%RSD	.5072300	2.527941	1.972182	.4428020	.2335207	.3974716
#1	2.531844	.0059000	.0059729	160.5593	.1002331	.1345728
#2	2.532460	.0060993	.0061398	159.8373	.1000698	.1347452
#3	2.554457	.0058054	.0062067	161.2591	.0997724	.1355761

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2135585	236.0050	25.63509	43.89311	.1848019	-.019307
Stddev	.0050339	.9889	.11228	.25458	.0016953	.000811
%RSD	2.357164	.4190376	.4379754	.5800096	.9173543	4.198187
#1	.2111406	235.7868	25.64774	43.90589	.1835205	-.020243
#2	.2193452	235.1435	25.51702	43.63237	.1841609	-.018848
#3	.2101898	237.0849	25.74050	44.14106	.1867242	-.018831

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8326182	.2023533	.7240492	8.960560	F 14.15042	-.578049
Stddev	.3241302	.0019735	.0034183	.130707	.06044	.002386
%RSD	38.92903	.9752921	.4721144	1.458696	.4271251	.4127254
#1	1.112115	.2044895	.7275229	8.999510	14.09981	-.580756
#2	.477297	.2005978	.7239358	8.814806	14.13412	-.577139
#3	.908442	.2019727	.7206890	9.067366	14.21734	-.576252

Reviewed By:kareem
On:12/13/2024 7:24:03 PM
Inst Id :P5

Sample Name: P4912-15 Acquired: 12/10/2024 23:21:04 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHK3 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0041967	2.114952	8.809509	.0641825	.5661281	-.025480
Stddev	.0001037	.004013	.040001	.0014049	.0069146	.000854
%RSD	2.471956	.1897441	.4540681	2.188923	1.221385	3.353429
#1	.0040963	2.114450	8.819468	.0629479	.5635420	-.024497
#2	.0041905	2.111214	8.843590	.0638884	.5608792	-.026044
#3	.0043035	2.119193	8.765470	.0657111	.5739629	-.025898

Elem	Li6707
Units	ppm
Avg	.0041610
Stddev	.0032987
%RSD	79.27778
#1	.0044591
#2	.0073005
#3	.0007233

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3071.210	34214.61	3432.411	2401.163	3611.638
Stddev	5.912	69.84	7.460	14.792	9.018
%RSD	.1924880	.2041227	.2173472	.6160299	.2496806
#1	3074.327	34133.99	3428.179	2384.285	3614.139
#2	3074.910	34253.52	3428.029	2411.871	3619.140
#3	3064.392	34256.33	3441.025	2407.334	3601.633

Reviewed By:kareem
On:12/13/2024 7:24:03 PM
Inst Id :P5

Sample Name: P4912-16 Acquired: 12/10/2024 23:24:53 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHL8 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1578375	-.000451	4.005919	.0083459	.0047607	85.77200
Stddev	.0028159	.001313	.011164	.0015981	.0010410	.05940
%RSD	1.784067	291.4377	.2786817	19.14795	21.86689	.0692515
#1	.1601285	.000526	4.002793	.0099170	.0037327	85.81051
#2	.1586903	-.001943	3.996652	.0067222	.0047352	85.80190
#3	.1546938	.000066	4.018313	.0083986	.0058143	85.70359

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.024696	.0077982	.0128871	69.29120	.1796999	.1547909
Stddev	.002707	.0000855	.0001394	.17310	.0003597	.0005649
%RSD	.1337145	1.095956	1.081477	.2498121	.2001432	.3649405
#1	2.025745	.0077228	.0127726	69.49106	.1796322	.1551804
#2	2.026721	.0078910	.0128464	69.18938	.1793789	.1541430
#3	2.021621	.0077807	.0130423	69.19315	.1800886	.1550493

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4995896	240.1350	13.11408	26.83088	.2648389	-.019371
Stddev	.0041065	.3978	.03061	.12112	.0010191	.000313
%RSD	.8219768	.1656613	.2334105	.4514261	.3847883	1.613494
#1	.4968119	240.5192	13.14784	26.80054	.2652189	-.019141
#2	.4976504	240.1611	13.10627	26.72782	.2636844	-.019244
#3	.5043066	239.7248	13.08814	26.96429	.2656133	-.019726

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8864716	.2198291	2.964630	10.44733	F 15.25486	-.608601
Stddev	.1948730	.0036053	.032787	.02453	.05606	.003667
%RSD	21.98299	1.640057	1.105945	.2348194	.3674649	.6025425
#1	.7060656	.2238734	2.999128	10.42795	15.26463	-.604462
#2	1.093147	.2169521	2.933875	10.43914	15.19456	-.611446
#3	.860203	.2186617	2.960887	10.47491	15.30539	-.609894

Reviewed By:kareem
On:12/13/2024 7:24:03 PM
Inst Id :P5

Sample Name: P4912-16 Acquired: 12/10/2024 23:24:53 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHL8 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0401059	5.403632	8.642045	.1567335	1.480265	-.013407
Stddev	.0001081	.018119	.037703	.0016104	.002045	.000172
%RSD	.2695844	.3353180	.4362773	1.027448	.1381358	1.284509
#1	.0402211	5.405678	8.603711	.1582943	1.481828	-.013262
#2	.0400067	5.384576	8.679085	.1550778	1.481017	-.013361
#3	.0400898	5.420641	8.643338	.1568284	1.477951	-.013597

Elem	Li6707
Units	ppm
Avg	.0404497
Stddev	.0025384
%RSD	6.275403
#1	.0431623
#2	.0381318
#3	.0400549

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2972.218	32956.28	3279.394	2319.976	3692.332
Stddev	2.209	88.36	13.032	6.926	4.739
%RSD	.0743255	.2681117	.3973821	.2985332	.1283535
#1	2971.519	32864.50	3289.611	2312.226	3688.288
#2	2974.692	32963.58	3264.718	2322.141	3697.547
#3	2970.443	33040.77	3283.853	2325.560	3691.160

Reviewed By:kareem
On:12/13/2024 7:24:03 PM
Inst Id :P5

Sample Name: P4912-17 Acquired: 12/10/2024 23:28:40 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHL9 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1688638	.0042640	4.538811	.0049499	.0006004	86.12696
Stddev	.0030626	.0013165	.022029	.0006005	.0009903	.38221
%RSD	1.813678	30.87454	.4853476	12.13120	164.9400	.4437732
#1	.1723128	.0057233	4.515784	.0051268	.0001976	86.26478
#2	.1664625	.0031657	4.540964	.0042809	.0017286	85.69496
#3	.1678161	.0039028	4.559684	.0054421	-.000125	86.42115

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.003171	.0073201	.0136288	101.6678	.1858456	.1298726
Stddev	.012295	.0000767	.0001245	.3469	.0006707	.0007876
%RSD	.6137922	1.047252	.9133608	.3411804	.3608937	.6064444
#1	2.008259	.0072416	.0135243	101.7544	.1850713	.1293471
#2	1.989148	.0073238	.0135955	101.2858	.1862185	.1307782
#3	2.012105	.0073948	.0137665	101.9632	.1862469	.1294926

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5179856	188.7875	12.36300	44.02771	.2299185	-.015418
Stddev	.0088045	.9601	.04612	.25413	.0012074	.000770
%RSD	1.699768	.5085493	.3730701	.5772058	.5251324	4.993486
#1	.5276513	189.3741	12.38340	44.12548	.2296283	-.016289
#2	.5158821	187.6795	12.31020	43.73921	.2288828	-.015141
#3	.5104232	189.3087	12.39541	44.21843	.2312446	-.014826

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4690286	.2149247	3.061965	9.234027	F 13.99882	-.483768
Stddev	.1632463	.0047185	.017878	.131474	.07632	.001760
%RSD	34.80519	2.195408	.5838701	1.423801	.5452015	.3637545
#1	.5129263	.2109410	3.059348	9.383705	13.92094	-.481931
#2	.2883217	.2201355	3.045539	9.137214	14.00204	-.485439
#3	.6058377	.2136976	3.081007	9.181161	14.07348	-.483933

Reviewed By:kareem
On:12/13/2024 7:24:03 PM
Inst Id :P5

Sample Name: P4912-17 Acquired: 12/10/2024 23:28:40 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHL9 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0071959	3.646418	8.629418	.1451289	1.469539	.0458105
Stddev	.0002670	.022255	.001625	.0017625	.009157	.0001630
%RSD	3.710563	.6103219	.0188352	1.214459	.6231093	.3558990
#1	.0073720	3.623467	8.631185	.1461818	1.479245	.0457054
#2	.0068887	3.647880	8.629083	.1461108	1.461055	.0459983
#3	.0073272	3.667905	8.627987	.1430941	1.468316	.0457278

Elem	Li6707
Units	ppm
Avg	.0452735
Stddev	.0024244
%RSD	5.355128
#1	.0453328
#2	.0428199
#3	.0476677

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2976.184	32775.38	3301.410	2312.187	3689.900
Stddev	3.107	82.95	14.320	8.225	9.245
%RSD	.1043887	.2530906	.4337633	.3557256	.2505520
#1	2978.767	32747.73	3285.475	2321.521	3700.575
#2	2977.048	32868.63	3305.553	2309.038	3684.492
#3	2972.736	32709.79	3313.202	2306.002	3684.632

Reviewed By:kareem
On:12/13/2024 7:24:03 PM
Inst Id :P5

Sample Name: P4912-18 Acquired: 12/10/2024 23:32:28 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHM0 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2384633	.0028821	4.402554	.0040133	.0022522	87.91187
Stddev	.0020556	.0018954	.009987	.0027427	.0015771	.67941
%RSD	.8620283	65.76568	.2268456	68.33868	70.02469	.7728267
#1	.2365318	.0007799	4.411594	.0030902	.0037938	88.49123
#2	.2406239	.0034058	4.404236	.0070984	.0006419	87.16409
#3	.2382343	.0044605	4.391833	.0018513	.0023209	88.08029

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.475142	.0081648	.0221719	98.69878	.1642556	.1413954
Stddev	.022867	.0002318	.0001780	.79459	.0018500	.0007031
%RSD	.9238544	2.838586	.8030092	.8050626	1.126285	.4972587
#1	2.495683	.0084193	.0223190	99.31520	.1662972	.1421418
#2	2.450503	.0081091	.0222227	97.80202	.1637793	.1412988
#3	2.479240	.0079659	.0219740	98.97911	.1626904	.1407456

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5492051	243.8100	13.73610	29.31732	.2405148	-.018206
Stddev	.0016707	2.1492	.09926	.25645	.0009069	.000134
%RSD	.3041973	.8815190	.7225975	.8747334	.3770820	.7343180
#1	.5487596	245.1542	13.81100	29.58704	.2414812	-.018215
#2	.5478023	241.3312	13.62352	29.07661	.2403810	-.018335
#3	.5510534	244.9445	13.77377	29.28830	.2396822	-.018068

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5306382	.2289146	3.431889	9.488743	F 15.35700	-.645230
Stddev	.3549585	.0113682	.041788	.117476	.04509	.010223
%RSD	66.89275	4.966143	1.217631	1.238052	.2936285	1.584419
#1	.7457806	.2414698	3.454645	9.363124	15.39572	-.657012
#2	.7251942	.2259557	3.383662	9.507220	15.36777	-.638698
#3	.1209398	.2193184	3.457360	9.595885	15.30749	-.639981

Reviewed By:kareem
On:12/13/2024 7:24:03 PM
Inst Id :P5

Sample Name: P4912-18 Acquired: 12/10/2024 23:32:28 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHM0 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0092144	3.278429	8.665735	.1643076	1.438379	.1060995
Stddev	.0005590	.011697	.086168	.0003448	.010092	.0006341
%RSD	6.066259	.3567731	.9943555	.2098727	.7016170	.5976960
#1	.0096931	3.291816	8.765062	.1643718	1.447566	.1068303
#2	.0086001	3.273284	8.621132	.1639352	1.427577	.1057744
#3	.0093499	3.270188	8.611011	.1646158	1.439994	.1056939

Elem	Li6707
Units	ppm
Avg	.0427905
Stddev	.0022367
%RSD	5.227032
#1	.0452683
#2	.0421822
#3	.0409208

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2993.939	33228.01	3324.444	2347.306	3691.159
Stddev	21.331	290.37	21.359	23.838	27.530
%RSD	.7124873	.8738612	.6424851	1.015550	.7458437
#1	2976.400	32978.38	3300.140	2329.559	3667.674
#2	2987.732	33546.67	3340.228	2374.401	3684.347
#3	3017.686	33158.99	3332.964	2337.957	3721.456

Reviewed By:kareem
On:12/13/2024 7:24:03 PM
Inst Id :P5

Sample Name: P4912-19 Acquired: 12/10/2024 23:36:15 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHM1 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2110821	.0019076	2.481651	.0050443	.0014611	98.55344
Stddev	.0014613	.0015180	.001956	.0026306	.0026979	.23529
%RSD	.6922942	79.57798	.0788235	52.14919	184.6473	.2387452
#1	.2107227	.0024978	2.482739	.0077478	-.000721	98.34852
#2	.2126896	.0030419	2.482822	.0024933	.004478	98.81039
#3	.2098340	.0001831	2.479393	.0048917	.000627	98.50140

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.684679	.0082464	.0130827	84.76000	.1628458	.1502345
Stddev	.004828	.0002187	.0000739	.18130	.0005328	.0000773
%RSD	.2865896	2.651436	.5649225	.2139036	.3272019	.0514575
#1	1.682952	.0080758	.0130753	84.59961	.1633093	.1503087
#2	1.690133	.0081705	.0131600	84.95672	.1622636	.1501544
#3	1.680951	.0084929	.0130127	84.72367	.1629644	.1502403

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3896816	233.0840	15.49678	27.61757	.2187206	-.018086
Stddev	.0056091	.9111	.04061	.02072	.0009447	.001850
%RSD	1.439405	.3908896	.2620722	.0750156	.4319450	10.22886
#1	.3890595	232.4553	15.49620	27.63823	.2197816	-.016197
#2	.3844095	234.1289	15.45646	27.61768	.2179704	-.018165
#3	.3955759	232.6678	15.53768	27.59679	.2184098	-.019895

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4401451	.2458215	2.239305	9.378359	F 13.75229	-.633357
Stddev	.2383599	.0014531	.005026	.110663	.01381	.004616
%RSD	54.15483	.5911096	.2244438	1.179977	.1004520	.7288889
#1	.5229895	.2443232	2.240957	9.416790	13.76799	-.628454
#2	.1714169	.2472247	2.243298	9.464683	13.74198	-.633996
#3	.6260290	.2459168	2.233662	9.253605	13.74690	-.637621

Reviewed By:kareem
On:12/13/2024 7:24:03 PM
Inst Id :P5

Sample Name: P4912-19 Acquired: 12/10/2024 23:36:15 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHM1 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0071578	2.512133	8.680123	.1577147	1.431803	.0403907
Stddev	.0000284	.006491	.045425	.0014845	.001546	.0017171
%RSD	.3972410	.2583743	.5233175	.9412383	.1079857	4.251269
#1	.0071643	2.517867	8.628828	.1560659	1.432467	.0413510
#2	.0071824	2.513445	8.696283	.1581336	1.432906	.0384082
#3	.0071266	2.505086	8.715258	.1589448	1.430036	.0414127

Elem	Li6707
Units	ppm
Avg	.0329137
Stddev	.0039266
%RSD	11.92983
#1	.0284037
#2	.0355724
#3	.0347649

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3062.606	33850.52	3399.113	2402.671	3702.258
Stddev	10.260	140.50	3.723	9.181	9.332
%RSD	.3350022	.4150739	.1095351	.3821229	.2520564
#1	3059.694	33691.17	3402.984	2394.304	3698.202
#2	3074.008	33903.81	3398.797	2401.217	3712.932
#3	3054.118	33956.58	3395.558	2412.492	3695.641

Reviewed By:kareem
On:12/13/2024 7:24:03 PM
Inst Id :P5

Sample Name: P4912-20 Acquired: 12/10/2024 23:40:01 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHM2 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1441673	.0065189	2.659313	-.011979	-.003593	63.11138
Stddev	.0016120	.0018695	.006411	.004521	.002111	.22944
%RSD	1.118123	28.67865	.2410911	37.74167	58.73905	.3635555
#1	.1426423	.0077512	2.651913	-.006996	-.003056	63.35522
#2	.1440055	.0074377	2.662808	-.013120	-.005921	63.07918
#3	.1458540	.0043678	2.663217	-.015819	-.001803	62.89973

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.492285	.0054230	.0064161	336.7828	.1311695	.1123473
Stddev	.010766	.0000055	.0001335	1.1067	.0003687	.0000945
%RSD	.7214188	.1022081	2.080482	.3286211	.2810962	.0841342
#1	1.504690	.0054176	.0063812	338.0441	.1315899	.1122948
#2	1.486781	.0054287	.0063035	336.3304	.1309009	.1122908
#3	1.485385	.0054229	.0065636	335.9739	.1310177	.1124565

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3503276	165.5006	13.37413	28.76917	.1379014	-.013331
Stddev	.0065481	.5881	.02933	.13743	.0011987	.001587
%RSD	1.869132	.3553643	.2193364	.4777104	.8692680	11.90764
#1	.3502871	166.1664	13.40743	28.84777	.1383446	-.011970
#2	.3437998	165.2835	13.36286	28.84927	.1365442	-.015074
#3	.3568958	165.0519	13.35210	28.61048	.1388154	-.012948

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6624937	.1574187	1.687236	7.642807	F 10.62509	-.404245
Stddev	.6966755	.0031829	.011173	.044733	.01324	.003194
%RSD	105.1596	2.021945	.6622083	.5853007	.1246496	.7902276
#1	.6615626	.1537632	1.676268	7.592839	10.61119	-.407800
#2	-.033716	.1595769	1.686838	7.679127	10.63756	-.401615
#3	1.359634	.1589159	1.698603	7.656454	10.62651	-.403319

Reviewed By:kareem
On:12/13/2024 7:24:03 PM
Inst Id :P5

Sample Name: P4912-20 Acquired: 12/10/2024 23:40:01 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHM2 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0042354	2.425584	8.723867	.1960089	1.246470	.5603982
Stddev	.0000541	.009681	.084686	.0008331	.007057	.0011948
%RSD	1.277593	.3991132	.9707341	.4250497	.5661217	.2132084
#1	.0042797	2.425855	8.820144	.1952014	1.252490	.5613156
#2	.0041751	2.415770	8.660905	.1959598	1.248216	.5608320
#3	.0042515	2.435126	8.690552	.1968655	1.238704	.5590471

Elem	Li6707
Units	ppm
Avg	.0338900
Stddev	.0021303
%RSD	6.286008
#1	.0357790
#2	.0343099
#3	.0315809

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2843.093	31432.87	3204.601	2208.130	3556.438
Stddev	8.255	46.88	24.228	10.407	13.320
%RSD	.2903605	.1491383	.7560427	.4713180	.3745325
#1	2851.806	31415.21	3176.631	2199.256	3571.167
#2	2835.388	31486.01	3218.092	2219.585	3545.237
#3	2842.085	31397.39	3219.080	2205.550	3552.909

Reviewed By:kareem
On:12/13/2024 7:24:03 PM
Inst Id :P5

Sample Name: P4912-21 Acquired: 12/10/2024 23:43:49 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHM3 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1251223	.0013910	.9164952	.0045831	.0015049	90.41106
Stddev	.0036317	.0032562	.0029972	.0029517	.0011464	.88240
%RSD	2.902544	234.0968	.3270309	64.40312	76.17934	.9759817
#1	.1283922	.0051491	.9130345	.0076345	.0023315	89.99079
#2	.1212135	-.000587	.9181940	.0017425	.0001962	91.42503
#3	.1257611	-.000389	.9182570	.0043723	.0019870	89.81737

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.258312	.0070117	.0048306	43.23767	.1162859	.1229664
Stddev	.009931	.0001870	.0000353	.38092	.0003680	.0001563
%RSD	.7892354	2.667370	.7300701	.8809839	.3164291	.1271046
#1	1.252201	.0068659	.0048445	43.08299	.1165300	.1230529
#2	1.269771	.0072226	.0047905	43.67159	.1164651	.1227860
#3	1.252965	.0069467	.0048568	42.95842	.1158627	.1230603

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2210344	208.8475	16.25036	21.44713	.1582758	-.019421
Stddev	.0100407	1.6409	.16607	.28413	.0001892	.000645
%RSD	4.542594	.7856851	1.021922	1.324792	.1195468	3.319980
#1	.2096426	208.2556	16.19074	21.37896	.1580675	-.018801
#2	.2285972	210.7023	16.43800	21.75915	.1583229	-.020088
#3	.2248634	207.5848	16.12233	21.20329	.1584370	-.019375

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.008234	.2159426	.7046468	6.985676	F 11.28660	-.535113
Stddev	.339305	.0059379	.0034511	.057186	.02251	.008667
%RSD	4120.877	2.749746	.4897628	.8186188	.1994462	1.619588
#1	.370984	.2098620	.7023460	7.049872	11.26439	-.535729
#2	-.112560	.2217266	.7086150	6.940184	11.28601	-.543455
#3	-.283126	.2162394	.7029794	6.966972	11.30940	-.526155

Reviewed By:kareem
On:12/13/2024 7:24:03 PM
Inst Id :P5

Sample Name: P4912-21 Acquired: 12/10/2024 23:43:49 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHM3 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0042146	1.695742	8.099552	.1779853	1.504767	-.002596
Stddev	.0002553	.008264	.089595	.0009497	.016833	.000529
%RSD	6.057057	.4873433	1.106171	.5336061	1.118671	20.39240
#1	.0044390	1.686364	8.072973	.1773808	1.496500	-.002987
#2	.0039369	1.701960	8.199429	.1774951	1.524135	-.001994
#3	.0042678	1.698902	8.026254	.1790800	1.493665	-.002807

Elem	Li6707
Units	ppm
Avg	.0212110
Stddev	.0038681
%RSD	18.23642
#1	.0172610
#2	.0213804
#3	.0249917

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3049.425	33865.84	3356.678	2381.399	3737.246
Stddev	2.681	86.77	39.526	9.523	5.749
%RSD	.0879276	.2562267	1.177532	.3999030	.1538340
#1	3050.459	33770.62	3371.200	2371.281	3738.404
#2	3051.435	33886.47	3311.945	2382.728	3742.329
#3	3046.381	33940.45	3386.889	2390.188	3731.007

Reviewed By:kareem
On:12/13/2024 7:24:03 PM
Inst Id :P5

Sample Name: P4912-22 Acquired: 12/10/2024 23:47:37 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHM4 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1153887	.0105242	2.010220	-.013594	-.004064	76.59253
Stddev	.0030915	.0027262	.010040	.004069	.000903	.26163
%RSD	2.679212	25.90387	.4994642	29.92841	22.22580	.3415884
#1	.1165487	.0136560	2.020938	-.018026	-.003021	76.51338
#2	.1118849	.0086823	2.001033	-.012726	-.004587	76.88460
#3	.1177323	.0092344	2.008689	-.010029	-.004585	76.37961

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.967801	.0069109	.0104735	385.9195	.1512023	.1290853
Stddev	.003286	.0000864	.0000650	1.3628	.0006153	.0006474
%RSD	.1669869	1.250712	.6207525	.3531283	.4069466	.5015485
#1	1.966414	.0069042	.0105407	385.0656	.1510769	.1298161
#2	1.971553	.0068281	.0104110	387.4912	.1506594	.1285833
#3	1.965435	.0070005	.0104689	385.2018	.1518707	.1288566

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3908420	191.7166	14.88132	108.6416	.2219050	-.018177
Stddev	.0036778	.5771	.07885	.8243	.0021465	.000978
%RSD	.9409932	.3010089	.5298641	.7587313	.9673005	5.377770
#1	.3866418	191.7131	14.81390	107.8304	.2239151	-.017828
#2	.3923987	192.2954	14.96802	109.4784	.2196441	-.019281
#3	.3934854	191.1413	14.86205	108.6159	.2221557	-.017422

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.176513	.1883600	4.509222	15.30938	F 20.01518	-.414689
Stddev	.488076	.0040490	.029652	.19189	.17361	.009559
%RSD	41.48500	2.149614	.6575950	1.253446	.8673956	2.305023
#1	1.320926	.1911513	4.505997	15.19750	20.19228	-.419656
#2	1.576087	.1902125	4.540356	15.53096	19.84528	-.403669
#3	.632525	.1837161	4.481314	15.19968	20.00796	-.420742

Reviewed By:kareem
On:12/13/2024 7:24:03 PM
Inst Id :P5

Sample Name: P4912-22 Acquired: 12/10/2024 23:47:37 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHM4 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0059229	6.697395	10.52623	.0958346	1.030704	.2281976
Stddev	.0002549	.057509	.07222	.0015267	.016501	.0020656
%RSD	4.303896	.8586778	.6860586	1.593066	1.600911	.9051917
#1	.0061636	6.753391	10.47122	.0967857	1.047343	.2259355
#2	.0056558	6.638484	10.49947	.0966445	1.030426	.2299837
#3	.0059493	6.700311	10.60801	.0940736	1.014345	.2286736

Elem	Li6707
Units	ppm
Avg	.0348360
Stddev	.0032265
%RSD	9.262056
#1	.0311202
#2	.0364587
#3	.0369290

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2874.857	31785.95	3278.597	2246.014	3388.363
Stddev	.692	98.23	20.170	2.389	11.560
%RSD	.0240663	.3090413	.6151998	.1063524	.3411703
#1	2875.017	31890.32	3300.223	2247.751	3376.723
#2	2874.099	31695.30	3275.273	2243.290	3399.842
#3	2875.455	31772.25	3260.296	2247.001	3388.523

Reviewed By:kareem
On:12/13/2024 7:24:03 PM
Inst Id :P5

Sample Name: P4914-11A Acquired: 12/10/2024 23:51:25 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHK4A Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6019463	-.001074	6.224898	-.001100	.0069288	78.32217
Stddev	.0033355	.000966	.006907	.000964	.0031218	.20980
%RSD	.5541236	89.95384	.1109500	87.57818	45.05486	.2678683
#1	.6050805	-.000061	6.230802	-.001965	.0058953	78.14242
#2	.5984405	-.001175	6.217303	-.000061	.0044548	78.27139
#3	.6023180	-.001986	6.226590	-.001275	.0104362	78.55270

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.350706	.0067954	.0094187	86.86090	.2235648	.1161869
Stddev	.002178	.0000972	.0001080	.16209	.0023124	.0004657
%RSD	.0926741	1.430392	1.146579	.1866084	1.034327	.4008348
#1	2.349757	.0067928	.0095247	86.68550	.2227177	.1161603
#2	2.353198	.0066995	.0093088	86.89201	.2261813	.1157350
#3	2.349163	.0068939	.0094227	87.00517	.2217954	.1166653

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.511993	204.2722	7.836028	41.71150	.2117373	-.018867
Stddev	.010555	.2692	.031375	.13656	.0002693	.000795
%RSD	.6981055	.1317642	.4003900	.3273929	.1271990	4.212597
#1	1.501464	204.5086	7.801080	41.58215	.2115778	-.018798
#2	1.511939	203.9793	7.845233	41.69807	.2120482	-.019694
#3	1.522575	204.3288	7.861770	41.85428	.2115859	-.018109

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.059096	.2262135	3.572822	9.318950	F 12.81052	-.501998
Stddev	.464558	.0057764	.052786	.068375	.03463	.007807
%RSD	43.86365	2.553511	1.477421	.7337206	.2702956	1.555111
#1	1.591241	.2237562	3.587478	9.244801	12.84494	-.494766
#2	.851596	.2328122	3.616731	9.379510	12.77569	-.500954
#3	.734451	.2220720	3.514257	9.332538	12.81092	-.510274

Reviewed By:kareem
On:12/13/2024 7:24:03 PM
Inst Id :P5

Sample Name: P4914-11A Acquired: 12/10/2024 23:51:25 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHK4A Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0092626	6.376283	9.327179	.1217171	3.218554	.0955659
Stddev	.0000508	.028681	.093886	.0006950	.015898	.0017476
%RSD	.5478883	.4498149	1.006589	.5709616	.4939492	1.828649
#1	.0093166	6.385348	9.262167	.1218304	3.202803	.0936458
#2	.0092158	6.344164	9.284555	.1223484	3.218264	.0959886
#3	.0092554	6.399337	9.434817	.1209724	3.234595	.0970634

Elem	Li6707
Units	ppm
Avg	.0193695
Stddev	.0022378
%RSD	11.55337
#1	.0213313
#2	.0198451
#3	.0169321

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2767.963	30853.92	3073.591	2171.149	3679.121
Stddev	4.957	392.70	19.781	25.630	6.508
%RSD	.1790723	1.272783	.6435830	1.180479	.1768802
#1	2769.817	30862.73	3092.229	2172.606	3675.590
#2	2762.346	30456.88	3075.707	2144.821	3675.142
#3	2771.725	31242.14	3052.837	2196.019	3686.631

Reviewed By:kareem
On:12/13/2024 7:24:03 PM
Inst Id :P5

Sample Name: P4915-08A Acquired: 12/10/2024 23:55:11 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHM8A Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0662506	.0040838	1.220860	.0838871	-.001180	81.87679
Stddev	.0009946	.0010396	.003949	.0040766	.003203	2.14249
%RSD	1.501350	25.45688	.3234401	4.859640	271.5687	2.616721
#1	.0652215	.0033412	1.222485	.0839081	.001342	79.42551
#2	.0672068	.0036382	1.223737	.0798000	-.004784	83.39172
#3	.0663236	.0052719	1.216358	.0879532	-.000097	82.81314

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8159960	.0059866	.0092206	165.9684	.1422741	.1143093
Stddev	.0210254	.0001791	.0001157	4.3214	.0007478	.0002627
%RSD	2.576650	2.991846	1.254815	2.603733	.5255712	.2297782
#1	.7918104	.0058109	.0093534	161.0565	.1430917	.1146117
#2	.8299212	.0061690	.0091421	169.1852	.1416250	.1141782
#3	.8262564	.0059798	.0091662	167.6635	.1421057	.1141379

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3457209	178.0477	8.634479	52.01074	.1963692	-.017771
Stddev	.0110721	4.6774	.218425	1.20773	.0008778	.000633
%RSD	3.202622	2.627042	2.529686	2.322075	.4470009	3.561149
#1	.3342545	172.6813	8.386162	50.62545	.1972863	-.018151
#2	.3465568	181.2592	8.796895	52.84242	.1955369	-.018122
#3	.3563514	180.2027	8.720380	52.56436	.1962844	-.017041

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7659238	.1935761	1.174520	8.237559	F 10.94069	-.449053
Stddev	.1023657	.0146780	.015832	.231181	.01378	.007277
%RSD	13.36500	7.582547	1.347935	2.806423	.1259101	1.620494
#1	.8670697	.1830489	1.159399	7.972777	10.94916	-.440936
#2	.7683213	.2103431	1.173183	8.399316	10.94812	-.454993
#3	.6623804	.1873364	1.190978	8.340585	10.92480	-.451230

Reviewed By:kareem
On:12/13/2024 7:24:03 PM
Inst Id :P5

Sample Name: P4915-08A Acquired: 12/10/2024 23:55:11 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHM8A Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0021917	2.022880	9.970338	.0750577	1.458355	.1176392
Stddev	.0002780	.004052	.164446	.0017054	.037623	.0021544
%RSD	12.68515	.2003207	1.649351	2.272140	2.579804	1.831375
#1	.0024477	2.018763	9.788756	.0731873	1.419053	.1151794
#2	.0018960	2.026864	10.10923	.0765264	1.494036	.1191909
#3	.0022314	2.023013	10.01303	.0754594	1.461977	.1185473

Elem	Li6707
Units	ppm
Avg	.0376879
Stddev	.0020554
%RSD	5.453833
#1	.0365036
#2	.0400613
#3	.0364989

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2991.303	32957.61	3354.490	2324.656	3632.692
Stddev	5.228	193.84	48.491	14.159	8.754
%RSD	.1747840	.5881460	1.445551	.6090684	.2409850
#1	2987.109	32924.48	3410.442	2328.013	3625.915
#2	2989.640	33165.89	3324.678	2336.834	3629.584
#3	2997.161	32782.48	3328.349	2309.120	3642.576

Reviewed By:kareem
On:12/13/2024 7:24:03 PM
Inst Id :P5

Sample Name: P4915-01 Acquired: 12/10/2024 23:58:59 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHL4 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0687536	-.000326	1.845302	.0047845	.0101757	70.75124	.9600444
Stddev	.0014752	.002767	.005135	.0038307	.0012579	.34644	.0054263
%RSD	2.145635	848.4253	.2782530	80.06484	12.36145	.4896602	.5652101
#1	.0704519	-.001959	1.840617	.0006880	.0116277	71.04570	.9649043
#2	.0680193	-.001889	1.844497	.0082779	.0094823	70.83851	.9610393
#3	.0677897	.002869	1.850791	.0053877	.0094172	70.36951	.9541895

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0050430	.0041307	26.91781	.1279568	.0881046	.2098928	141.6137
Stddev	.0001409	.0000874	.08757	.0002326	.0004256	.0067527	.8151
%RSD	2.793002	2.114775	.3253322	.1817510	.4830752	3.217219	.5755881
#1	.0051240	.0041131	26.97846	.1282227	.0876737	.2131574	142.0511
#2	.0048804	.0040536	26.95755	.1278563	.0881155	.2143930	142.1166
#3	.0051246	.0042256	26.81741	.1277914	.0885247	.2021282	140.6732

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.980331	17.42621	.1316828	-.010282	-.018726	.1566030	.7319856
Stddev	.051857	.13434	.0007578	.000594	.157794	.0012826	.0036885
%RSD	.5195889	.7709051	.5754765	5.780902	842.6594	.8189954	.5039071
#1	10.02489	17.56200	.1322180	-.010370	.130307	.1579523	.7332856
#2	9.99269	17.42327	.1308157	-.010827	-.002462	.1564568	.7278231
#3	9.92341	17.29337	.1320148	-.009648	-.184022	.1553997	.7348481

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.890919	7.398335	-.300003	.0039240	1.014077	8.875414	.0773302
Stddev	.113022	.023090	.004884	.0000645	.001380	.084749	.0006122
%RSD	2.310860	.3121032	1.628105	1.644547	.1361283	.9548713	.7917063
#1	4.816334	7.380445	-.304145	.0039742	1.014668	8.971591	.0775371
#2	5.020958	7.390158	-.294617	.0038512	1.015064	8.811678	.0778121
#3	4.835466	7.424401	-.301247	.0039465	1.012500	8.842975	.0766413

Reviewed By:kareem
On:12/13/2024 7:24:03 PM
Inst Id :P5

Sample Name: P4915-01 Acquired: 12/10/2024 23:58:59 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHL4 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	1.372574	-.035231	-.000357
Stddev	.005977	.000330	.004071
%RSD	.4354412	.9371103	1141.756
#1	1.379263	-.035386	-.005058
#2	1.370704	-.035455	.002012
#3	1.367756	-.034852	.001976

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2794.589	31016.26	3075.665	2187.353	3835.510
Stddev	10.586	19.73	30.252	4.827	14.276
%RSD	.3788175	.0636100	.9835768	.2206913	.3721983
#1	2803.514	31014.17	3041.752	2184.336	3850.260
#2	2797.361	30997.65	3085.368	2184.802	3834.509
#3	2782.892	31036.95	3099.874	2192.921	3821.762

Reviewed By:kareem
On:12/13/2024 7:24:03 PM
Inst Id :P5

Sample Name: P4915-02 Acquired: 12/11/2024 0:02:49 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHL5 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0932517	-.002120	2.785846	.0062337	.0023386	82.02826	.9825969
Stddev	.0057144	.000268	.008648	.0032386	.0008240	.20417	.0028510
%RSD	6.127952	12.64298	.3104130	51.95275	35.23423	.2489080	.2901541
#1	.0866893	-.002223	2.793476	.0025008	.0032744	81.88687	.9803144
#2	.0959364	-.001816	2.787611	.0079067	.0020195	81.93556	.9816836
#3	.0971294	-.002321	2.776453	.0082937	.0017218	82.26234	.9857927

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0058437	.0053298	36.21070	.1721987	.1008914	.2697108	170.4600
Stddev	.0000921	.0000818	.08973	.0006824	.0004756	.0021828	.1608
%RSD	1.575178	1.534828	.2477922	.3962618	.4713710	.8093018	.0943166
#1	.0059499	.0053526	36.12827	.1716437	.1013057	.2714308	170.3628
#2	.0057953	.0053978	36.19756	.1729606	.1009965	.2704464	170.3715
#3	.0057860	.0052390	36.30627	.1719919	.1003721	.2672553	170.6455

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	8.584743	25.68020	.1854639	-.013215	.3790116	.1752288	1.059237
Stddev	.008243	.06668	.0007476	.000429	.3271981	.0064508	.008587
%RSD	.0960226	.2596675	.4030947	3.243902	86.32932	3.681360	.8106456
#1	8.577522	25.71056	.1863268	-.013568	.7567666	.1679484	1.068085
#2	8.582982	25.72630	.1850521	-.013340	.1960080	.1802327	1.050939
#3	8.593724	25.60374	.1850127	-.012738	.1842602	.1775054	1.058686

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.781626	8.814694	-.456421	.0040105	1.234731	8.955857	.0884731
Stddev	.140594	.013302	.005093	.0000739	.002397	.038088	.0010797
%RSD	2.940293	.1509032	1.115750	1.843050	.1941232	.4252888	1.220409
#1	4.941739	8.827953	-.454344	.0039338	1.237136	8.933255	.0872982
#2	4.724795	8.814778	-.462223	.0040812	1.234714	8.999832	.0894218
#3	4.678344	8.801350	-.452694	.0040164	1.232342	8.934484	.0886994

Reviewed By:kareem
On:12/13/2024 7:24:03 PM
Inst Id :P5

Sample Name: P4915-02 Acquired: 12/11/2024 0:02:49 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHL5 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	1.092756	-.051256	.0294500
Stddev	.003580	.000299	.0049768
%RSD	.3276550	.5830801	16.89935
#1	1.096550	-.051078	.0240694
#2	1.092284	-.051090	.0303920
#3	1.089436	-.051602	.0338885

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2901.869	32129.72	3190.711	2270.114	3853.299
Stddev	2.926	143.35	5.950	10.165	5.785
%RSD	.1008340	.4461495	.1864735	.4477942	.1501311
#1	2901.651	32214.06	3197.546	2274.965	3856.783
#2	2899.057	32210.88	3186.691	2276.945	3846.621
#3	2904.897	31964.20	3187.896	2258.432	3856.492

Reviewed By:kareem
On:12/13/2024 7:24:03 PM
Inst Id :P5

Sample Name: P4915-03 Acquired: 12/11/2024 0:06:37 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHL6 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0722547	-.003108	.2991054	.0037355	.0043690	75.81715	.4778629
Stddev	.0021642	.001716	.0041118	.0028748	.0005992	.15671	.0012629
%RSD	2.995283	55.19520	1.374682	76.95928	13.71515	.2066959	.2642764
#1	.0743966	-.001761	.2947471	.0045432	.0048205	75.85162	.4764242
#2	.0700688	-.002523	.2996536	.0005432	.0036892	75.64608	.4787883
#3	.0722987	-.005040	.3029156	.0061201	.0045974	75.95376	.4783763

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0068186	.0026971	19.87677	.1038376	.0973042	.1417930	176.7263
Stddev	.0001409	.0001138	.03361	.0005892	.0014062	.0018982	.4866
%RSD	2.066639	4.218791	.1691150	.5674599	1.445113	1.338702	.2753402
#1	.0069599	.0025708	19.83799	.1031572	.0957215	.1428877	177.2849
#2	.0068179	.0027292	19.89754	.1041759	.0977818	.1428901	176.3941
#3	.0066781	.0027914	19.89479	.1041797	.0984094	.1396012	176.5001

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.931230	19.56677	.1469518	-.017363	.4526814	.1590844	.3056910
Stddev	.028783	.12092	.0010605	.000549	.3098907	.0063116	.0058854
%RSD	.3629028	.6179680	.7216407	3.159827	68.45668	3.967432	1.925272
#1	7.938185	19.59693	.1458049	-.017904	.1915708	.1643899	.3114447
#2	7.899607	19.43362	.1478968	-.016807	.3713448	.1607588	.2996823
#3	7.955898	19.66975	.1471537	-.017377	.7951287	.1521045	.3059461

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.643521	3.658666	-.467209	.0038871	.3383924	9.561721	.0163218
Stddev	.041772	.033987	.007069	.0003029	.0055422	.090622	.0006923
%RSD	.6287620	.9289541	1.513004	7.792099	1.637795	.9477608	4.241390
#1	6.605426	3.619567	-.474259	.0040671	.3330638	9.656318	.0158724
#2	6.688190	3.675289	-.467247	.0040569	.3379876	9.553163	.0159739
#3	6.636948	3.681143	-.460121	.0035374	.3441259	9.475681	.0171190

Reviewed By:kareem
On:12/13/2024 7:24:03 PM
Inst Id :P5

Sample Name: P4915-03 Acquired: 12/11/2024 0:06:37 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHL6 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.8951687	-.102359	.0073860
Stddev	.0033806	.000299	.0004780
%RSD	.3776522	.2921120	6.472406
#1	.8920424	-.102442	.0075608
#2	.8947074	-.102608	.0077521
#3	.8987563	-.102027	.0068452

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2882.376	31890.08	3139.848	2247.623	3880.110
Stddev	25.181	218.93	11.406	14.559	33.834
%RSD	.8736036	.6865051	.3632567	.6477334	.8719927
#1	2911.406	32138.19	3129.878	2259.419	3919.150
#2	2869.270	31807.98	3152.286	2252.097	3861.881
#3	2866.451	31724.07	3137.381	2231.352	3859.299

Reviewed By:kareem
On:12/13/2024 7:24:03 PM
Inst Id :P5

Sample Name: P4915-04 Acquired: 12/11/2024 0:10:26 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHL7 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1155436	.0045421	.4595328	-.008144	-.002863	67.81636	.5324320
Stddev	.0036485	.0004243	.0032633	.001011	.001063	.18025	.0026250
%RSD	3.157638	9.342554	.7101247	12.41294	37.13387	.2657923	.4930128
#1	.1175570	.0042245	.4558993	-.008629	-.002135	68.01825	.5354380
#2	.1177418	.0050241	.4604850	-.008821	-.004083	67.67159	.5305923
#3	.1113321	.0043778	.4622140	-.006982	-.002370	67.75922	.5312657

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0065307	.0046474	111.1361	.1444572	.1378095	.2046853	167.1835
Stddev	.0000961	.0000740	.2946	.0008348	.0003773	.0043123	.5284
%RSD	1.470823	1.592209	.2651017	.5778658	.2738172	2.106781	.3160724
#1	.0064199	.0046572	111.4685	.1442139	.1374553	.2060842	167.7902
#2	.0065818	.0045690	110.9073	.1437711	.1377668	.1998472	166.9361
#3	.0065903	.0047160	111.0323	.1453866	.1382064	.2081244	166.8241

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	12.03683	19.60264	.2202172	-.017160	.2312649	.1510058	.3631345
Stddev	.02068	.06532	.0008211	.000730	.9134185	.0020162	.0085495
%RSD	.1717752	.3332422	.3728825	4.252038	394.9663	1.335192	2.354363
#1	12.05708	19.64753	.2195966	-.016443	-.679352	.1513448	.3613117
#2	12.01575	19.52769	.2211483	-.017902	.225688	.1528310	.3556434
#3	12.03766	19.63269	.2199067	-.017134	1.147459	.1488415	.3724484

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.489784	5.260820	-.419536	.0037840	.6201208	7.470364	.0198923
Stddev	.089893	.009354	.003578	.0001044	.0034912	.021914	.0008104
%RSD	1.385145	.1778095	.8527939	2.758716	.5629855	.2933407	4.074091
#1	6.406239	5.250287	-.420436	.0038347	.6212256	7.495156	.0196796
#2	6.478211	5.264014	-.415594	.0036640	.6162108	7.453583	.0207879
#3	6.584904	5.268159	-.422577	.0038534	.6229258	7.462353	.0192095

Reviewed By:kareem
On:12/13/2024 7:24:03 PM
Inst Id :P5

Sample Name: P4915-04 Acquired: 12/11/2024 0:10:26 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHL7 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.7775365	-.048897	.0119586
Stddev	.0005704	.000562	.0011508
%RSD	.0733608	1.149512	9.623007
#1	.7778380	-.049338	.0130362
#2	.7778928	-.049089	.0107464
#3	.7768786	-.048264	.0120933

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3607.272	40224.07	4022.695	2827.983	3665.036
Stddev	2.515	338.51	12.715	20.630	4.924
%RSD	.0697308	.8415491	.3160793	.7294985	.1343447
#1	3607.971	39987.26	4008.674	2817.012	3668.198
#2	3604.481	40611.78	4033.478	2851.781	3659.363
#3	3609.363	40073.16	4025.933	2815.157	3667.547

Reviewed By:kareem
On:12/13/2024 7:24:03 PM
Inst Id :P5

Sample Name: P4915-05 Acquired: 12/11/2024 0:14:15 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHM5 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0995964	.0067176	1.079306	-.012740	-.006455	61.72549	.6475574
Stddev	.0005924	.0029276	.003771	.001473	.000661	.14606	.0008961
%RSD	.5947969	43.58006	.3493866	11.56376	10.23360	.2366349	.1383803
#1	.0997660	.0099499	1.080479	-.012559	-.007047	61.89400	.6480642
#2	.1000855	.0042442	1.075088	-.014295	-.006575	61.63502	.6480854
#3	.0989377	.0059589	1.082352	-.011366	-.005742	61.64745	.6465228

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0055509	.0089426	227.5666	.1021544	.1206024	.3742565	155.1894
Stddev	.0001117	.0000488	.5918	.0006068	.0008302	.0024414	.6777
%RSD	2.011752	.5457401	.2600696	.5939863	.6883761	.6523192	.4366832
#1	.0056347	.0089193	228.2482	.1028551	.1214308	.3770754	155.9326
#2	.0054241	.0089986	227.1828	.1018061	.1197704	.3728255	155.0298
#3	.0055939	.0089097	227.2689	.1018021	.1206060	.3728686	154.6057

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	10.04054	28.21132	.1944769	-.015087	.9367938	.1259341	.9208408
Stddev	.02010	.10183	.0003368	.000659	.1450280	.0003400	.0105400
%RSD	.2002125	.3609391	.1732076	4.369052	15.48132	.2700064	1.144608
#1	10.03488	28.16191	.1942301	-.014752	.8234063	.1255881	.9207164
#2	10.02387	28.14363	.1943399	-.014662	1.100214	.1262678	.9314425
#3	10.06286	28.32843	.1948607	-.015846	.886761	.1259465	.9103635

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	10.90940	7.882315	-.352553	.0016675	1.095853	8.352009	.0216416
Stddev	.09456	.011778	.008295	.0001826	.001360	.060364	.0007834
%RSD	.8667851	.1494273	2.352950	10.95028	.1240923	.7227450	3.619716
#1	10.93348	7.892691	-.351469	.0018783	1.095736	8.368528	.0207420
#2	10.98960	7.869512	-.344853	.0015574	1.094555	8.285106	.0220096
#3	10.80513	7.884743	-.361337	.0015668	1.097267	8.402394	.0221733

Reviewed By:kareem
On:12/13/2024 7:24:03 PM
Inst Id :P5

Sample Name: P4915-05 Acquired: 12/11/2024 0:14:15 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHM5 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.6556406	.0943778	.0146293
Stddev	.0062989	.0005240	.0010319
%RSD	.9607190	.5551783	7.053641
#1	.6600807	.0945791	.0140520
#2	.6484315	.0937830	.0158207
#3	.6584094	.0947712	.0140153

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3065.716	33732.11	3447.597	2374.349	3590.677
Stddev	10.616	141.70	17.214	17.965	13.637
%RSD	.3462870	.4200826	.4992926	.7566251	.3797961
#1	3062.188	33596.48	3442.126	2355.595	3581.057
#2	3077.647	33720.66	3466.881	2376.047	3606.284
#3	3057.313	33879.19	3433.784	2391.404	3584.690

Reviewed By:kareem
On:12/13/2024 7:24:03 PM
Inst Id :P5

Sample Name: P4915-06 Acquired: 12/11/2024 0:18:04 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHM6 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0003716	.0020930	-.000226	.0058158	-.000273	.0351805	-.000579
Stddev	.0023501	.0010093	.000547	.0043223	.000955	.0110390	.001115
%RSD	632.4061	48.22308	242.0336	74.32026	350.2626	31.37809	192.6487
#1	.0016840	.0025460	.000380	.0010369	-.000299	.0417365	-.001757
#2	-.002342	.0027963	-.000374	.0094518	-.001214	.0224356	.000461
#3	.001772	.0009365	-.000683	.0069585	.000695	.0413695	-.000441

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000031	.0000548	.5881211	.0074161	.0010095	.0053582	.6114003
Stddev	.000050	.0000784	.0275230	.0002261	.0001835	.0012732	.0509085
%RSD	162.1183	142.9403	4.679812	3.048711	18.17692	23.76133	8.326545
#1	-.000052	.0000409	.5566116	.0075775	.0008113	.0038971	.6516900
#2	-.000068	.0001392	.6002876	.0071577	.0011735	.0062294	.5541848
#3	.000026	-.000016	.6074641	.0075132	.0010437	.0059482	.6283262

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0426329	.0991139	.0266683	-.000659	-.441457	.0003601	.0032039
Stddev	.0009449	.0771091	.0001537	.001195	.358883	.0046578	.0028695
%RSD	2.216306	77.79853	.5762695	181.4692	81.29512	1293.652	89.56199
#1	.0434460	.1875799	.0267851	-.000937	-.395021	-.004971	.0040186
#2	.0415963	.0636062	.0267255	-.001690	-.821297	.002409	.0055780
#3	.0428562	.0461554	.0264942	.000651	-.108052	.003643	.0000152

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-2.41680	.0243517	-.005767	-.000653	.0054407	.0370235	-.013227
Stddev	.03184	.0011996	.002208	.000207	.0007320	.0004054	.000328
%RSD	1.317505	4.926163	38.28492	31.72964	13.45384	1.094871	2.481164
#1	-2.42704	.0230535	-.003882	-.000485	.0046461	.0365727	-.013523
#2	-2.44226	.0254193	-.008196	-.000590	.0060875	.0373581	-.013284
#3	-2.38110	.0245824	-.005223	-.000884	.0055885	.0371396	-.012874

Reviewed By:kareem
On:12/13/2024 7:24:03 PM
Inst Id :P5

Sample Name: P4915-06 Acquired: 12/11/2024 0:18:04 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHM6 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.0062758	.0005914	-.102145
Stddev	.0004023	.0002679	.002881
%RSD	6.410112	45.29684	2.820889
#1	.0064948	.0008989	-.100883
#2	.0058115	.0004663	-.100110
#3	.0065210	.0004089	-.105442

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2816.471	31412.52	3017.053	2221.611	4456.186
Stddev	16.094	152.46	9.864	7.600	27.187
%RSD	.5714315	.4853526	.3269513	.3420770	.6101017
#1	2835.046	31449.04	3024.737	2224.631	4487.576
#2	2806.689	31543.41	3005.929	2227.237	4440.903
#3	2807.677	31245.12	3020.492	2212.966	4440.080

Reviewed By:kareem
On:12/13/2024 7:24:03 PM
Inst Id :P5

Sample Name: P4932-02 Acquired: 12/11/2024 0:22:04 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHQ2 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1181066	.0082387	3.834653	-.010760	-.001376	70.07743
Stddev	.0007325	.0015594	.009117	.002211	.001574	.23140
%RSD	.6202398	18.92827	.2377422	20.54470	114.3597	.3302129
#1	.1187314	.0099892	3.824407	-.013254	-.000159	70.28976
#2	.1173004	.0077288	3.841869	-.009043	-.000817	70.11174
#3	.1182881	.0069980	3.837684	-.009983	-.003154	69.83079

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.592262	.0060454	.0185442	240.9605	.1534458	.1180626
Stddev	.004226	.0000809	.0000691	.7690	.0011887	.0002406
%RSD	.2653995	1.338458	.3723955	.3191265	.7746614	.2037658
#1	1.595853	.0060095	.0185073	241.7643	.1531006	.1180112
#2	1.593326	.0061380	.0185014	240.8851	.1547688	.1178519
#3	1.587605	.0059886	.0186239	240.2320	.1524679	.1183247

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7590830	168.0467	11.07099	75.75052	.1972070	-.013354
Stddev	.0117538	.4541	.04319	.17913	.0006944	.000465
%RSD	1.548427	.2702125	.3901094	.2364712	.3520947	3.484034
#1	.7726346	168.4105	11.11956	75.91258	.1979177	-.012914
#2	.7529546	168.1918	11.05652	75.78080	.1971731	-.013308
#3	.7516598	167.5378	11.03690	75.55819	.1965302	-.013841

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6638581	.1824421	5.961151	10.02351	F 10.03823	-.395137
Stddev	.0902813	.0061935	.056030	.11121	.01998	.004065
%RSD	13.59949	3.394758	.9399259	1.109515	.1990654	1.028636
#1	.6543151	.1847326	5.982760	10.15135	10.02834	-.397975
#2	.7585318	.1871641	6.003158	9.94910	10.02512	-.390481
#3	.5787273	.1754296	5.897533	9.97007	10.06123	-.396956

Reviewed By:kareem
On:12/13/2024 7:24:03 PM
Inst Id :P5

Sample Name: P4932-02 Acquired: 12/11/2024 0:22:04 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHHQ2 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0048378	2.195711	10.27725	.1997238	1.101680	.2122915
Stddev	.0001810	.002594	.04099	.0006833	.006199	.0012077
%RSD	3.742203	.1181439	.3988520	.3421268	.5626996	.5688970
#1	.0047524	2.198704	10.32444	.2005117	1.103082	.2134156
#2	.0050458	2.194316	10.25050	.1993654	1.094900	.2124442
#3	.0047153	2.194113	10.25680	.1992942	1.107058	.2110147

Elem	Li6707
Units	ppm
Avg	.0257838
Stddev	.0045635
%RSD	17.69892
#1	.0248732
#2	.0307339
#3	.0217443

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2841.119	31232.34	3195.889	2207.139	3536.562
Stddev	2.242	41.19	18.819	9.649	.687
%RSD	.0789041	.1318785	.5888587	.4371896	.0194350
#1	2841.982	31229.30	3174.827	2202.614	3536.532
#2	2838.574	31192.76	3211.053	2200.585	3537.264
#3	2842.801	31274.97	3201.788	2218.220	3535.890

Reviewed By:kareem
On:12/13/2024 7:24:03 PM
Inst Id :P5

Sample Name: CCV094 Acquired: 12/11/2024 0:25:51 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV094 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.992140	4.899624	24.86220	4.748500	4.832405	396.3742
Stddev	.019335	.010513	.05290	.013154	.020165	.4211
%RSD	.3873004	.2145771	.2127645	.2770081	.4172865	.1062409
#1	4.977656	4.892332	24.80556	4.734472	4.811417	396.1837
#2	4.984668	4.894864	24.87072	4.750469	4.834166	396.8569
#3	5.014095	4.911675	24.91032	4.760558	4.851632	396.0820

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	10.02354	.4977151	2.500074	401.5872	15.34069	2.535077
Stddev	.00598	.0016349	.005495	.5670	.17496	.005784
%RSD	.0596879	.3284729	.2198063	.1411799	1.140479	.2281627
#1	10.02265	.4958517	2.494147	401.6215	15.42090	2.528590
#2	10.02992	.4989084	2.501075	402.1362	15.14001	2.536946
#3	10.01805	.4983853	2.505000	401.0039	15.46116	2.539696

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	14.80049	398.3403	14.43024	397.0365	2.522411	1.226613
Stddev	.02402	.7664	.03789	1.5351	.005332	.012042
%RSD	.1623036	.1924082	.2626067	.3866468	.2113895	.9817201
#1	14.81673	398.7574	14.45472	398.2483	2.516260	1.232190
#2	14.81185	398.8077	14.44941	397.5511	2.525715	1.212794
#3	14.77289	397.4558	14.38659	395.3102	2.525258	1.234856

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	392.8086	2.499790	13.67498	150.8337	5.007157	F 4.099273
Stddev	.7567	.011932	.18791	.0775	.011492	.022720
%RSD	.1926464	.4773293	1.374151	.0513922	.2295049	.5542379
#1	393.4292	2.513017	13.77644	150.7454	4.995199	4.078046
#2	393.0309	2.489836	13.45814	150.8655	5.008156	4.123238
#3	391.9656	2.496517	13.79035	150.8903	5.018117	4.096535

Reviewed By:kareem
On:12/13/2024 7:24:03 PM
Inst Id :P5

Sample Name: CCV094 Acquired: 12/11/2024 0:25:51 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV094 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.792565	5.058546	4.798790	4.992307	4.928561	4.774243
Stddev	.014223	.015993	.023644	.016832	.009244	.013894
%RSD	.2967820	.3161490	.4927071	.3371541	.1875513	.2910101
#1	4.776206	5.048638	4.773618	4.973400	4.938796	4.785585
#2	4.799490	5.050004	4.820531	4.997863	4.920822	4.778398
#3	4.802001	5.076996	4.802221	5.005659	4.926065	4.758746

Elem	Li6707
Units	ppm
Avg	5.025130
Stddev	.005268
%RSD	.1048290
#1	5.019649
#2	5.030155
#3	5.025587

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2152.808	25070.56	2699.611	1659.333	3159.927
Stddev	4.242	260.39	7.220	23.255	5.293
%RSD	.1970483	1.038632	.2674365	1.401486	.1674901
#1	2157.487	24887.95	2702.329	1649.183	3164.950
#2	2149.214	25368.73	2691.427	1685.938	3154.401
#3	2151.723	24954.99	2705.078	1642.879	3160.431

Reviewed By:kareem
On:12/13/2024 7:24:03 PM
Inst Id :P5

Sample Name: CCB094 Acquired: 12/11/2024 0:29:28 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB094 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.001810	.0018353	-.000469	.0071782	.0002768	.0178631
Stddev	.001304	.0018077	.000704	.0011541	.0016633	.0295158
%RSD	72.06001	98.49785	149.9870	16.07836	600.8431	165.2330
#1	-.002363	.0034669	-.000803	.0084619	.0013032	.0169598
#2	-.002746	.0021469	-.000943	.0068467	-.001642	-.011191
#3	-.000320	-.000108	.000339	.0062262	.001169	.047820

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.002122	-.000070	.0001943	.0038208	-.000788	-.000020
Stddev	.000364	.000108	.0000914	.0161277	.000078	.000174
%RSD	17.13637	153.8723	47.04438	422.1011	9.892257	861.4238
#1	-.002391	-.000101	.0002465	.0145899	-.000817	.000002
#2	-.002266	.000050	.0002477	.0115940	-.000700	.000141
#3	-.001708	-.000160	.0000888	-.014721	-.000847	-.000204

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0012210	.0253287	.0006369	.0082926	.0002225	-.000367
Stddev	.0062439	.0169752	.0008888	.0346859	.0005090	.000973
%RSD	511.3863	67.01947	139.5540	418.2755	228.8082	265.2135
#1	-.004333	.0205159	.0012648	-.026789	-.000130	.000711
#2	.000017	.0441906	.0010261	.042569	-.000009	-.001181
#3	.007979	.0112796	-.000380	.009098	.000806	-.000631

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-1.10042	.0001587	.0032572	-.665876	.0008425	.0097986
Stddev	.24047	.0069039	.0006701	.159192	.0006571	.0028711
%RSD	21.85262	4350.180	20.57285	23.90712	77.99871	29.30073
#1	-1.17006	-.007273	.0028111	-.509797	.0014346	.0116261
#2	-.83281	.006373	.0040278	-.659823	.0001355	.0112804
#3	-1.29837	.001377	.0029328	-.828008	.0009572	.0064894

Reviewed By:kareem
On:12/13/2024 7:24:03 PM
Inst Id :P5

Sample Name: CCB094 Acquired: 12/11/2024 0:29:28 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB094 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000692	-.000899	.0003543	F -.010322	.0038361	.0001568
Stddev	.000095	.001692	.0001689	.000590	.0005188	.0002480
%RSD	13.69276	188.2553	47.66365	5.719356	13.52400	158.1716
#1	-.000643	-.002648	.0005218	-.010233	.0040262	.0004090
#2	-.000801	.000729	.0003570	-.009782	.0032491	.0001481
#3	-.000632	-.000778	.0001841	-.010952	.0042331	-.000087

Elem	Li6707
Units	ppm
Avg	F -.064577
Stddev	.002083
%RSD	3.225631
#1	-.066304
#2	-.065162
#3	-.062263

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2519.459	27995.58	2755.259	1972.204	3926.644
Stddev	9.602	122.73	4.150	8.129	11.213
%RSD	.3811038	.4383927	.1506155	.4121971	.2855662
#1	2524.743	28105.92	2750.878	1978.026	3931.159
#2	2525.258	28017.42	2755.769	1975.669	3934.896
#3	2508.376	27863.39	2759.130	1962.916	3913.877

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

Prep Standard - Chemical Standard Summary

Order ID : P4912

Test : Metals CLP Full

Prepbatch ID : PB165139,

Sequence ID/Qc Batch ID: LB133698,LB133774,LB133883,

Standard ID :
MP83014,MP83122,MP83134,MP83136,MP83137,MP83138,MP83139,MP83140,MP83141,MP83142,MP83143,MP831
44,MP83145,MP83146,MP83147,MP83148,MP83149,MP83500,MP83501,MP83502,MP83503,MP83504,MP83505,MP
83506,MP83507,MP83508,MP83509,MP83510,MP83511,MP83513,MP83514,MP83567,

Chemical ID :
M5130,M5218,M5223,M5289,M5295,M5296,M5390,M5393,M5395,M5429,M5473,M5476,M5496,M5497,M5498,M5513
,M5515,M5519,M5634,M5658,M5697,M5698,M5751,M5768,M5769,M5798,M5799,M5800,M5801,M5802,M5806,M581
5,M5816,M5817,M5818,M5819,M5820,M5875,M5959,M5960,M5962,M5970,M5976,M5978,M5982,M5984,M5985,M59
90,M5999,M6021,M6023,M6025,M6028,M6030,M6033,M6095,M6111,M6115,M6116,M6117,M6118,M6120,M6121,M61
26,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
1122	ICPMS CALIB BLANK(S0/ICB/CCB)	MP83014	11/02/2024	12/14/2024	Sarabjit Jaswal	None	None	Mohan Bera 11/04/2024

FROM 25.00000ml of M6095 + 4925.00000ml of W3112 + 50.00000ml of M6115 = Final Quantity: 5000.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
169	1:1HNO3	MP83122	11/07/2024	12/06/2024	Janvi Patel	None	None	Sarabjit Jaswal 11/07/2024

FROM 1000.00000ml of M6116 + 1000.00000ml of W3112 = Final Quantity: 2000.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
902	ICP AES CAL BLK (SO/ICB/CCB)	MP83134	10/30/2024	12/06/2024	Kareem Khairalla	None	None	Mohan Bera 11/08/2024

FROM 125.00000ml of M6111 + 2350.00000ml of W3112 + 25.00000ml of M6117 = Final Quantity: 2500.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
2480	ICP AES STD 6 ISM01.3	MP83136	10/30/2024	12/06/2024	Kareem Khairalla	None	None	Mohan Bera 11/08/2024

FROM 4.00000ml of M5289 + 4.00000ml of M5498 + 4.00000ml of M5515 + 4.00000ml of M5768 + 4.00000ml of M5806 + 30.00000ml of MP83134 = Final Quantity: 50.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1004	ICPAES ISM01.2 (S5)	MP83137	10/30/2024	12/06/2024	Kareem Khairalla	None	None	Mohan Bera 11/08/2024

FROM 0.25000ml of M5798 + 0.50000ml of M5429 + 0.50000ml of M5476 + 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 M5751 + 14.50000ml of M5515 + 14.50000ml of M5658 + 14.50000ml of M6033 + 2.00000ml of M5513 + 22.50000ml of M5498 + 22.50000ml of M5768 + 5.00000ml of M5296 + 5.00000ml of M5395 + 5.00000ml of M5802 + 5.00000ml of M5818 + 5.00000ml of M5875 + 303.50000ml of MP83134 = Final Quantity: 500.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1005	ICPAES ISM01.2(S4)	MP83138	10/30/2024	12/06/2024	Kareem Khairalla	None	None	Mohan Bera 11/08/2024

FROM 250.00000ml of MP83134 + 250.00000ml of MP83137 = Final Quantity: 500.000 ml

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Fax : 908 789 8922

Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1007	ICPAES ISM01.2(S3)	MP83139	10/30/2024	12/06/2024	Kareem Khairalla	None	None	Mohan Bera 11/08/2024

FROM 25.00000ml of MP83137 + 75.00000ml of MP83134 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1008	ICPAES ISM01.2(S2)	MP83140	10/30/2024	12/06/2024	Kareem Khairalla	None	None	Mohan Bera 11/08/2024

FROM 12.50000ml of MP83137 + 87.50000ml of MP83134 = 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
994	ICPAES ISM01.2 S1 (CONC.)	MP83141	10/30/2024	12/06/2024	Kareem Khairalla	None	None	Mohan Bera 11/08/2024

FROM 0.02000ml of M5815 + 0.03000ml of M5429 + 0.10000ml of M5798 + 0.10000ml of M6028 + 0.14000ml of M5799 + 0.20000ml of M5476 + 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 M6033 + 0.50000ml of M5751 + 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 M5768 + 10.00000ml of M5806 + 10.00000ml of M5818 + 2.00000ml of M5978 + 4.00000ml of M5390 + 34.24000ml of MP83134 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1003	ICPAES ISM01.2 S1	MP83142	10/30/2024	12/06/2024	Kareem Khairalla	None	None	Mohan Bera 11/08/2024

FROM 0.50000ml of MP83141 + 99.50000ml of MP83134 = Final Quantity: 100.000 ml

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Fax : 908 789 8922

Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
2054	ICV-ICPAES	MP83143	10/30/2024	12/06/2024	Kareem Khairalla	None	None	Mohan Bera 11/08/2024

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 MP83134 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
904	ICP AES ICSA SOLN	MP83144	10/30/2024	12/06/2024	Kareem Khairalla	None	None	Mohan Bera 11/08/2024

FROM 25.00000ml of M5130 + 200.00000ml of MP83134 = 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
905	ICP AES ICSAB SOLN	MP83145	10/30/2024	12/06/2024	Kareem Khairalla	None	None	Mohan Bera 11/08/2024

FROM 25.00000ml of M5130 + 25.00000ml of M5223 + 200.00000ml of MP83134 = Final Quantity: 250.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1119	ICPAES ISM01.2(CCV)	MP83146	10/30/2024	12/06/2024	Kareem Khairalla	None	None	Mohan Bera 11/08/2024

FROM 0.75000ml of M5498 + 0.75000ml of M5768 + 1.22500ml of M6033 + 1.25000ml of M5515 + 1.25000ml of M5806 + 19.77500ml of MP83134 + 25.00000ml of MP83137 = Final Quantity: 50.000 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
921	ICPAES SPIKE SOL#6	MP83147	10/30/2024	12/06/2024	Kareem Khairalla	None	None	Mohan Bera 11/08/2024

FROM 2.50000ml of M5962 + 50.00000ml of M5990 + 50.00000ml of M5999 + 147.50000ml of MP83134 = Final Quantity: 250.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
919	ICP AES INTERNAL STD	MP83148	10/30/2024	12/06/2024	Kareem Khairalla	None	None	Mohan Bera 11/08/2024

FROM 1.00000ml of M5984 + 10.00000ml of M5985 + 1969.00000ml of W3112 + 20.00000ml of M6117 = Final Quantity: 2000.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
903	ICP AES RINSE SOLN	MP83149	10/30/2024	12/06/2024	Kareem Khairalla	None	None	Mohan Bera 11/08/2024

FROM 200.00000ml of M6117 + 9800.00000ml of W3112 = Final Quantity: 10000.000 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	01/06/2025	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

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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	01/06/2025	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	01/06/2025	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

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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	01/06/2025	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	01/06/2025	Kareem Khairalla	None	None	Sarabjit Jaswal 12/09/2024

FROM 25.00000ml of MP83502 + 75.00000ml of MP83500 = Final Quantity: 100.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1008	ICPAES ISM01.2(S2)	MP83505	12/09/2024	01/06/2025	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	01/06/2025	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 + 34.24000ml of MP83500 = Final Quantity: 100.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1003	ICPAES ISM01.2 S1	MP83507	12/09/2024	01/06/2025	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	01/06/2025	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

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
904	ICP AES ICSA SOLN	MP83509	12/09/2024	01/06/2025	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	01/06/2025	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

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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	01/06/2025	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
919	ICP AES INTERNAL STD	MP83513	12/09/2024	01/06/2025	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

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
513	RINSE SOLN	MP83514	12/09/2024	01/06/2025	Kareem Khairalla	None	None	Sarabjit Jaswal 12/09/2024

FROM 200.00000ml of M6126 + 9800.00000ml of W3112 = Final Quantity: 10000.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1883	SE 10PPM	MP83567	12/09/2024	12/13/2024	Sarabjit Jaswal	None	None	Mohan Bera 12/13/2024

FROM 0.10000ml of M5962 + 9.90000ml of MP83014 = Final Quantity: 10.000 ml

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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	12/28/2024	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	12/28/2024	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

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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 #
Inorganic Ventures	CLPP-CAL-3 / CLP CAL SOLUTION #3, 125mL	T2-MEB714159	01/13/2027	01/30/2024 / bin	09/19/2022 / bin	M5395

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.	57138 / Sr, 10000 PPM, 125 ml	082922	08/29/2025	07/29/2024 / jaswal	03/16/2023 / jaswal	M5476

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Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58113 / Al, 10000 PPM, 500 ml	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

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

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CHEMICAL RECEIPT LOG BOOK

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	02/03/2025	04/18/2024 / jaswal	08/03/2022 / Al-Terek	M5634

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

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.	58029 / Cu, 1000 PPM, 500 ml	071723	07/17/2026	10/01/2024 / Jaswal	08/25/2023 / jaswal	M5751

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58112 / Mg, 10000 PPM, 500 ml	091823	09/18/2026	01/08/2024 / bin	01/03/2024 / bin	M5768

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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

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

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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

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

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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

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

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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	CGY10-1 / YTTRIUM 125mL 10,000ug/mL	V2-Y740548	02/20/2029	08/05/2024 / kareem	06/14/2024 / Jaswal	M5984

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	CGIN10-5 / INDIUM 1 x 500 ml	U2-IN729349	02/21/2028	10/08/2024 / Jaswal	06/14/2024 / Jaswal	M5985

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	CLPP-SPK-5 / CLP Spike Standard 5	V2-MEB742037	03/12/2029	10/04/2024 / Jaswal	02/22/2024 / Jaswal	M5990

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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

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

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Fax : 908 789 8922

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58113 / Al, 10000 PPM, 500 ml	011623	01/16/2026	08/07/2024 / Jaswal	01/03/2024 / Jaswal	M6033

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)		03/17/2029	10/26/2024 / Janvi	10/21/2024 / Janvi	M6095

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)	22F0762009	05/09/2027	11/04/2024 / Eman	09/29/2024 / Janvi	M6111

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)	24B1362001	05/04/2025	11/02/2024 / Janvi	09/29/2024 / Eman	M6115

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)	24B1362001	05/03/2025	11/04/2024 / Janvi	09/29/2024 / Eman	M6116

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)	24B1362001	05/06/2025	11/06/2024 / Janvi	09/29/2024 / Eman	M6117

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Fax : 908 789 8922

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9530-33 / Hydrochloric Acid, Instra-Analyzed (cs/6x2.5L)	22E1662006	05/09/2025	11/09/2024 / Janvi	10/09/2024 / Janvi	M6118

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)	23I0662003	05/13/2025	11/13/2024 / Eman	10/13/2024 / Eman	M6120

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 #
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

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Certificate of Analysis

R: 02/22/24 M5986 M5987, M5988, M5989-M5990

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1.0 ACCREDITATION / REGISTRATION

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

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Multi Analyte Custom Grade Solution
Catalog Number:	CLPP-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:

744

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

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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

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CERTIFIED WEIGHT REPORT:

Part Number:	**57048**			**Lot #**	
Lot Number:	**070124**	**Solvent:**	24002546	Nitric Acid	
Description:	**Cadmium (Cd)**				
		2%	40.0 (mL)	Nitric Acid	
Expiration Date:	070127				
Recommended Storage:	Ambient (20 °C)				
Nominal Concentration (µg/mL):	**1000**				
NIST Test Number:	6UTB	5E-05	Balance Uncertainty		
Weight shown below was diluted to (mL):	2000.07	0.100	Flask Uncertainty		

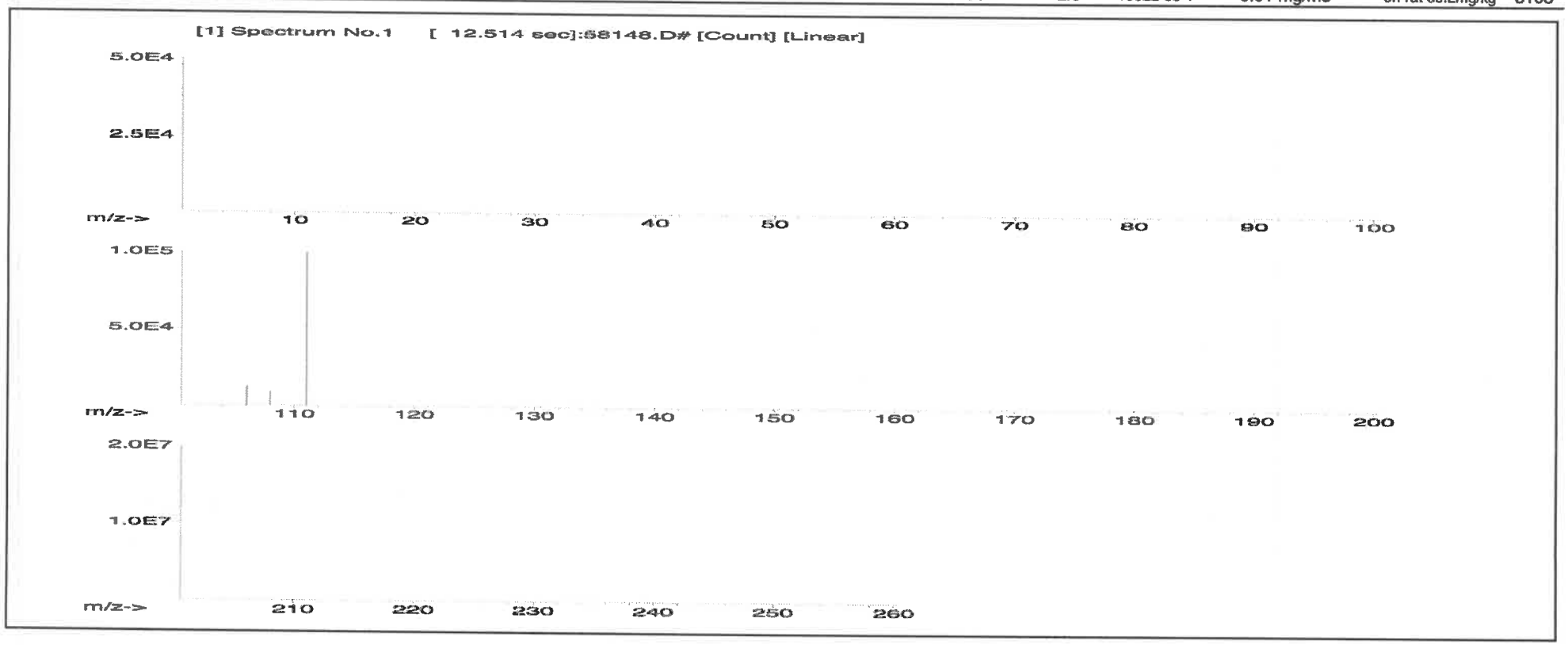
Aleah O'Brady

Formulated By:	Aleah O'Brady	070124

Pedro Rentas

Reviewed By:	Pedro L. Rentas	070124

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Cadmium nitrate tetrahydrate (Cd)	IN024	CDM092021A1	1000	99.999	0.10	36.5	5.4797	5.4804	**1000.1**	**2.0**	10022-68-1	0.01 mg/m3	orl-rat 60.2mg/kg	3108



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

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	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:

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).

M5296 OP: 09/19/2022 BH

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1.0 ACCREDITATION / REGISTRATION

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

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Multi Analyte Custom Grade Solution
Catalog Number:	CHEM-CLP-4
Lot Number:	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.

750

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

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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

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Certificate of Analysis

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info@inorganicventures.com

1.0 ACCREDITATION / REGISTRATION

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

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Multi Analyte Custom Grade Solution
Catalog Number:	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:

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

$CRM/RM\ Expanded\ Uncertainty\ (\pm) = U_{CRM/RM} = k\ (u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

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

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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

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

u_{bb} = bottle to bottle homogeneity standard uncertainty

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u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

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

4.1 Thermometer Calibration

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

4.2 Balance Calibration

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

4.3 Glassware Calibration

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

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

N/A

6.0 INTENDED USE

- 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

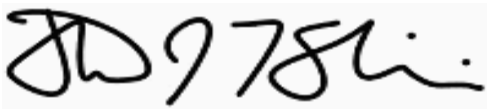
- Sealed TCT Bag Open Date: _____

- 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

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Certificate of Analysis

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ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Multi Analyte Custom Grade Solution
Catalog Number:	CLPP-CAL-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.

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N/A

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11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

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January 13, 2022

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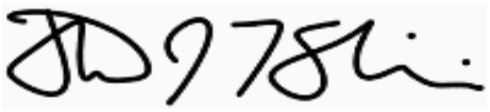
Manager, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

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Certificate of Analysis

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Catalog Number:	CLPP-CAL-3
Lot Number:	T2-MEB714159
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Value / Analyte(s):	1 000 µg/mL ea: Arsenic, Lead, Selenium, Thallium, 500 µg/mL ea: Cadmium

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760

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

N/A

6.0 INTENDED USE

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11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

January 13, 2022

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11.2 Lot Expiration Date

- **January 13, 2027**

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

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11.3 Period of Validity

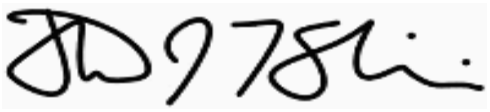
- Sealed TCT Bag Open Date: _____

- 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

763

CERTIFIED WEIGHT REPORT:

Part Number: 57182
Lot Number: 110923
Description: Lead (Pb)

Expiration Date: 110926
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB

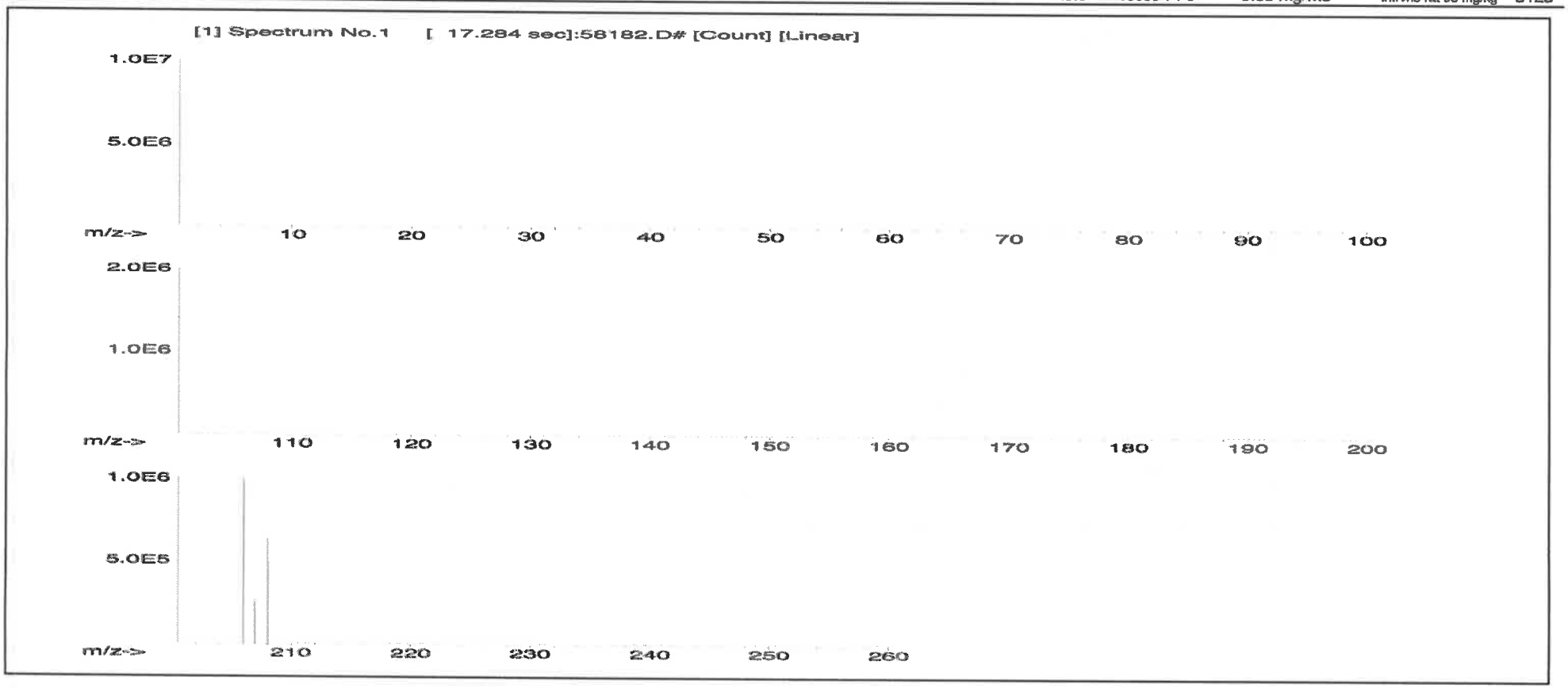
Weight shown below was diluted to (mL): 2000.02 0.058 Flask Uncertainty

		Lot #	
Solvent:	24002546		Nitric Acid
	2%	40.0 (mL)	Nitric Acid

5E-05 Balance Uncertainty

Formulated By:	Lawence Barry	110923
Reviewed By:	Pedro L. Rentas	110923

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Lead(II) nitrate (Pb)	IN029	PBD122016A1	10000	99.999	0.10	62.5	32.0006	32.0040	**10001.1**	**20.0**	10099-74-8	0.05 mg/m3	intrvns-rat 93 mg/kg	3128



764

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.

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 BH

Certified Reference Material CRM

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

CERTIFIED WEIGHT REPORT:

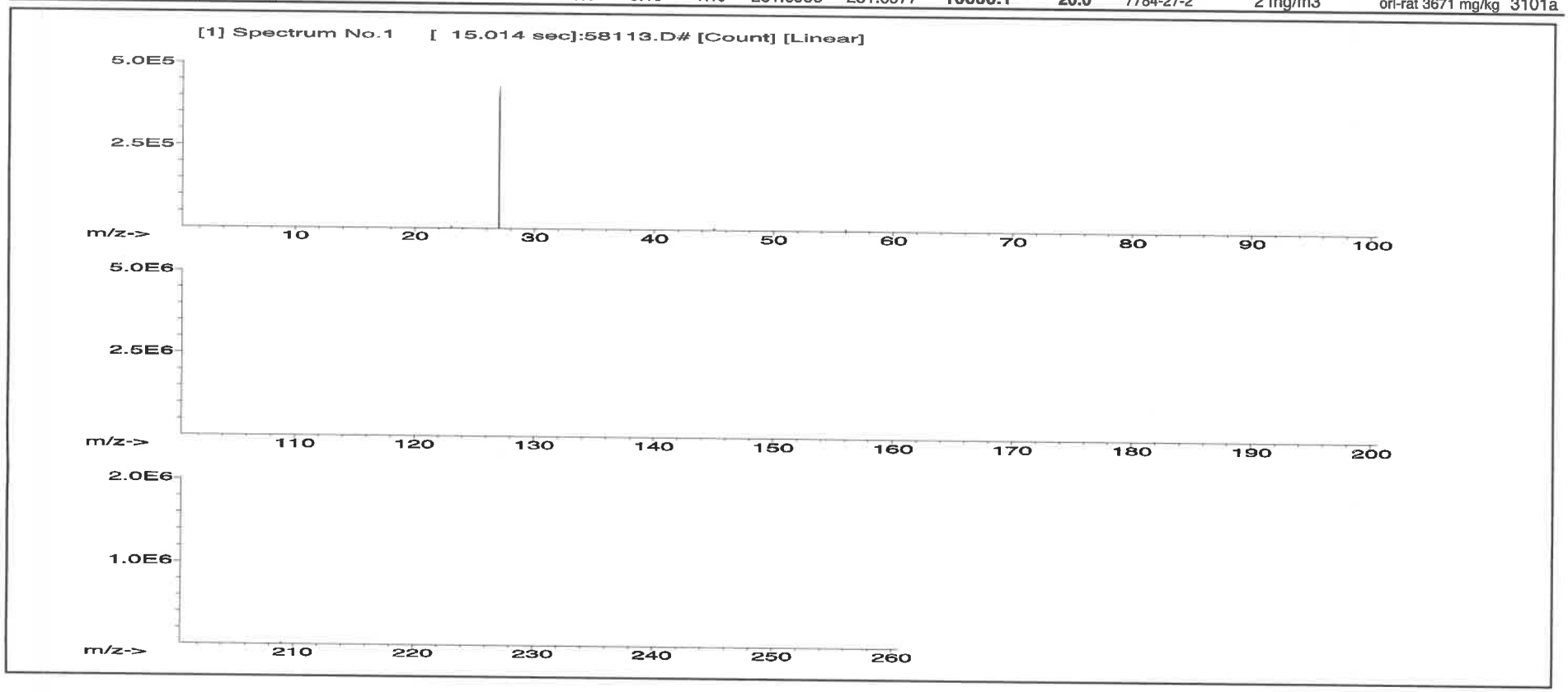
Part Number: 58113
Lot Number: 070622
Description: Aluminum (Al)

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



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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

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R: 09/08/22 (BH)

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M5387 . M5389 . M5390 . M5391 . M5392

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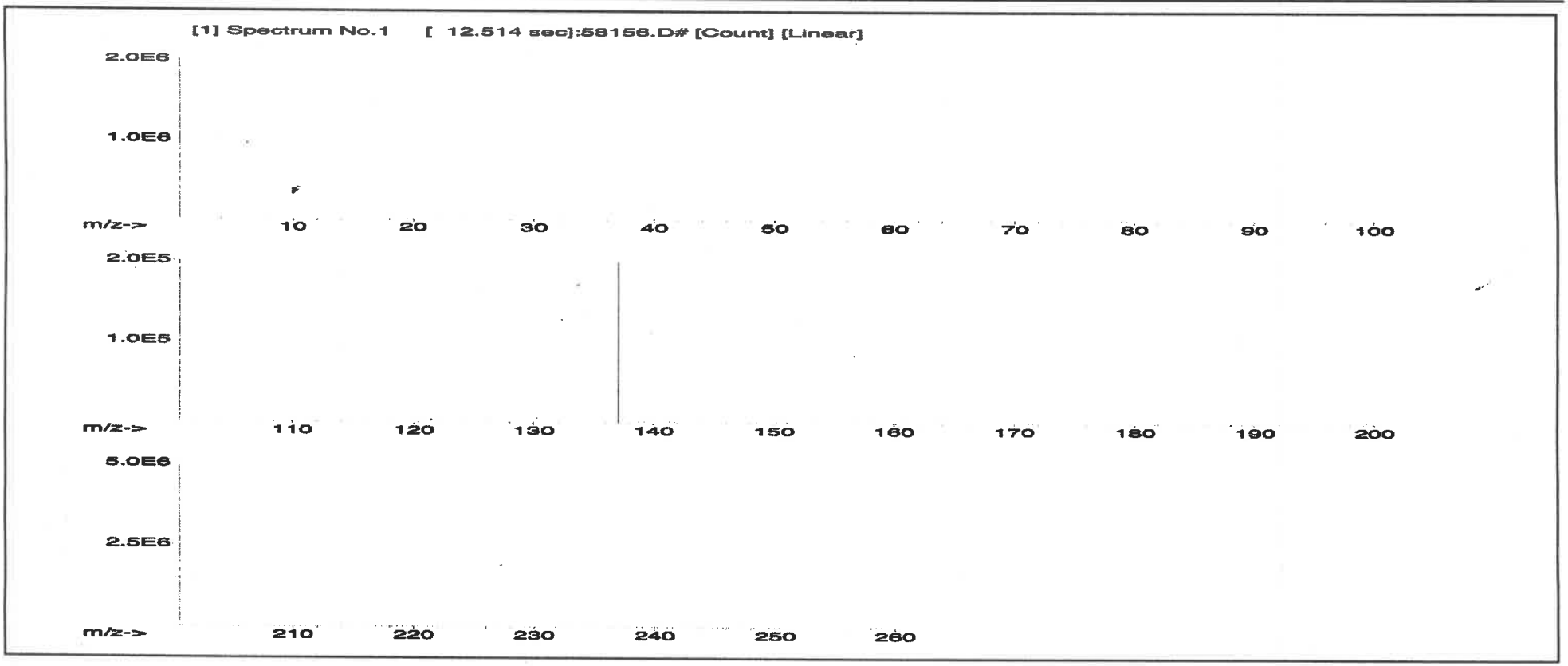
CERTIFIED WEIGHT REPORT:

Part Number:	**57056**		**Lot #**		
Lot Number:	**072122**	**Solvent:**	20510011	Nitric Acid	
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

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).

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M5429 R1 01/26/23 BH

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CERTIFIED WEIGHT REPORT:

Part Number: 57103
Lot Number: 070622
Description: Lithium (Li)

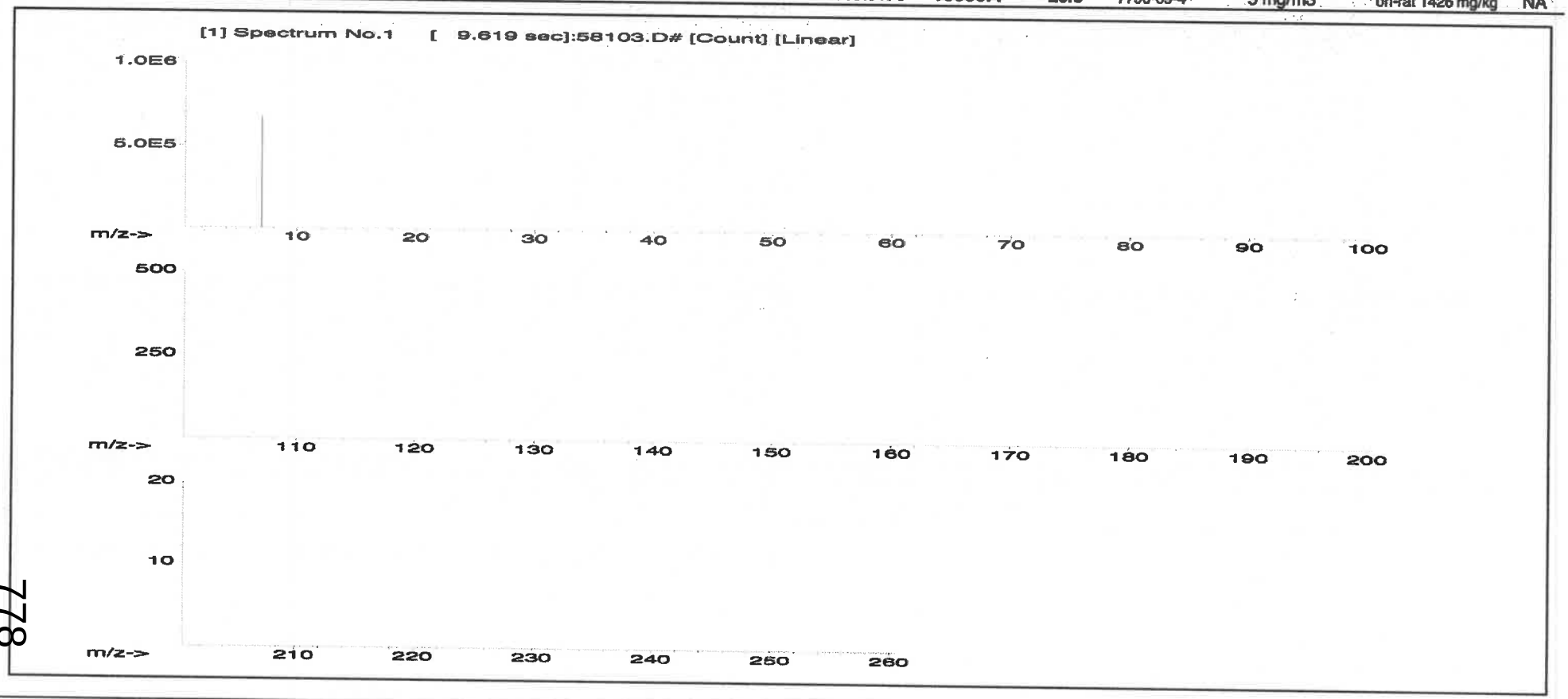
Expiration Date: 070625
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 1000.12

	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



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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:

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.
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* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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IN5497 - IN5498 R: 03/17/23 BH

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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	

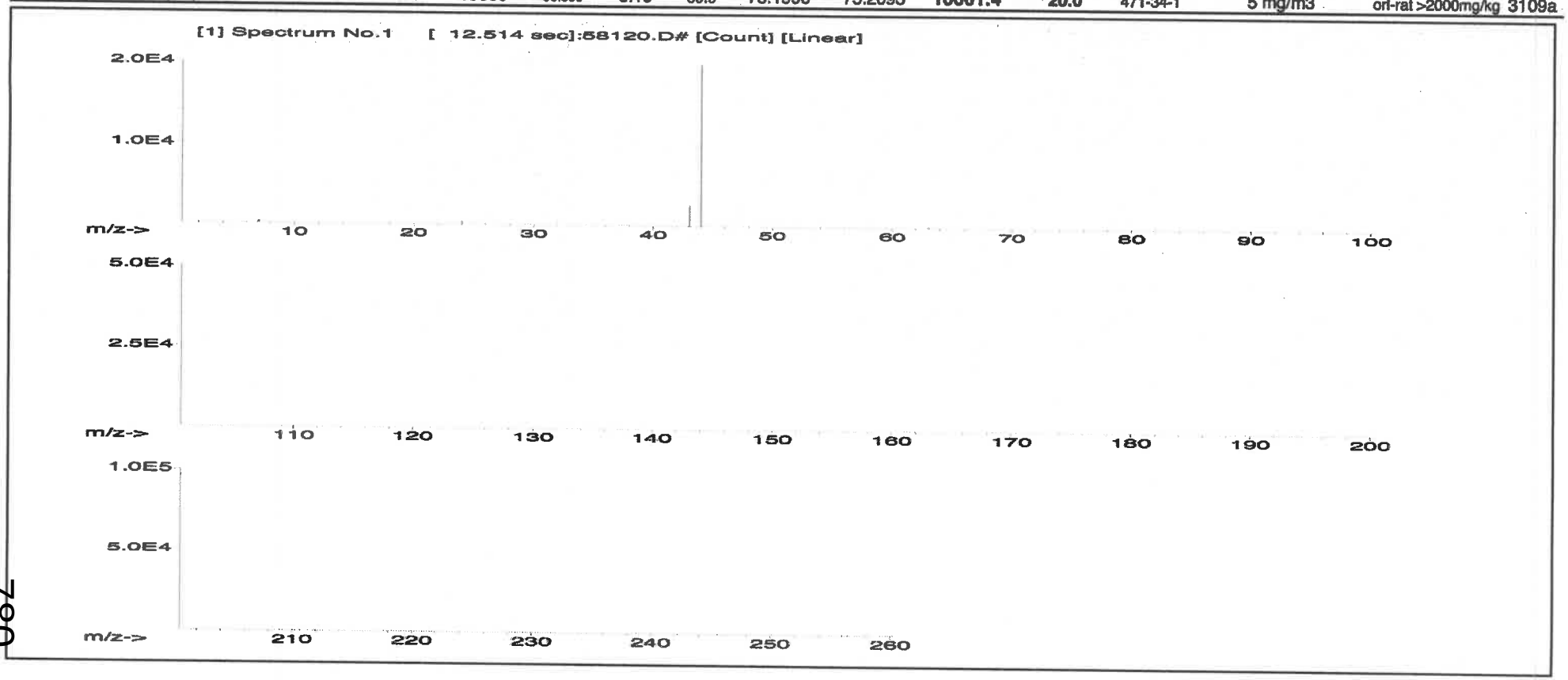
5E-05 Balance Uncertainty

Giovanni Esposito

Formulated By: Giovanni Esposito 031523

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



780

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.
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T84

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CERTIFIED WEIGHT REPORT:

Part Number: 58120
Lot Number: 031523
Description: Calcium (Ca)

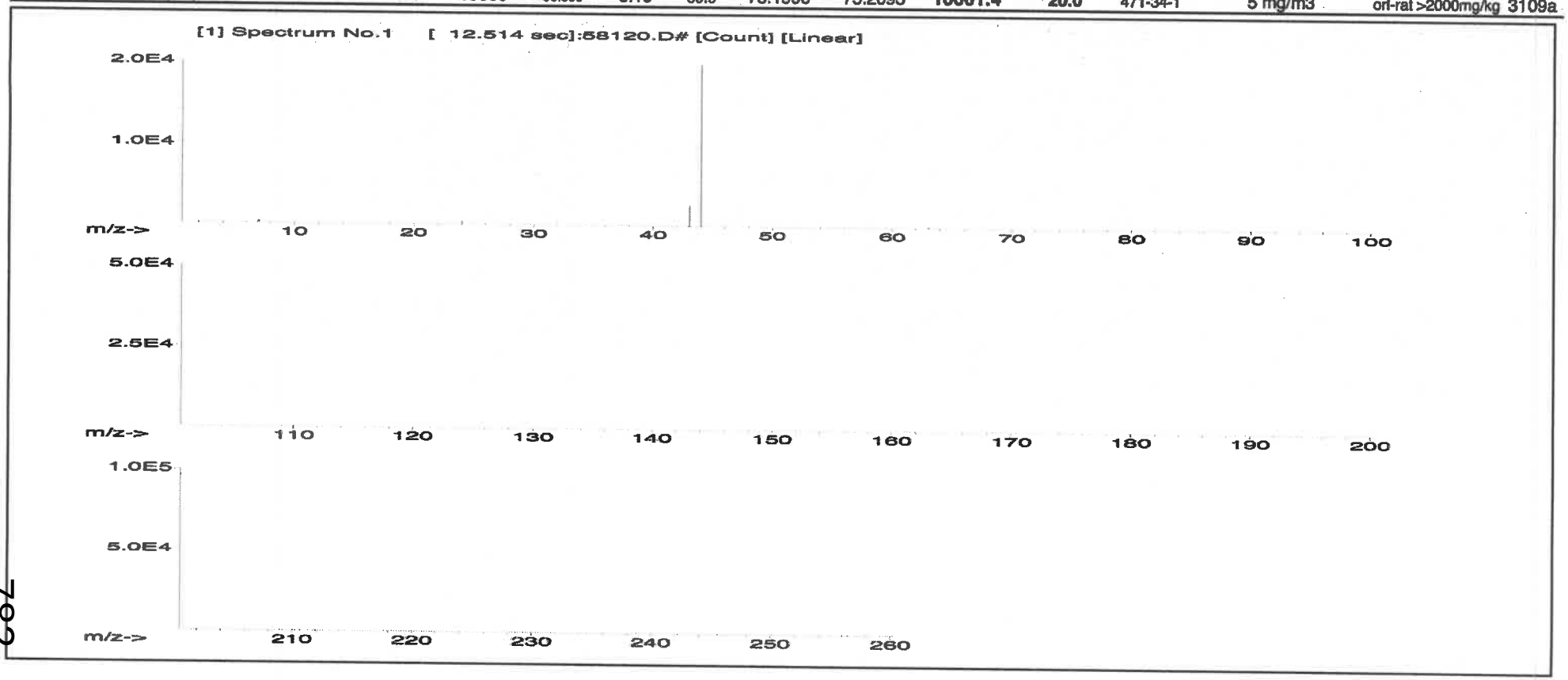
Expiration Date: 031526
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 3000.41 ± 0.058 Flask Uncertainty

		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



782

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.
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* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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MS513 R:03/17/23

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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

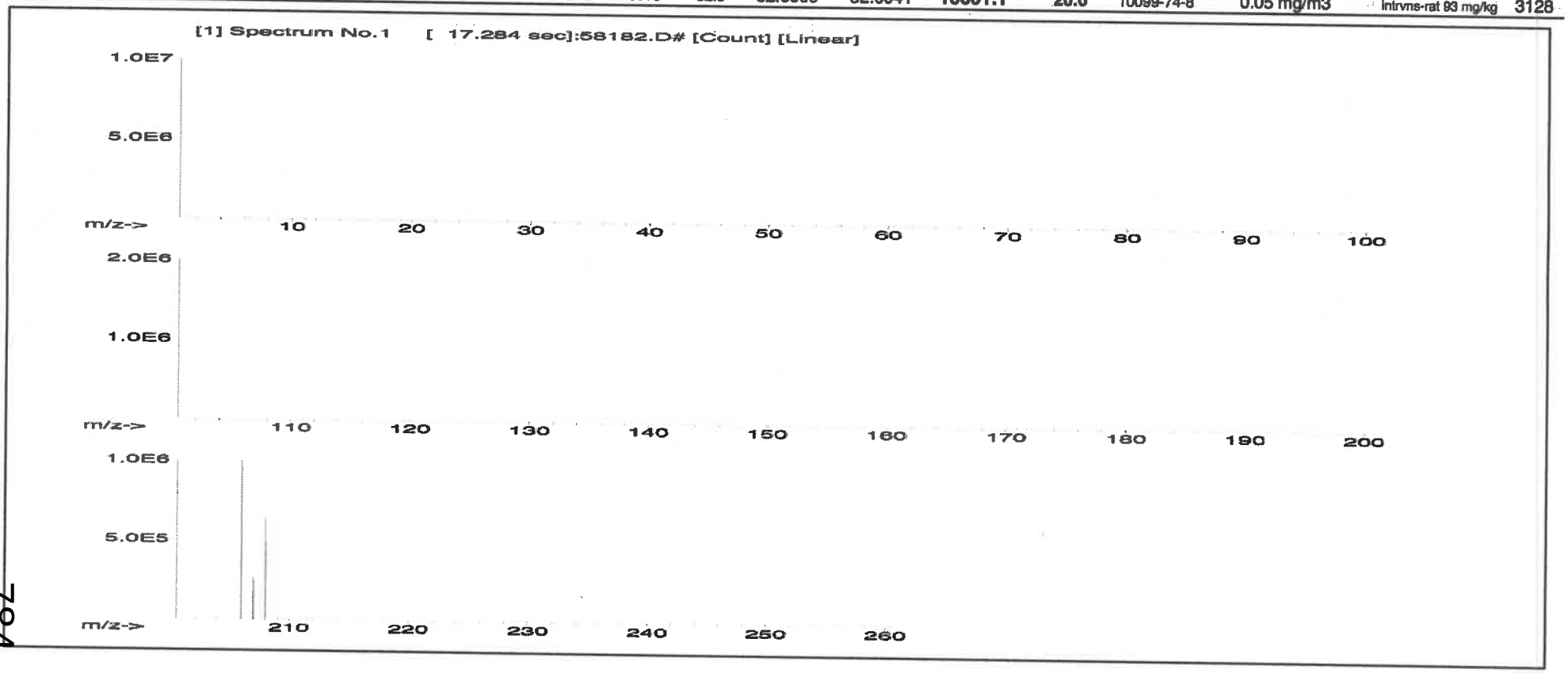
	Lot #		
Solvent:	20510011	Nitric Acid	
2%	40.0 (mL)	Nitric Acid	

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



784

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.
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M5514 , M5515 R: 03/17/23

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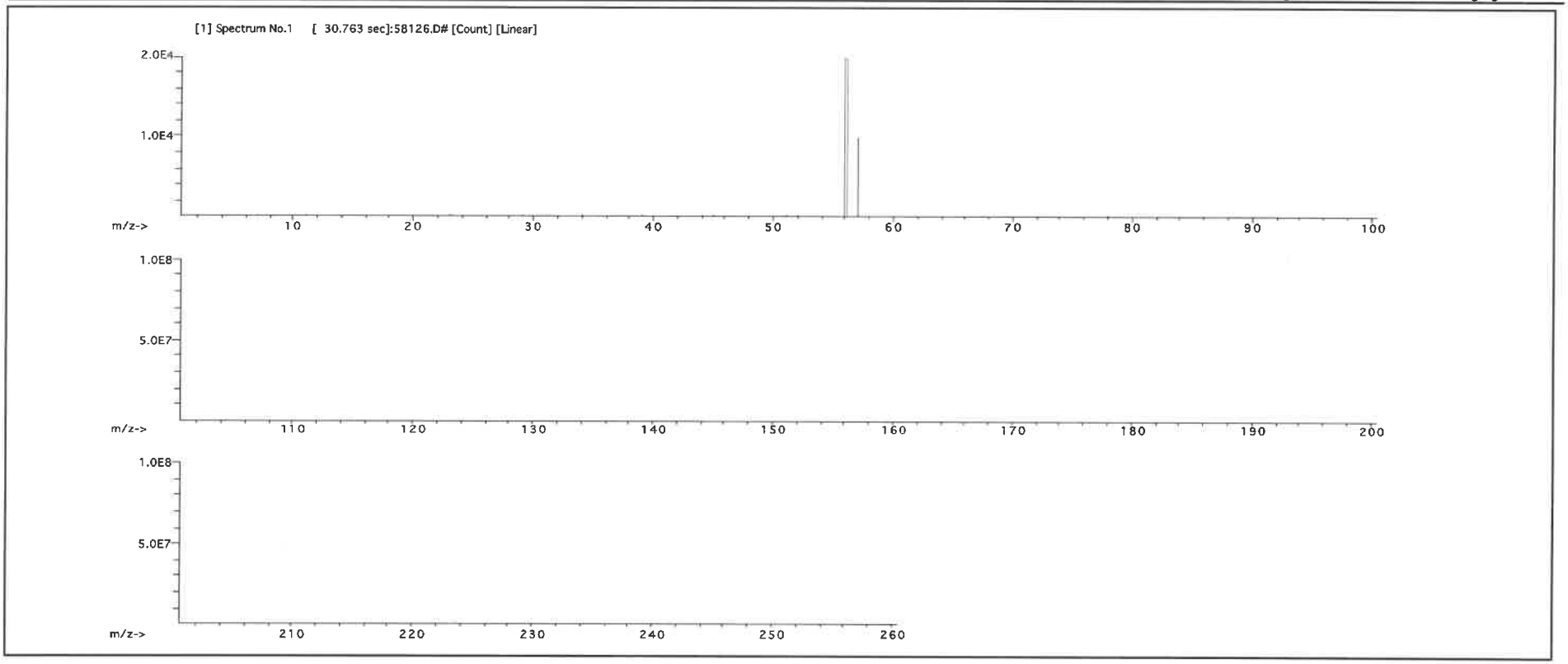
CERTIFIED WEIGHT REPORT:

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:

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

Certified by:

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

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M5519. M5520 (BH) R:03/17/23

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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

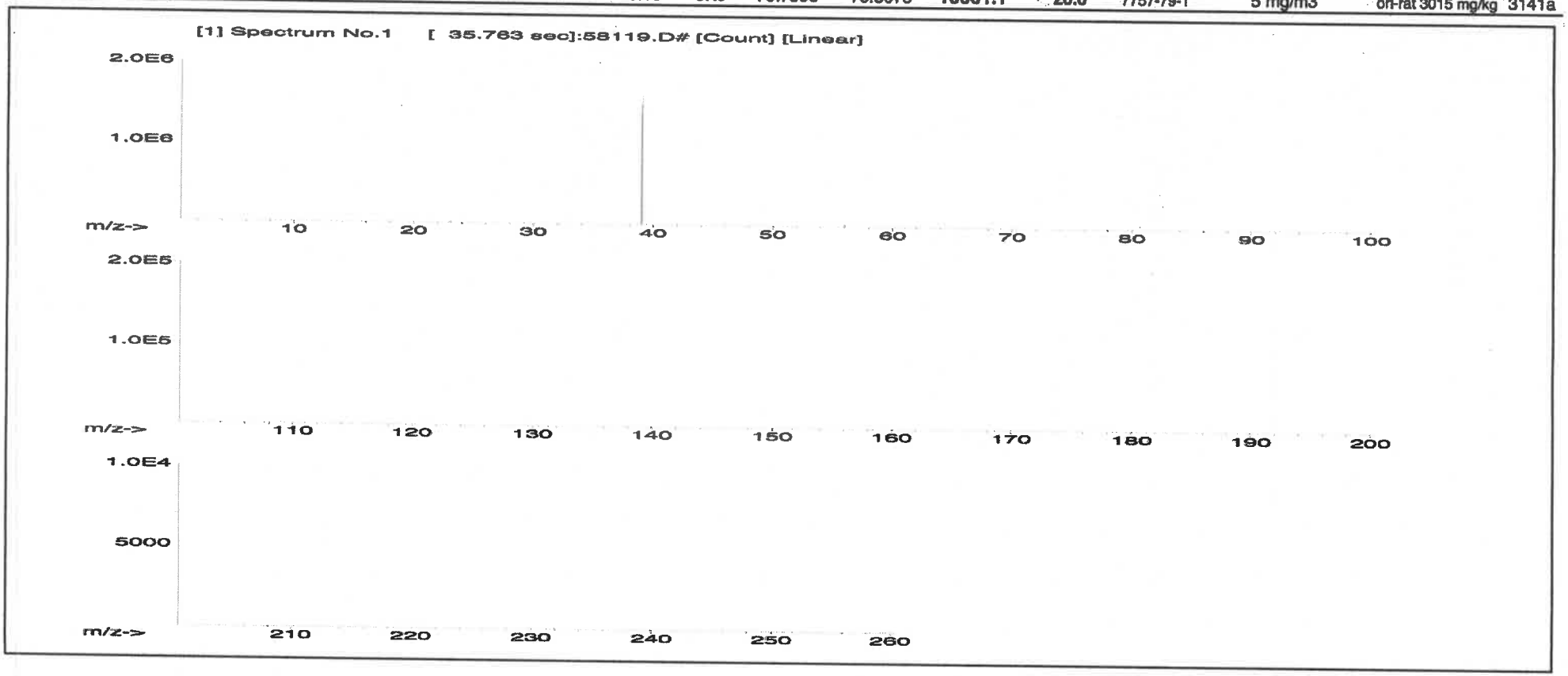
	Lot #		
Solvent:	20510011	Nitric Acid	
2%	60.0 (mL)	Nitric Acid	

5E-05 Balance Uncertainty
0.06 Flask Uncertainty

Giovanni Esposito

Formulated By:	Giovanni Esposito	120822
Reviewed By:	Pedro L. Rentas	120822

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



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

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

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	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.
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* All standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

CORCO CHEMICAL CORPORATION

Manufacturers of ACS Reagents and Semiconductor Grade Chemicals

CERTIFICATE OF ANALYSIS

Date: 8/3/2022 MS631 MS632 MS633 MS634 **Lot No 820803**

Hydrogen Peroxide, ACS
Reagent Grade

TEST	MAXIMUM LIMITS	RESULT
Appearance	Colorless and free from suspended matter or sediment	Pass
Assay	29-32%	31.4%
Color (APHA)	10	5
Residue after Evaporation	0.002%	.0001%
Titratable Acid	0.0006 meq/g	< .0006 meq/g
Chloride (Cl)	2 ppm	< 1 ppm
Nitrate (NO_3)	2 ppm	< 1 ppm
Phosphate	2 ppm	< 1 ppm
Sulfate (SO_4)	5 ppm	< .5 ppm
Ammonium (NH_4)	5 ppm	< 1 ppm
Heavy Metals (as Pb)	1 ppm	< .1 ppm
Iron (Fe)	0.5 ppm	< .1 ppm
Sodium Stannate	200 – 300 ppb	Pass

***Our Hydrogen Peroxide is considered un-stabilized because it is very slightly stabilized with Sodium Stannate, 500 ppb maximum, just for safety purposes.

Date of MFG: 8/2022
Retest date: 8/2024

Gina M. Rambo
Office Manager

CORCO CHEMICAL CORPORATION. 299 CEDAR LANE. FAIRLESS HILLS, PA 19030. 215-295-5006. FAX 215-295-0781

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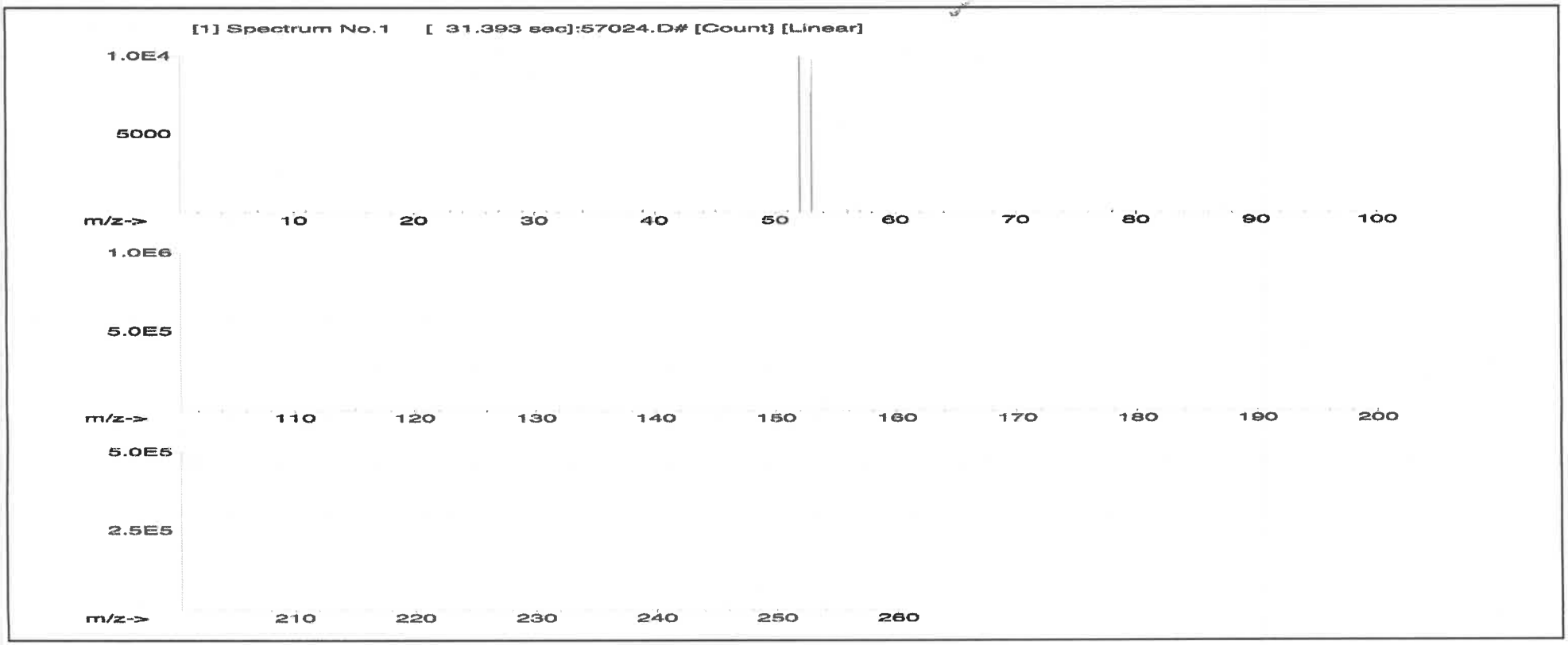
CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:	
Part Number:	**58024**	21110221	Nitric Acid	
Lot Number:	**060523**			
Description:	**Chromium (Cr)**			
		2.0%	40.0 (mL)	Nitric Acid
Expiration Date:	060526			
Recommended Storage:	Ambient (20 °C)			
Nominal Concentration (µg/mL):	**1000**			
NIST Test Number:	6UTB	5E-05	Balance Uncertainty	
Volume shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty	

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

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Chromium(III) nitrate nonahydrate (Cr)	58124	071122	0.1000	200.0	0.084	1000	10000.1	**1000.0**	**2.2**	7789-02-8	0.5 mg(Cr)/m3	orl-rat 3250 mg/kg	3112a



792

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.
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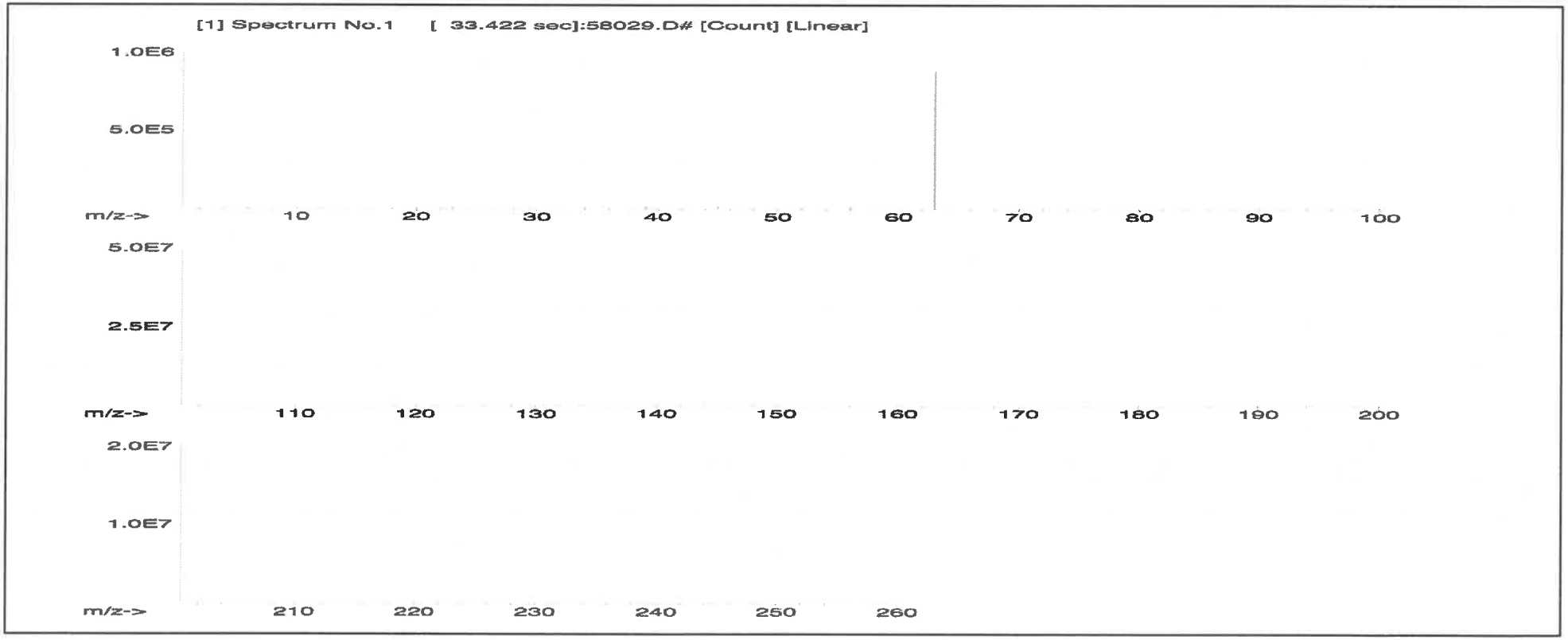
CERTIFIED WEIGHT REPORT:

		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



794

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.
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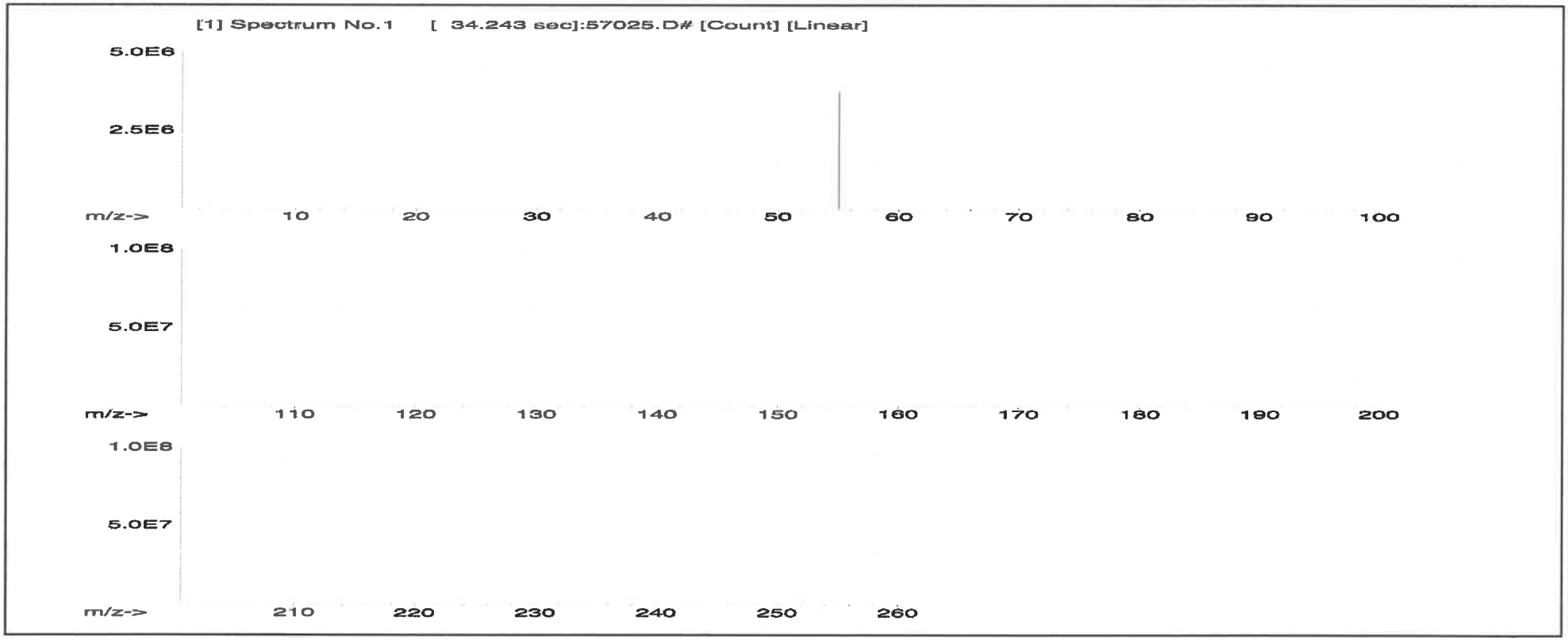
CERTIFIED WEIGHT REPORT:

		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



7967

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:

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R: 8/25/23 M5751

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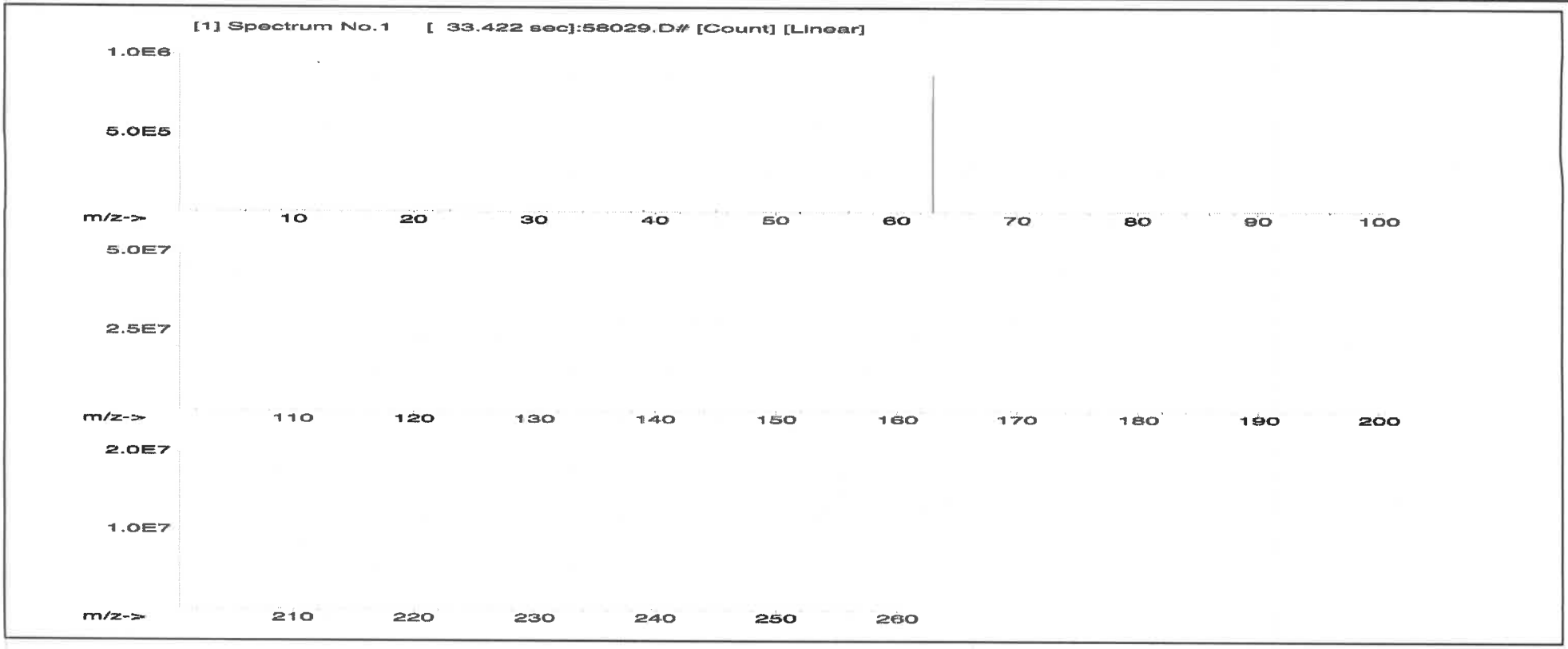
CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:	
Part Number:	**58029**	21110221	Nitric Acid	
Lot Number:	**071723**			
Description:	**Copper (Cu)**	2.0%	40.0 (mL)	Nitric Acid
Expiration Date:	071726			
Recommended Storage:	Ambient (20 °C)			
Nominal Concentration (µg/mL):	**1000**			
NIST Test Number:	6UTB	5E-05	Balance Uncertainty	
Volume shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty	

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

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Copper(II) nitrate trihydrate (Cu)	58129	022723	0.1000	200.0	0.084	1000	10000.5	**1000.0**	**2.2**	10031-43-3	1 mg/m3	orl-rat 794 mg/kg	3114



798

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

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

(T) = Target analyte

Physical Characterization:

Certified by:

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

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* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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M5768 M5769 (BP) R:1/3/24

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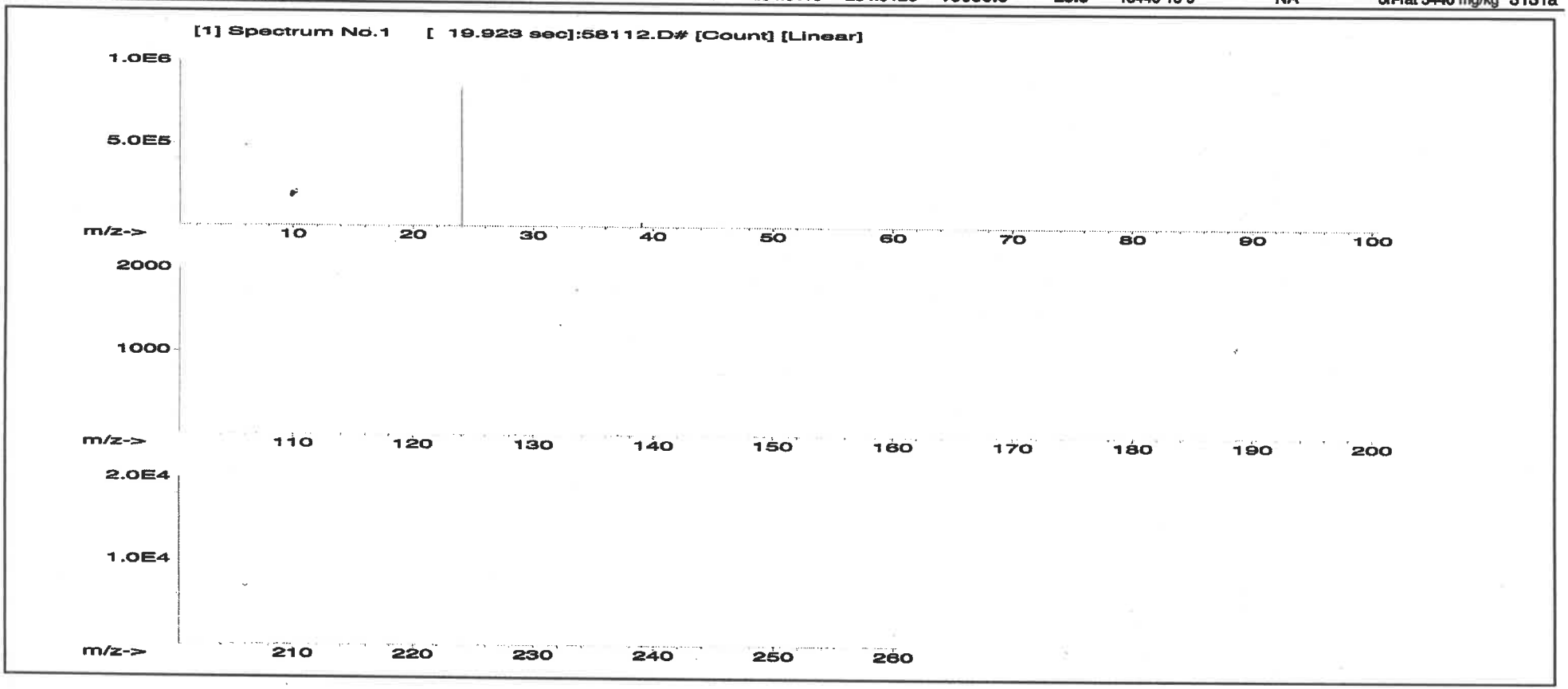
799

CERTIFIED WEIGHT REPORT:

Part Number:	**58112**		**Lot #**		
Lot Number:	**091823**	**Solvent:**	24002546	Nitric Acid	
Description:	**Magnesium (Mg)**				
		2%	40.0 (mL)	Nitric Acid	
Expiration Date:	091826				
Recommended Storage:	Ambient (20 °C)	M5768, M5769	(BP)	R: 1/3/24	
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 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



800

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.
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M5768 M5769 (BP) R:1/3/24

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801

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

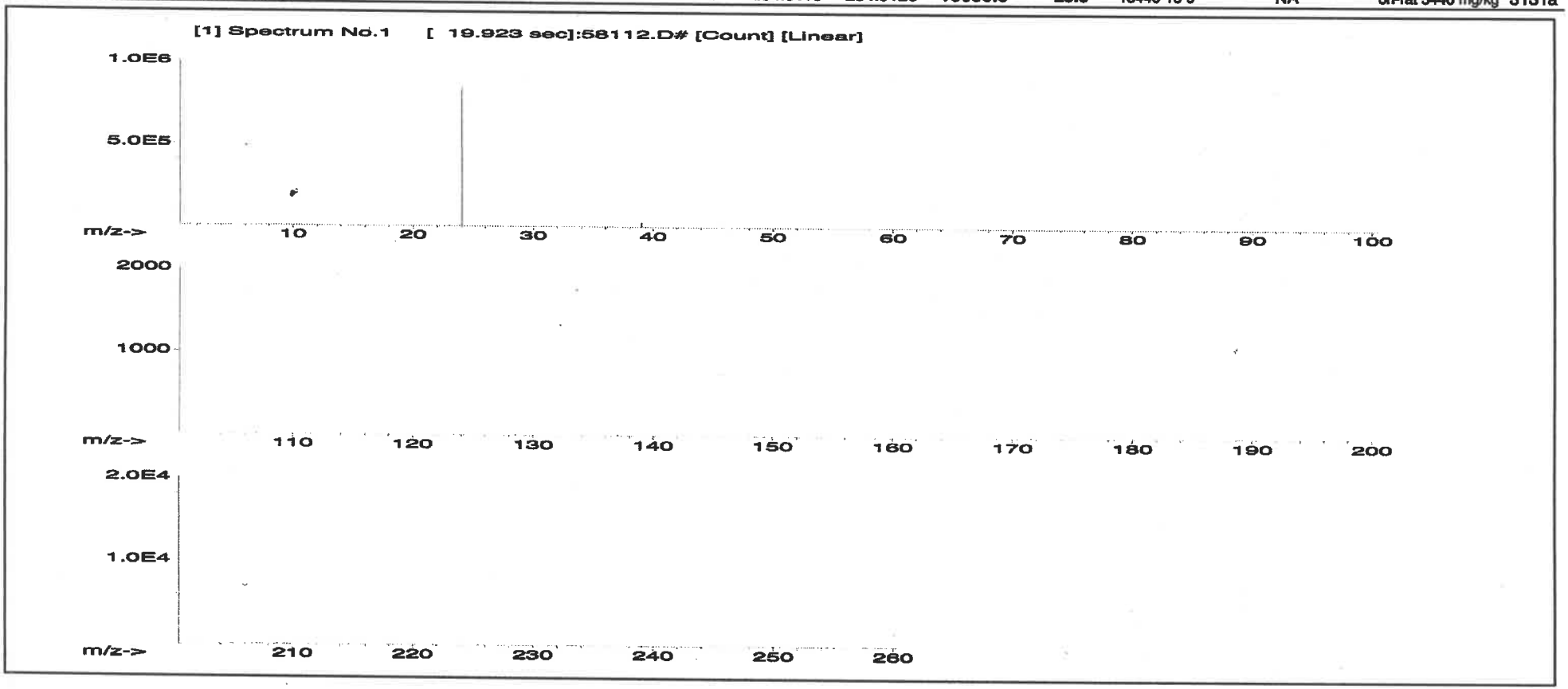
5E-05 Balance Uncertainty

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



802

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:

Certified by:

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

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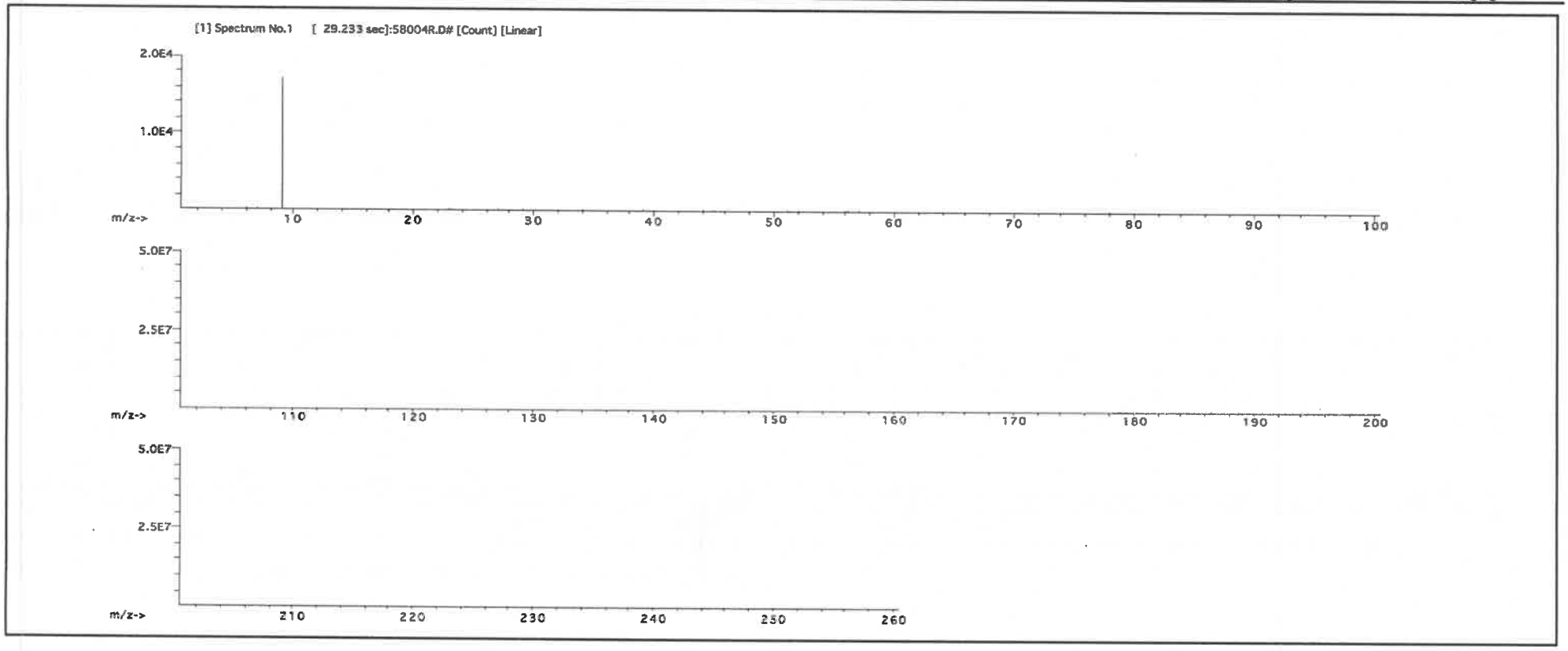
803

CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:	
Part Number:	**57004**	24002546	Nitric Acid	
Lot Number:	**102523**			
Description:	**Beryllium (Be)**	2.0%	40.0 (mL)	Nitric Acid
Expiration Date:	102526			
Recommended Storage:	Ambient (20 °C)			
Nominal Concentration (µg/mL):	**1000**			
NIST Test Number:	6UTB	5E-05	Balance Uncertainty	
Volume shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty	

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

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Beryllium nitrate (Be)	58104	091423	0.1000	200.0	0.084	1000	10001.5	**1000.0**	**2.2**	13597-99-4	0.2ug/m3	intrvns-rat 3.16mg/kg	NA



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

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

(T) = Target analyte

Physical Characterization:

Certified by:

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

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805

CERTIFIED WEIGHT REPORT:

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

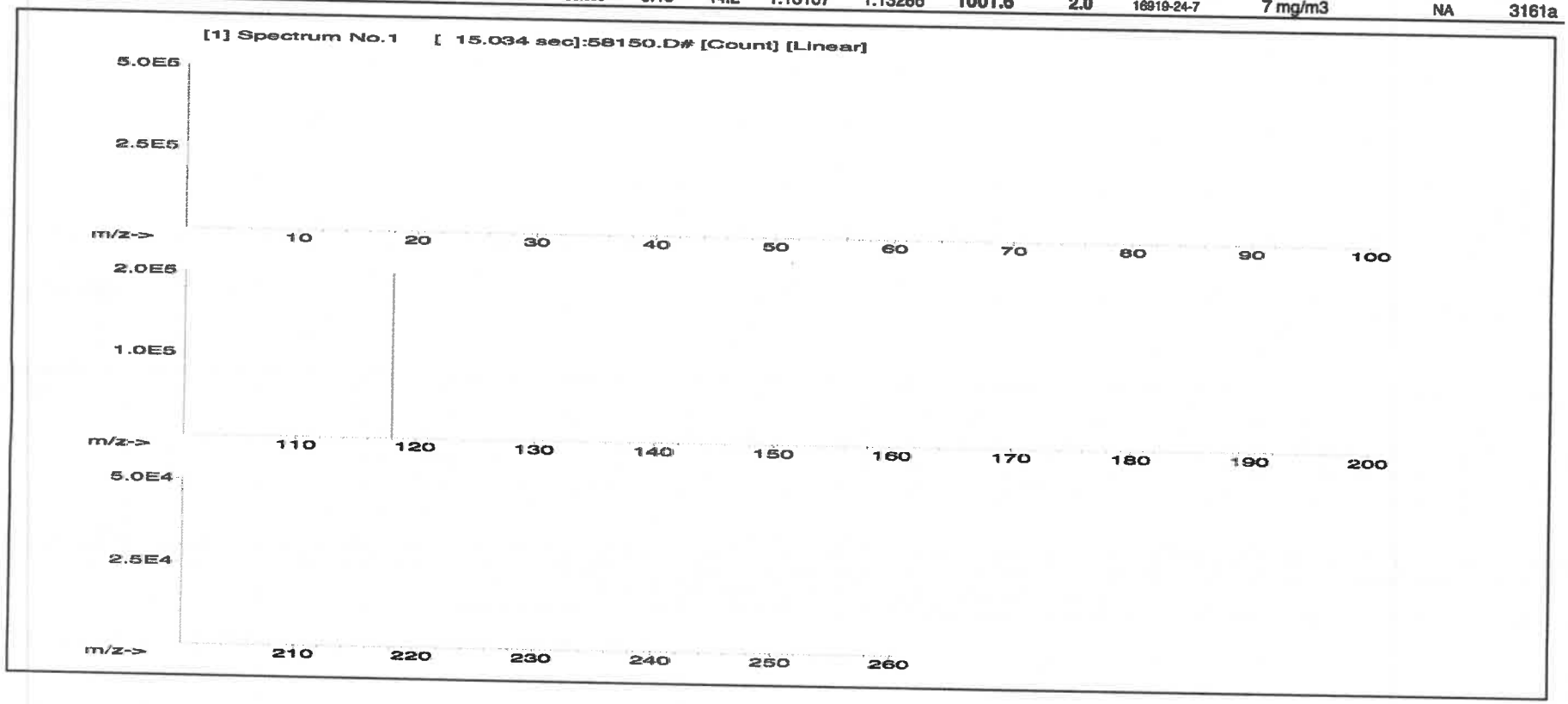
Expiration Date: 071126
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 1000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 499.93

	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



806

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

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<500	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	T	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

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

Certified by:

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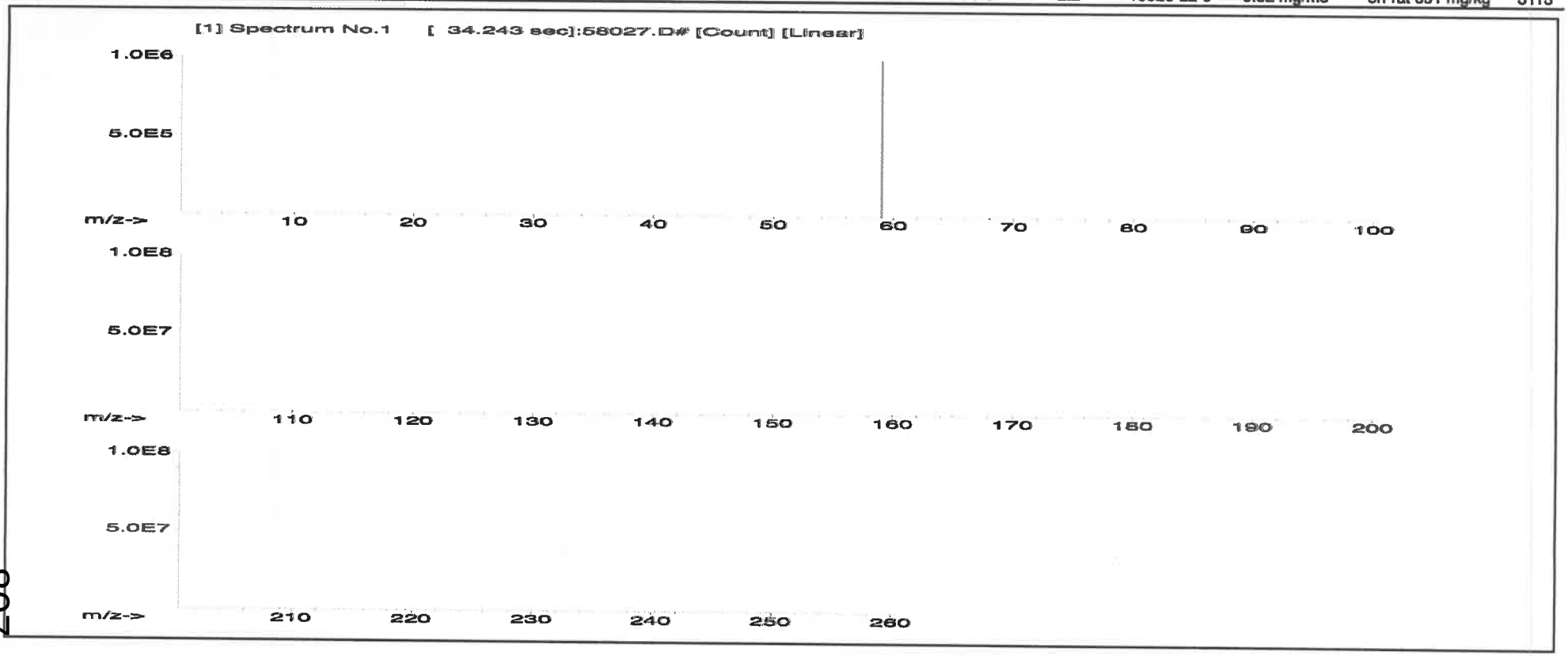
CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:		
Part Number:	**57027**	24002546	Nitric Acid		
Lot Number:	**091923**				
Description:	**Cobalt (Co)**				
		2.0%	40.0 (mL)	Nitric Acid	
Expiration Date:	091926				
Recommended Storage:	Ambient (20 °C)				
Nominal Concentration (µg/mL):	**1000**				
NIST Test Number:	6UTB	5E-05	Balance Uncertainty		
Volume shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty		

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

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Cobalt(II) nitrate hexahydrate (Co)	58127	050923	0.1000	200.0	0.084	1000	10000.0	**1000.0**	**2.2**	10026-22-9	0.02 mg/m3	orl-rat 691 mg/kg	3113



807

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

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

(T)= Target analyte

Physical Characterization:

Certified by:

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

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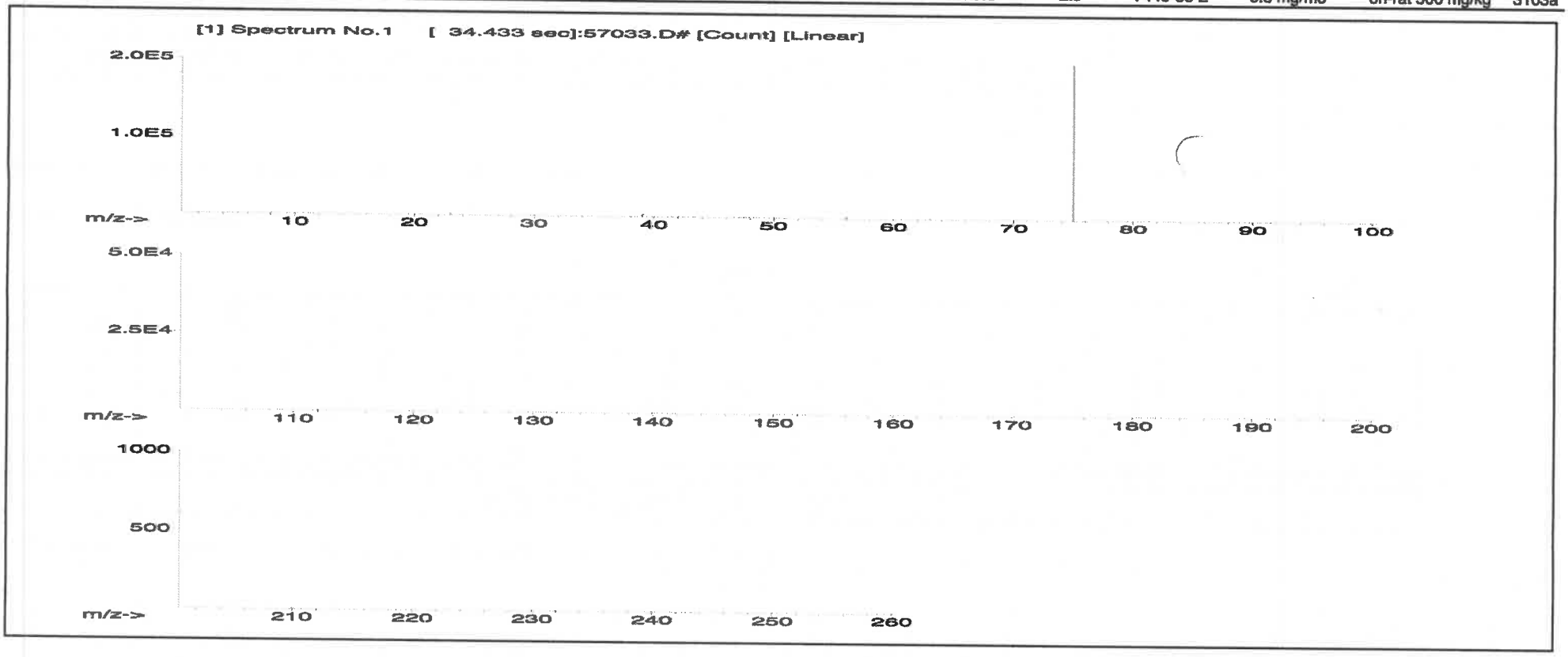
809

CERTIFIED **WEIGHT** REPORT:

		Lot #	Solvent:		
Part Number:	**57033**				
Lot Number:	**111323**	24002546	Nitric Acid		
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



810

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

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

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

(T) = Target analyte

Physical Characterization:

Certified by:

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

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* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
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* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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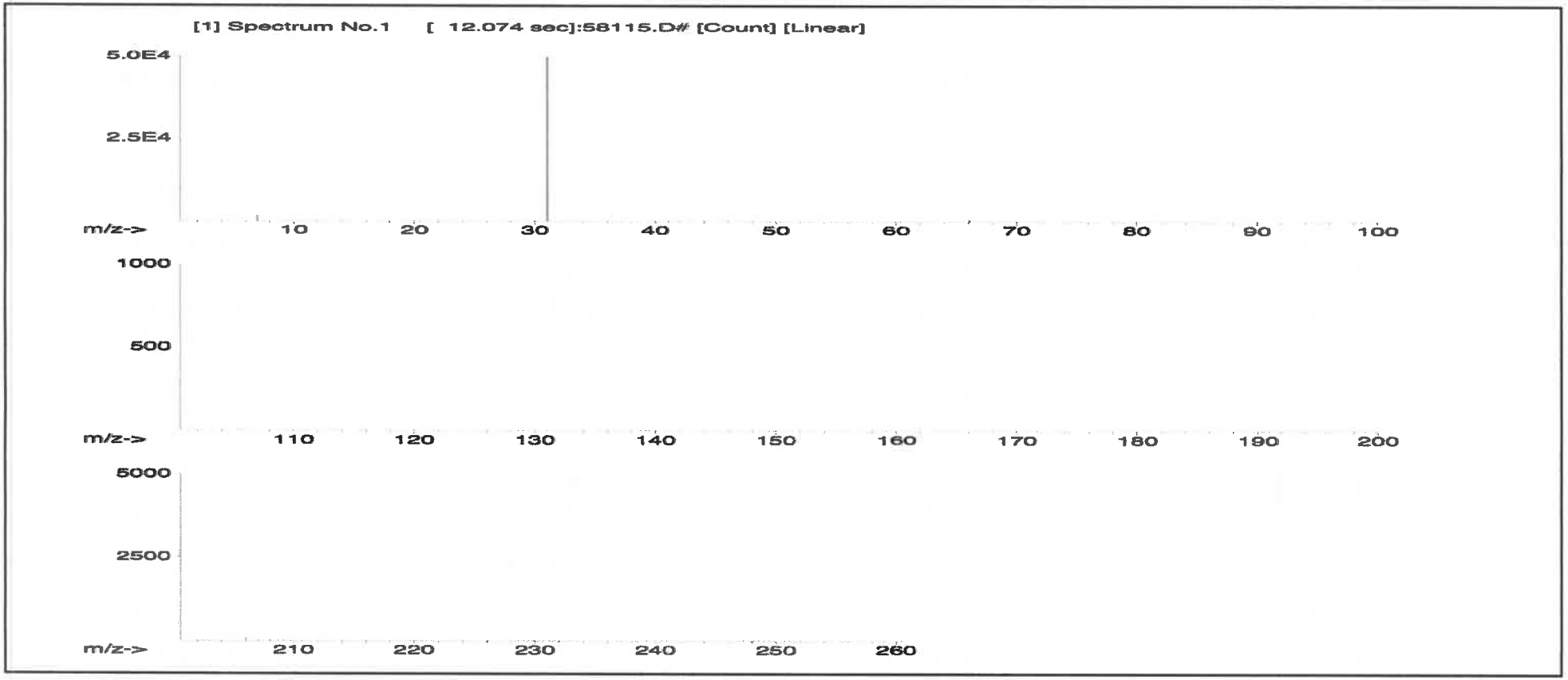
811

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



812

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.
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* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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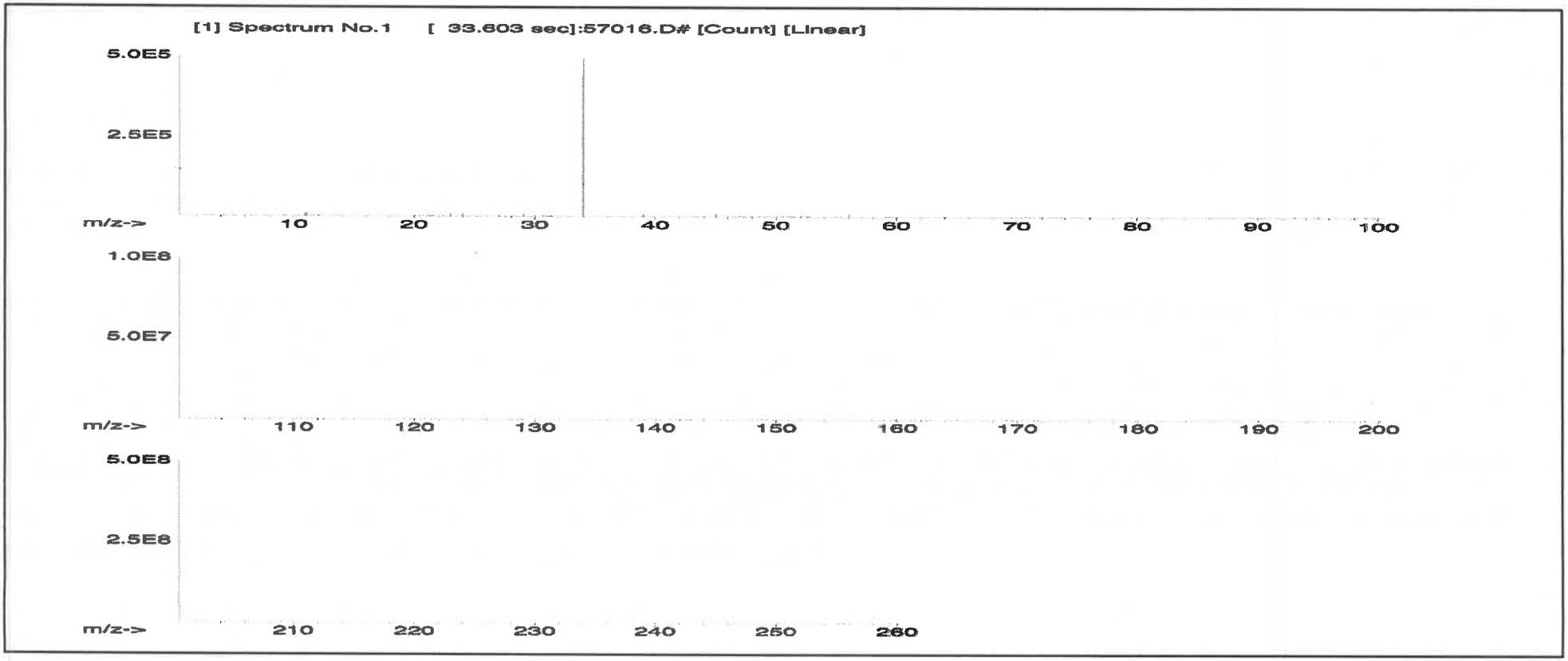
813

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



814

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

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

(T) = Target analyte

Physical Characterization:

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

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
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815

CERTIFIED WEIGHT REPORT:

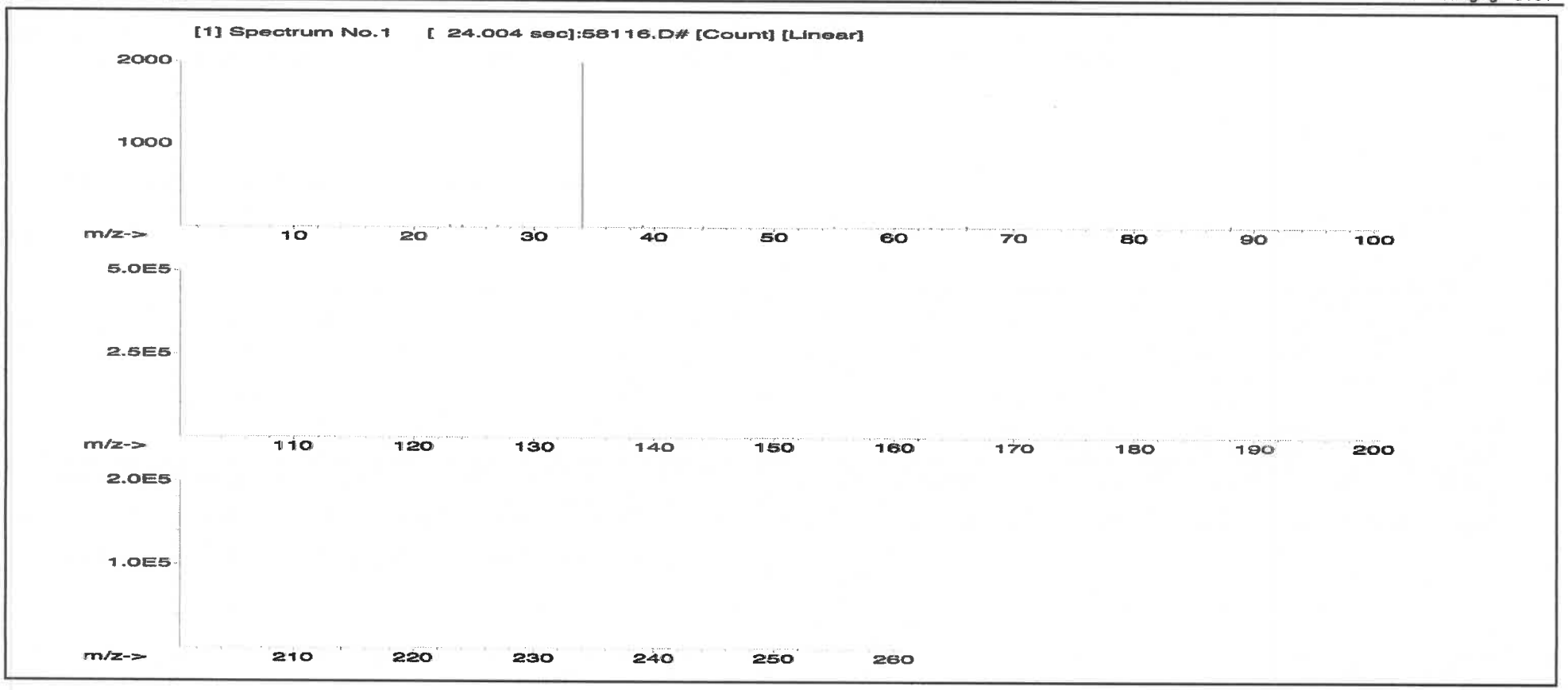
Part Number: 57116
Lot Number: 071123
Description: Sulfur (S)

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	ori-rat 4250mg/kg	3181



816

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

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

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

(T)= Target analyte

Physical Characterization:

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

Certified by:

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817

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

Solvent: 24002546 Nitric Acid

2% 40.0 (mL) Nitric Acid

5E-05 Balance Uncertainty

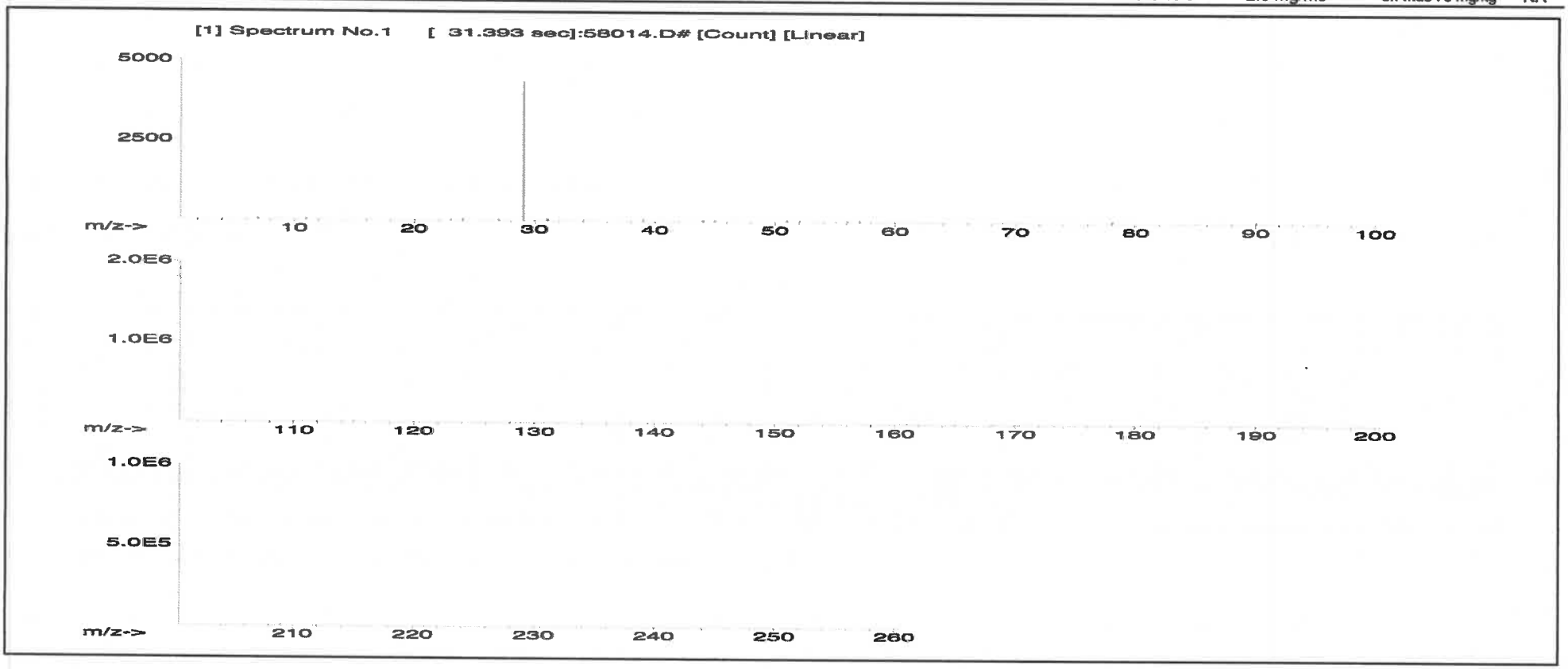
Aleah O'Brady

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



818

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:

Certified by:

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

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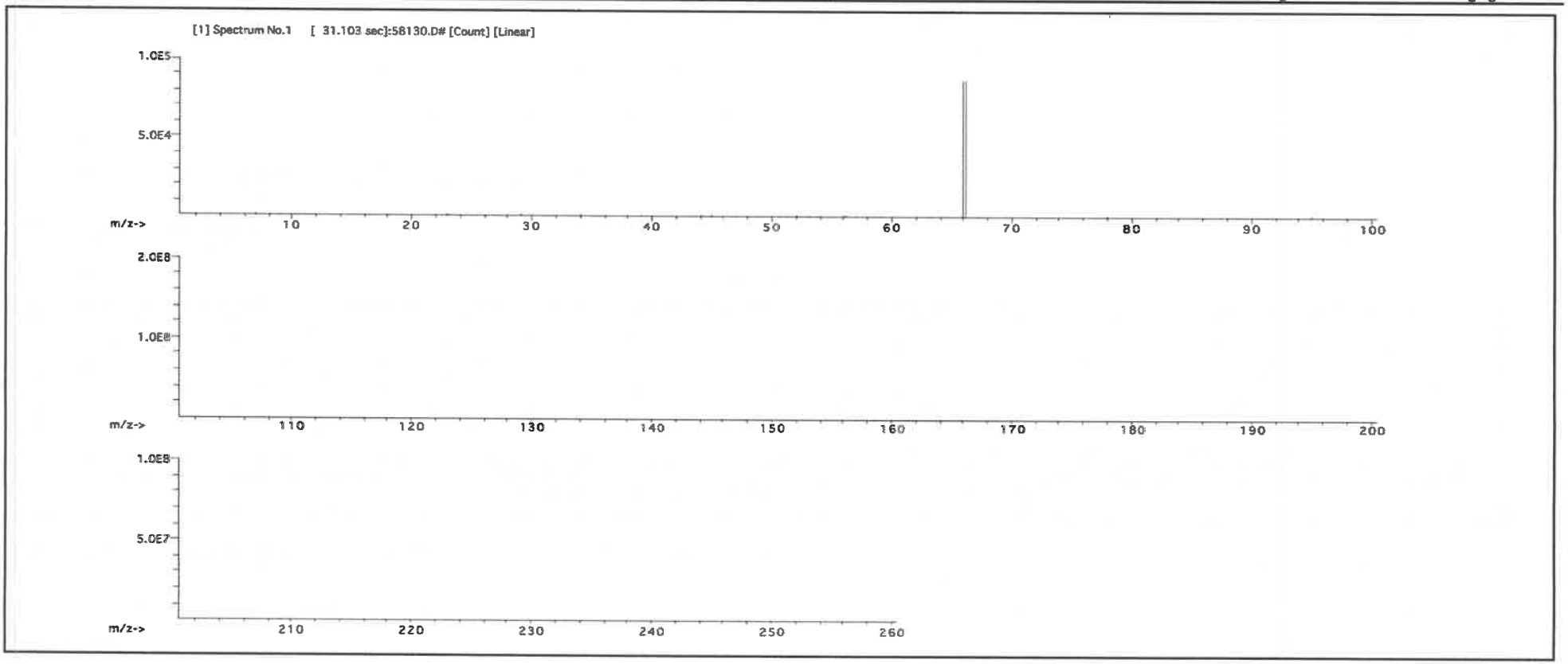
819

CERTIFIED WEIGHT REPORT:

Part Number:	**58030**			
Lot Number:	**111623**			
Description:	**Zinc (Zn)**			
			Lot #	
		Solvent:	24002546	Nitric Acid
		2%	60.0 (mL)	Nitric Acid
Expiration Date:	111626			
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):	3000.4	0.06	Flask Uncertainty	

Formulated By:	Benson Chan	111623
Reviewed By:	Pedro L. Rentas	111623

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



820

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:

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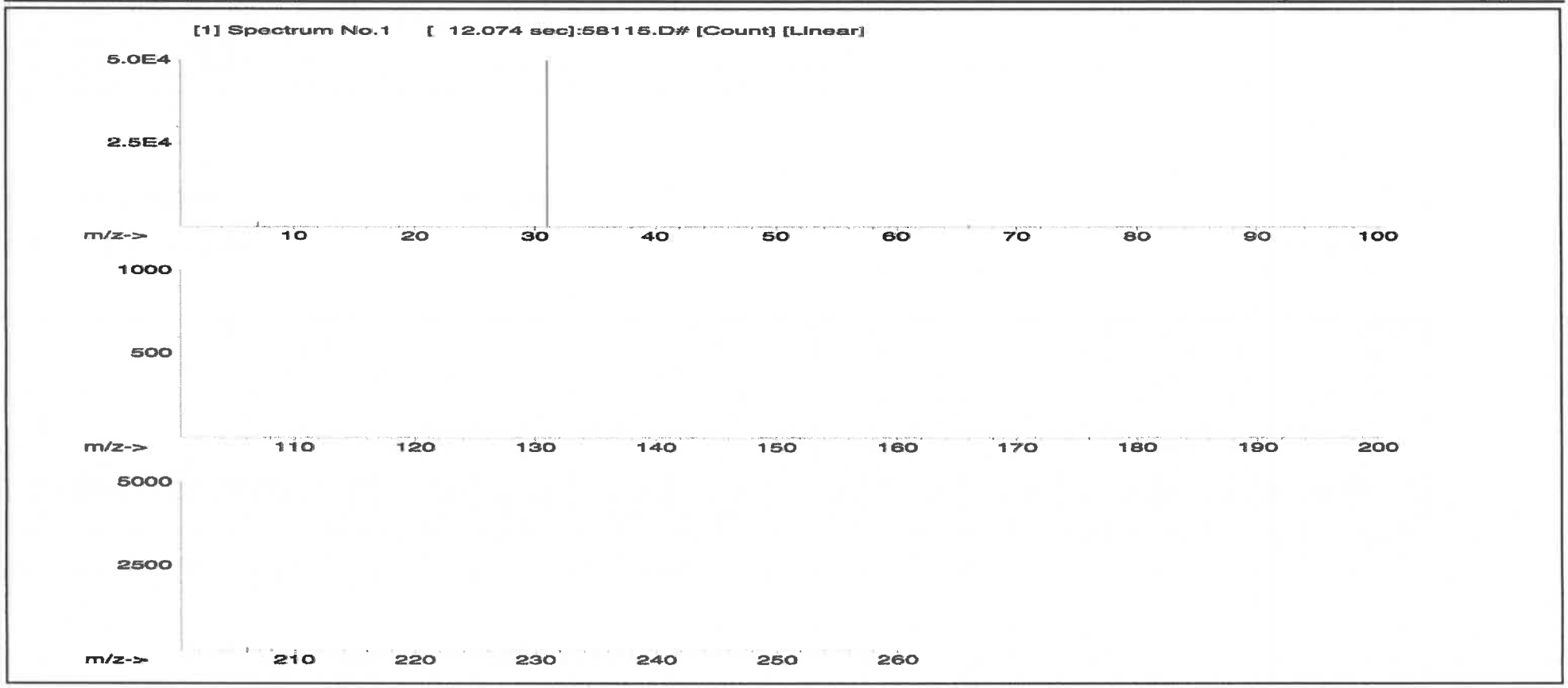
CERTIFIED WEIGHT REPORT:

Part Number:	**57015**		**Lot #**		
Lot Number:	**091123**	**Solvent:**	24002546	Nitric Acid	
Description:	**Phosphorous (P)**				
		2%	40.0 (mL)	Nitric Acid	
Expiration Date:	091126				
Recommended Storage:	Ambient (20 °C)				
Nominal Concentration (µg/mL):	**1000**				
NIST Test Number:	6UTB	5E-05	Balance Uncertainty		
Weight shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty		

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

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Ammonium dihydrogen phosphate (P)	IN008	PV082019A1	1000	99.999	0.10	27.5	7.2729	7.2730	**1000.0**	**2.0**	7722-76-1	5 mg/m3	orl-rat >2000mg/k	3186



822

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).

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M5959 R: 6/14/24.

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1.0 ACCREDITATION / REGISTRATION

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

ACCREDITED Testing Laboratory Certificate 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.

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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

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11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

February 20, 2024

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

11.2 Lot Expiration Date

- February 20, 2029

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

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

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

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

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Prepared By:

Uyen Truong
Custom Processing Supervisor

Certificate Approved By:

Muzzammil Khan
Stock Laboratory Supervisor

Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

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Certified Reference Material CRM

M5960 KK R. 6/11/24

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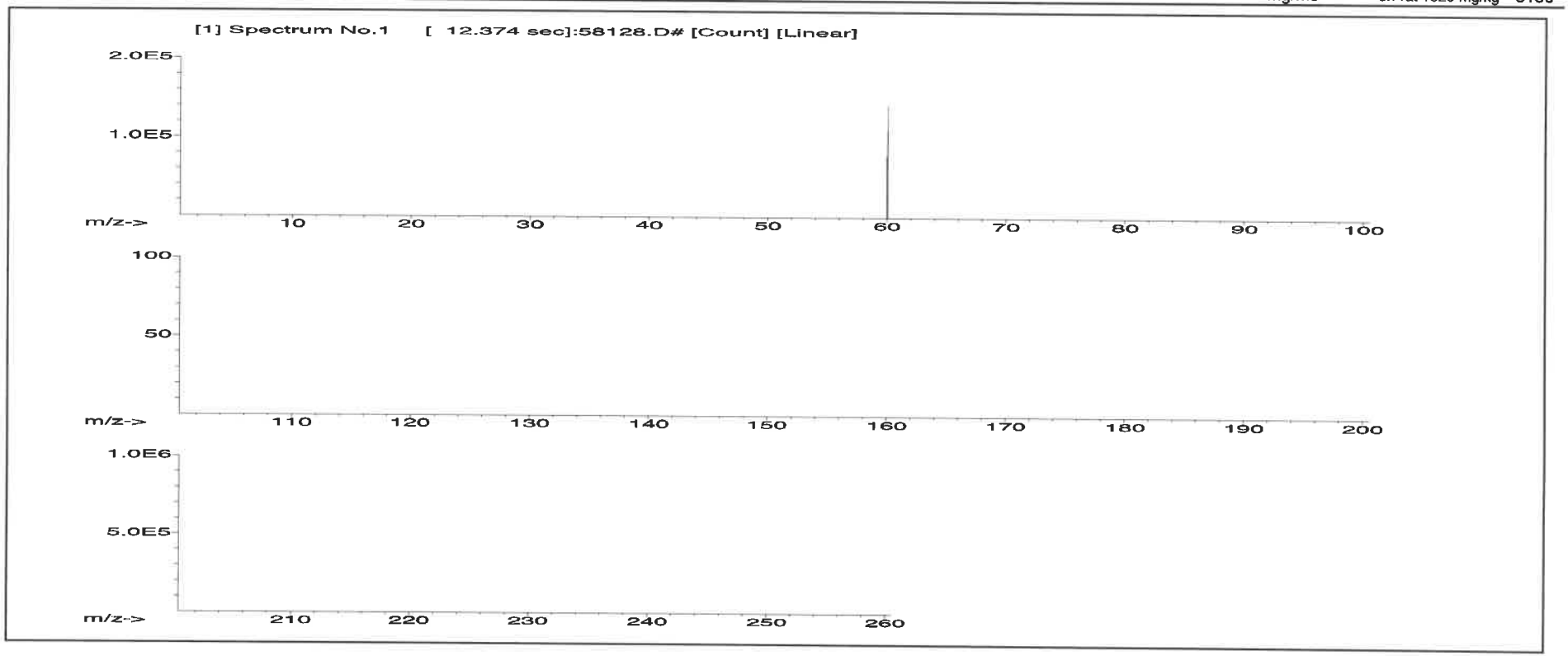
CERTIFIED WEIGHT REPORT:

Part Number:	**57028**			**Lot #**	
Lot Number:	**041124**	**Solvent:**	24002546	Nitric Acid	
Description:	**Nickel (Ni)**				
		2%	5.0 (mL)	Nitric Acid	
Expiration Date:	041127				
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):	249.85	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



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

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

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	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).

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Certified Reference Material CRM

M5962 R! 06/14/24.

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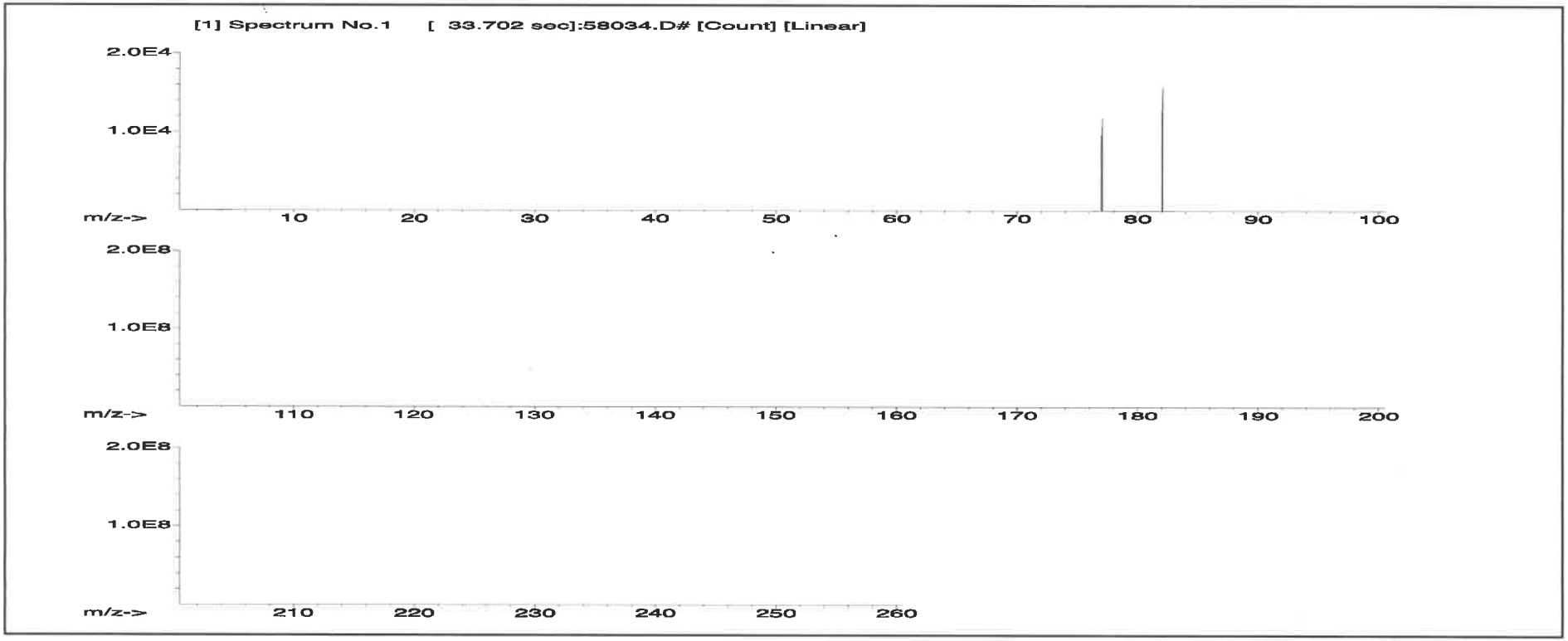
CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:	
Part Number:	**57034**	24002546	Nitric Acid	
Lot Number:	**060624**			
Description:	**Selenium (Se)**			
		2.0%	40.0 (mL)	Nitric Acid
Expiration Date:	060627			
Recommended Storage:	Ambient (20 °C)			
Nominal Concentration (µg/mL):	**1000**			
NIST Test Number:	6UTB	5E-05	Balance Uncertainty	
Volume shown below was diluted to (mL):	2000.07	0.100	Flask Uncertainty	

Formulated By:	Benson Chan	060624
Reviewed By:	Pedro L. Rentas	060624

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Selenium (Se)	58134	071223	0.1000	200.0	0.084	1000	10002.5	**1000.0**	**2.2**	7782-49-2	0.2 mg/m3	orl-rat 6700 mg/kg	3149



830

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

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

(T) = Target analyte

Physical Characterization:

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

Certified by:

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

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Certified Reference Material CRM

M5970, M5971 R: 7/01/24

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AR-1539 Certificate Number
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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

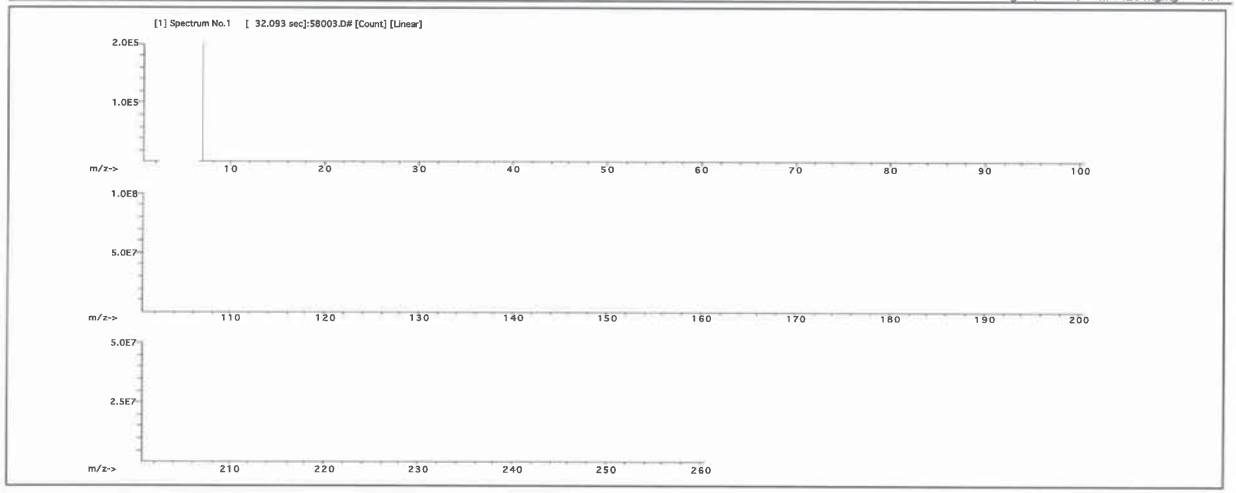
Lot #	Solvent:		
24002546	Nitric Acid		
2.0%	5.0 (mL)	Nitric Acid	

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



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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).

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Certificate of Analysis

M5976, M5977
R: 02/22/24

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1.0 ACCREDITATION / REGISTRATION

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

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	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

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4.0 TRACEABILITY TO NIST

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

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

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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

837

M5978, M5979

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1.0 ACCREDITATION / REGISTRATION

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ACCREDITED Testing Laboratory Certificate 883.01 ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGTI1
Lot Number:	T2-TI719972
Matrix:	2% (v/v) HNO3 tr. HF
Value / Analyte(s):	1 000 µg/mL ea: Titanium
Starting Material:	Ti Metal
Starting Material Lot#:	2094
Starting Material Purity:	99.9975%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 1002 ± 5 µg/mL

Density: 1.012 g/mL (measured at 20 ± 4 °C)

Assay Information:

Assay Method #1 **1002 ± 4 µg/mL**
ICP Assay NIST SRM 3162a Lot Number: 130925

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

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

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

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$
w_i = the weighting factors for each method calculated using the inverse square of the variance

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

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

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	<	0.000536	M	Eu	<	0.000268	O	Na	<	0.032670	M	Se		0.001204	O	Zn	<	0.003267
O	Al		0.000872	O	Fe		0.003225	O	Nb	<	0.043560	O	Si		0.004735	O	Zr	<	0.043560
M	As	<	0.008586	M	Ga	<	0.000268	M	Nd	<	0.000268	M	Sm	<	0.000268				
M	Au	<	0.004577	M	Gd	<	0.000268	O	Ni	<	0.010890	M	Sn		0.000096				
O	B	<	0.008929	M	Ge	<	0.002146	M	Os	<	0.000269	O	Sr		0.000096				
M	Ba	<	0.002683	M	Hf		0.002161	O	P	<	0.054450	M	Ta		0.010560				
M	Be	<	0.005366	M	Hg	<	0.003231	M	Pb	<	0.001073	M	Tb	<	0.000268				
M	Bi	<	0.001609	M	Ho	<	0.000268	M	Pd	<	0.000268	M	Te	<	0.001341				
O	Ca		0.000676	M	In	<	0.002683	M	Pr	<	0.000268	M	Th	<	0.053663				
M	Cd	<	0.000268	M	Ir	<	0.000269	M	Pt	<	0.000536	s	Ti	<					
M	Ce	<	0.000268	M	K		0.001172	M	Rb	<	0.000268	M	Tl	<	0.000268				
M	Co	<	0.004293	M	La	<	0.000268	M	Re	<	0.000268	M	Tm	<	0.000268				
M	Cr		0.000752	O	Li	<	0.027225	M	Rh	<	0.000268	M	U	<	0.000268				
M	Cs	<	0.000268	M	Lu	<	0.000268	M	Ru	<	0.000269	M	V	<	0.019855				
O	Cu	<	0.010890	O	Mg	<	0.005445	i	S	<		M	W		0.000473				
M	Dy	<	0.000268	O	Mn	<	0.003267	M	Sb	<	0.006976	M	Y	<	0.002146				
M	Er	<	0.000268	M	Mo		0.000774	O	Sc	<	0.004900	M	Yb	<	0.000536				

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

6.0 INTENDED USE

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

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

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

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

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

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

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 47.87 +4 6 Ti(F)6-2

Chemical Compatibility - Soluble in concentrated HCl, HF, H3PO4 H2SO4 and HNO3. Avoid neutral to basic media. Unstable at ppm levels with metals that would pull F- away (i.e. Do not mix with Alkaline or Rare Earths or high levels of transition elements unless they are fluorinated). Stable with most inorganic anions with a tendency to hydrolyze forming the hydrated oxide in all dilute acids except HF.

Stability - 2-100 ppb levels stable (Alone or mixed with all other metals) as the Ti(F)6-2 for months in 1% HNO3 / LDPE container. 1-10,000 ppm single element solutions as the Ti(F)6-2 chemically stable for years in 2-5% HNO3 / trace HF in an LDPE container.

Ti Containing Samples (Preparation and Solution) - Metal (Soluble in H2O / HF caution -powder reacts violently); Oxide - low temperature history anatase or rutile (Dissolved by heating in 1:1:1 H2O / HF / H2SO4); Oxide - high temperature history (~800EC) brookite (fuse in Pt0 with K2S2O7); Ores (fuse in Pt0 with KF + K2S2O7 - no KF if silica not present); Organic Matrices (Dry ash at 450EC in Pt0 and dissolve by heating with 1:1:1 H2O / HF / H2SO4 or fuse ash with pyrosulfate if oxide is as plastic pigment and likely in brookite crystalline form).

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

Technique/Line	Estimated D.L.	Order	Interferences (underlined indicates severe)
ICP-MS 48 amu	14 ppt	N/A	32S16O, 32S14N, 14N16O18O, 14N17N2, 36Ar12C, 48Ca, [96X=2 (where X = Zr, Mo, Ru)]
ICP-OES 323.452 nm	0.0054 / 0.00092 µg/mL	1	Ce, Ar, Ni
ICP-OES 334.941 nm	0.0038 / 0.000028 µg/mL	1	Nb, Ta, Cr, U
ICP-OES 336.121 nm	0.0053 / 0.000034 µg/mL	1	W, Mo, Co

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

8.0 HAZARDOUS INFORMATION

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

9.0 HOMOGENEITY

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

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

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

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

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

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

June 17, 2022

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

11.2 Lot Expiration Date

- June 17, 2027

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

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

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

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

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Thomas Kozikowski
Manager, Quality Control

Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

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

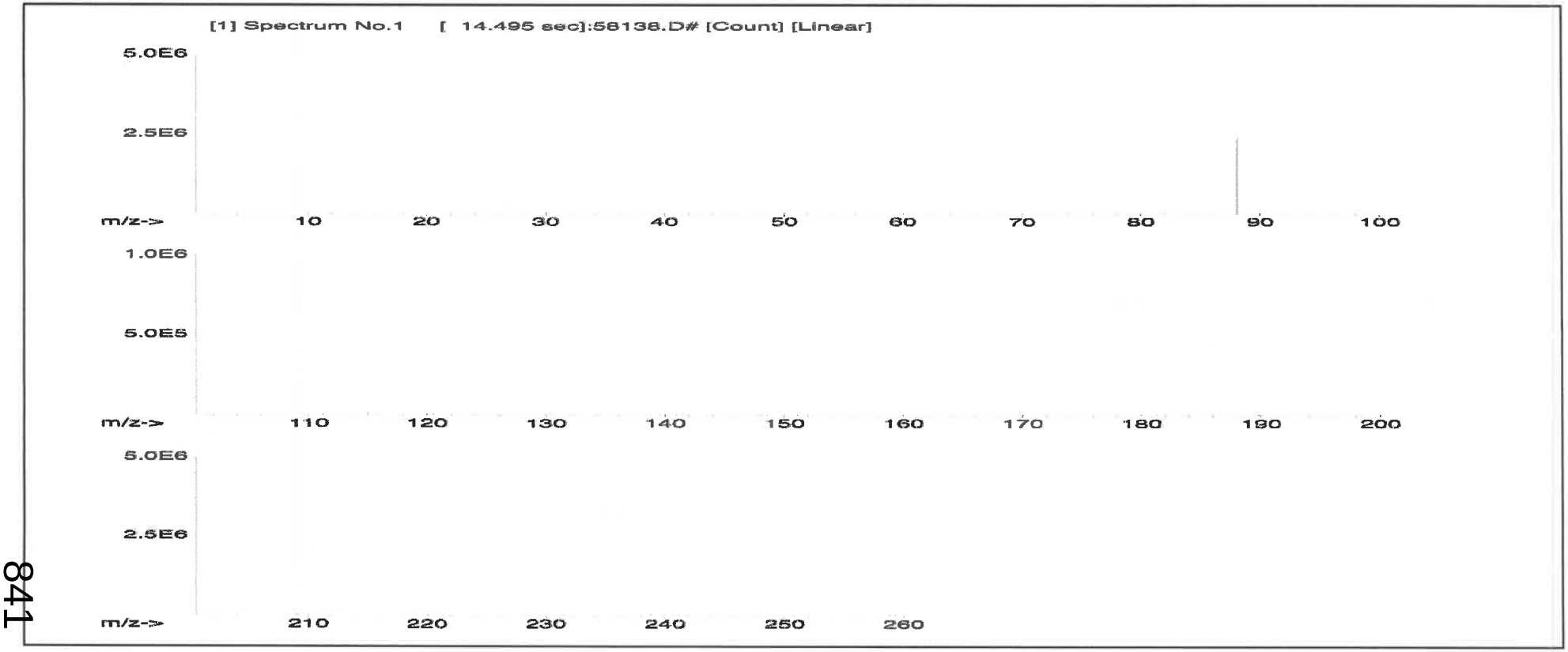
45982 R: 6/11/24

CERTIFIED WEIGHT REPORT:

Part Number:	**57038**		**Lot #**		
Lot Number:	**031524**	**Solvent:**	24002546	Nitric Acid	
Description:	**Strontium (Sr)**				
		2%	40.0 (mL)	Nitric Acid	
Expiration Date:	031527				
Recommended Storage:	Ambient (20 °C)				
Nominal Concentration (µg/mL):	**1000**				
NIST Test Number:	6UTB	5E-05	Balance Uncertainty		
Weight shown below was diluted to (mL):	2000.07	0.100	Flask Uncertainty		

Formulated By:	Benson Chan	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



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

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

(T) = Target analyte

Physical Characterization:

Certified by:

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

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

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Certificate of Analysis

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

1.0 ACCREDITATION / REGISTRATION

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

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGY10
Lot Number:	V2-Y740548
Matrix:	2% (v/v) HNO3
Value / Analyte(s):	10 000 µg/mL ea: Yttrium
Starting Material:	Yttrium Oxide
Starting Material Lot#:	2661 and 06230520YL
Starting Material Purity:	99.9984%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10000 ± 30 µg/mL

Density: 1.032 g/mL (measured at 20 ± 4 °C)

Assay Information:

Assay Method #1	**10011 ± 25 µg/mL** EDTA NIST SRM 928 Lot Number: 928
Assay Method #2	**9997 ± 50 µg/mL** ICP Assay NIST SRM 3167a Lot Number: 190730
Assay Method #3	**9984 ± 31 µg/mL** Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

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

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

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

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

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

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\ (u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\ (u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

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

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

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

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

X_a = mean of Assay Method A with

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

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\ (u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

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

u_{bb} = bottle to bottle homogeneity standard uncertainty

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

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

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

4.1 Thermometer Calibration

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

4.2 Balance Calibration

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

4.3 Glassware Calibration

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

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

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

M	Ag	<	0.004600	M	Eu		0.009037	M	Na		0.086360	M	Se	<	0.005200	M	Zn		0.030125
M	Al		0.014862	O	Fe		0.002410	M	Nb	<	0.000570	O	Si		0.024100	O	Zr	<	0.002600
M	As	<	0.003500	M	Ga	<	0.000570	M	Nd		0.000923	M	Sm		0.000461				
M	Au	<	0.001700	M	Gd	<	0.003500	M	Ni	<	0.005700	M	Sn	<	0.002300				
O	B		0.002209	M	Ge	<	0.005200	M	Os	<	0.001200	M	Sr	<	0.004600				
O	Ba	<	0.002500	M	Hf	<	0.000570	n	P	<		M	Ta	<	0.000570				
O	Be	<	0.001400	M	Hg	<	0.000570	M	Pb		0.005020	M	Tb		0.001044				
M	Bi	<	0.003500	M	Ho		0.009037	M	Pd	<	0.005100	M	Te	<	0.002300				
O	Ca		0.009841	M	In	<	0.002300	M	Pr	<	0.002300	M	Th	<	0.000570				
M	Cd	<	0.000570	M	Ir	<	0.000570	M	Pt	<	0.000570	M	Ti	<	0.003500				
M	Ce	<	0.002300	O	K		0.018677	M	Rb	<	0.000570	M	Tl	<	0.000570				
M	Co	<	0.000570	M	La		0.000461	M	Re	<	0.000570	M	Tm	<	0.003500				
M	Cr	<	0.004000	O	Li	<	0.009300	M	Rh	<	0.008000	M	U	<	0.000570				
M	Cs	<	0.000570	M	Lu		0.000582	M	Ru	<	0.000570	M	V		0.001265				
M	Cu		0.002610	O	Mg		0.001486	n	S	<		M	W	<	0.002300				
M	Dy		0.003815	M	Mn		0.000582	M	Sb		0.005422	s	Y	<					
M	Er		0.003615	M	Mo	<	0.005700	M	Sc	<	0.001200	M	Yb		0.001827				

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

6.0 INTENDED USE

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

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

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

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

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

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

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

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 88.91 +3 6 Y(OH)(H2O)x+2

Chemical Compatibility -Soluble in HCl, H2SO4 and HNO3. Avoid HF, H3PO4 and neutral to basic media. Stable with most metals and inorganic anions forming an insoluble carbonate, oxide, oxalate, and fluoride. Avoid mixing with elements / solutions containing moderate amounts of fluoride.

Stability - 2-100 ppb levels stable for months in 1% HNO3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 2-5% HNO3 / LDPE container.

Y Containing Samples (Preparation and Solution) - Metal (Soluble in acids); Oxide (Dissolve by heating in H2O/ HNO3); Ores (Carbonate fusion in Pt0 followed by HCl dissolution); Organic Matrices (Dry ash and dissolve in 1:1 H2O / HCl or HNO3).

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

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 89 amu	0.8 ppt	N/A	73Ge16O, 178Hf+2
ICP-OES 360.073 nm	0.005 / 0.000036 µg/mL	1	Ce, Th
ICP-OES 371.030 nm	0.004 / 0.00007 µg/mL	1	Ce
ICP-OES 377.433 nm	0.005 / 0.0009 µg/mL	1	Ta, Th

8.0 HAZARDOUS INFORMATION

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

9.0 HOMOGENEITY

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

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

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

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

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

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

February 20, 2024

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

11.2 Lot Expiration Date

- February 20, 2029

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

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

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

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

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Prepared By:

Uyen Truong
Custom Processing Supervisor

Certificate Approved By:

Muzzammil Khan
Stock Laboratory Supervisor

Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

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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.

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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

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

R: 01/03/24 M6033

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

855

CERTIFIED WEIGHT REPORT:

Part Number:	**58113**		**Lot #**		
Lot Number:	**011623**	**Solvent:**	20510011	Nitric Acid	
Description:	**Aluminum (Al)**				
		2%	40.0 (mL)	Nitric Acid	
Expiration Date:	011626				
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		

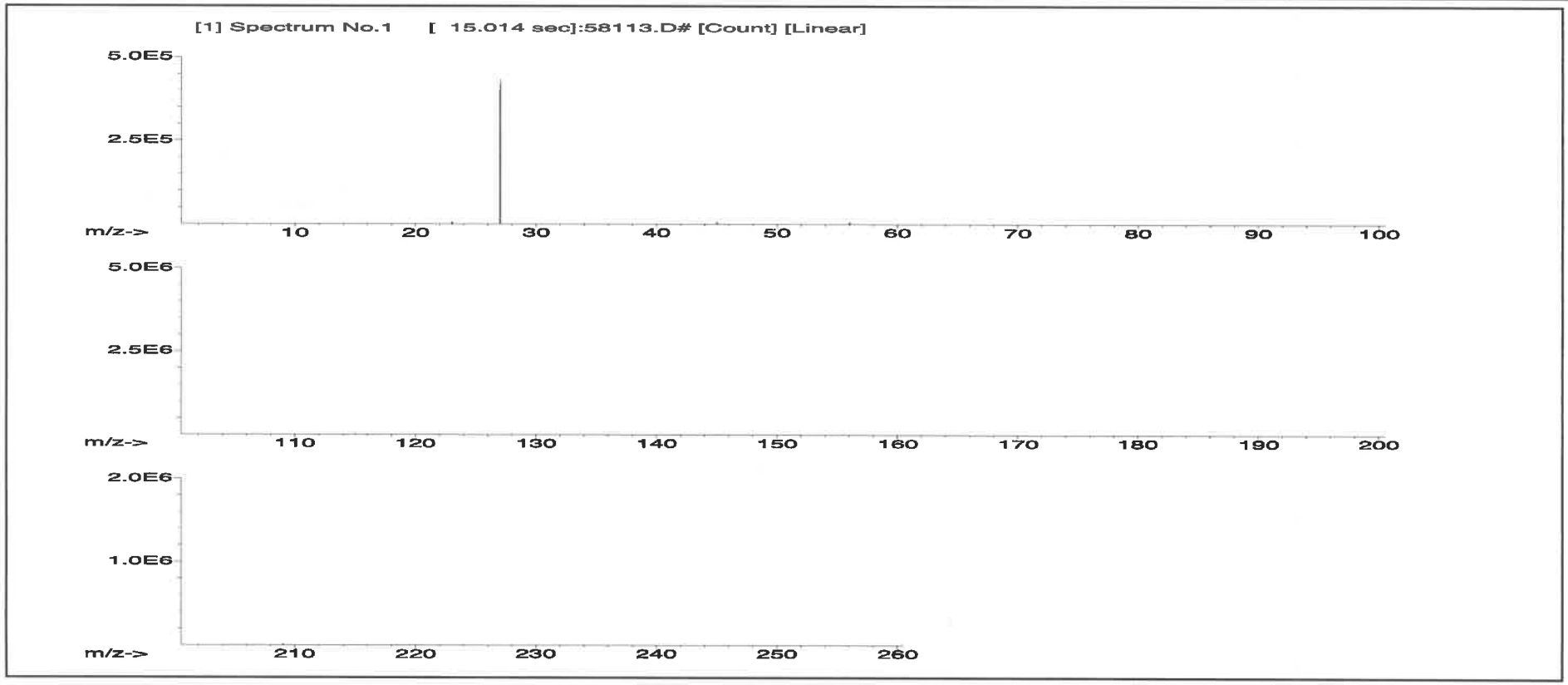
Giovanni Esposito

Formulated By:	Giovanni Esposito	011623

Pedro Rentas

Reviewed By:	Pedro L. Rentas	011623

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	ALM112021A1	10000	99.999	0.10	7.30	273.9779	274.0078	**10001.1**	**20.0**	7784-27-2	2 mg/m3	orl-rat 3671 mg/kg	3101a



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

avantor™ | J.T.Baker®

M6094
M6095.

metdig
10/21/24.

Material No.: 9530-33
Batch No.: 24D1562005
Manufactured Date: 2024-03-18
Retest Date: 2029-03-17
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
ACS – Assay (as HCl) (by acid-base titrn)	36.5 – 38.0 %	37.6 %
ACS – Color (APHA)	≤ 10	5
ACS – Residue after Ignition	≤ 3 ppm	< 1 ppm
ACS – Specific Gravity at 60°/60°F	1.185 – 1.192	1.192
ACS – Bromide (Br)	≤ 0.005 %	< 0.005 %
ACS – Extractable Organic Substances	≤ 5 ppm	< 1 ppm
ACS – Free Chlorine (as Cl_2)	≤ 0.5 ppm	< 0.5 ppm
Phosphate (PO_4)	≤ 0.05 ppm	0.03 ppm
Sulfate (SO_4)	≤ 0.5 ppm	< 0.3 ppm
Sulfite (SO_3)	≤ 0.8 ppm	0.3 ppm
Ammonium (NH_4)	≤ 3 ppm	< 1 ppm
Trace Impurities – Arsenic (As)	≤ 0.010 ppm	< 0.003 ppm
Trace Impurities – Aluminum (Al)	≤ 10.0 ppb	< 5.0 ppb
Arsenic and Antimony (as As)	≤ 5.0 ppb	< 3.0 ppb
Trace Impurities – Barium (Ba)	≤ 1.0 ppb	< 1.0 ppb
Trace Impurities – Beryllium (Be)	≤ 1.0 ppb	< 1.0 ppb
Trace Impurities – Bismuth (Bi)	≤ 10.0 ppb	< 10.0 ppb
Trace Impurities – Boron (B)	≤ 20.0 ppb	2.2 ppb
Trace Impurities – Cadmium (Cd)	≤ 1.0 ppb	< 1.0 ppb
Trace Impurities – Calcium (Ca)	≤ 50.0 ppb	31.0 ppb
Trace Impurities – Chromium (Cr)	≤ 1.0 ppb	0.5 ppb
Trace Impurities – Cobalt (Co)	≤ 1.0 ppb	0.2 ppb
Trace Impurities – Copper (Cu)	≤ 1.0 ppb	< 0.1 ppb
Trace Impurities – Gallium (Ga)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities – Germanium (Ge)	≤ 3.0 ppb	< 2.0 ppb
Trace Impurities – Gold (Au)	≤ 4.0 ppb	< 0.2 ppb
Heavy Metals (as Pb)	≤ 100 ppb	< 50 ppb
Trace Impurities – Iron (Fe)	≤ 15 ppb	3 ppb

>>> Continued on page 2 >>>

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

avantor™ | J.T.Baker®

Material No.: 9530-33
Batch No.: 24D1562005

Test	Specification	Result
Trace Impurities - Lead (Pb)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Lithium (Li)	≤ 1.0 ppb	< 0.1 ppb
Trace Impurities - Magnesium (Mg)	≤ 10.0 ppb	2.2 ppb
Trace Impurities - Manganese (Mn)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Mercury (Hg)	≤ 0.5 ppb	< 0.1 ppb
Trace Impurities - Molybdenum (Mo)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities - Nickel (Ni)	≤ 4.0 ppb	0.2 ppb
Trace Impurities - Niobium (Nb)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Potassium (K)	≤ 9.0 ppb	< 1.0 ppb
Trace Impurities - Selenium (Se), For Information Only		< 1.0 ppb
Trace Impurities - Silicon (Si)	≤ 100.0 ppb	< 10.0 ppb
Trace Impurities - Silver (Ag)	≤ 1.0 ppb	< 0.3 ppb
Trace Impurities - Sodium (Na)	≤ 100.0 ppb	2.0 ppb
Trace Impurities - Strontium (Sr)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Tantalum (Ta)	≤ 1.0 ppb	< 0.9 ppb
Trace Impurities - Thallium (Tl)	≤ 5.0 ppb	< 2.0 ppb
Trace Impurities - Tin (Sn)	≤ 5.0 ppb	< 0.4 ppb
Trace Impurities - Titanium (Ti)	≤ 1.0 ppb	0.2 ppb
Trace Impurities - Vanadium (V)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Zinc (Zn)	≤ 5.0 ppb	< 0.2 ppb
Trace Impurities - Zirconium (Zr)	≤ 1.0 ppb	< 0.1 ppb

>>> Continued on page 3 >>>

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

avantor™ | J.T.Baker®

Material No.: 9530-33
Batch No.: 24D1562005

Test	Specification	Result

For Laboratory,Research,or Manufacturing Use
Product Information (not specifications):
Appearance (clear, fuming liquid)
Meets ACS Specifications
Storage Condition: Store below 25 °C.

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

Jamie Croak
Director Quality Operations, Bioscience Production

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

M6109
M6110
M6111

Received date 9/29/24 Met dig.

avantor™ | J.T.Baker®

Material No.: 9530-33
Batch No.: 22F0762009
Manufactured Date: 2022-05-10
Retest Date: 2027-05-09
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
ACS – Assay (as HCl) (by acid-base titrn)	36.5 – 38.0 %	37.6 %
ACS – Color (APHA)	≤ 10	5
ACS – Residue after Ignition	≤ 3 ppm	< 1 ppm
ACS – Specific Gravity at 60°/60°F	1.185 – 1.192	1.190
ACS – Bromide (Br)	≤ 0.005 %	< 0.005 %
ACS – Extractable Organic Substances	≤ 5 ppm	< 1 ppm
ACS – Free Chlorine (as Cl_2)	≤ 0.5 ppm	< 0.5 ppm
Phosphate (PO_4)	≤ 0.05 ppm	< 0.03 ppm
Sulfate (SO_4)	≤ 0.5 ppm	< 0.3 ppm
Sulfite (SO_3)	≤ 0.8 ppm	0.3 ppm
Ammonium (NH_4)	≤ 3 ppm	< 1 ppm
Trace Impurities – Arsenic (As)	≤ 0.010 ppm	< 0.003 ppm
Trace Impurities – Aluminum (Al)	≤ 10.0 ppb	0.8 ppb
Arsenic and Antimony (as As)	≤ 5.0 ppb	< 3.0 ppb
Trace Impurities – Barium (Ba)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities – Beryllium (Be)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities – Bismuth (Bi)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Boron (B)	≤ 20.0 ppb	< 5.0 ppb
Trace Impurities – Cadmium (Cd)	≤ 1.0 ppb	< 0.3 ppb
Trace Impurities – Calcium (Ca)	≤ 50.0 ppb	14.9 ppb
Trace Impurities – Chromium (Cr)	≤ 1.0 ppb	< 0.4 ppb
Trace Impurities – Cobalt (Co)	≤ 1.0 ppb	< 0.3 ppb
Trace Impurities – Copper (Cu)	≤ 1.0 ppb	< 0.1 ppb
Trace Impurities – Gallium (Ga)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities – Germanium (Ge)	≤ 3.0 ppb	< 2.0 ppb
Trace Impurities – Gold (Au)	≤ 4.0 ppb	0.2 ppb
Heavy Metals (as Pb)	≤ 100 ppb	< 50 ppb
Trace Impurities – Iron (Fe)	≤ 15 ppb	6 ppb

>>> Continued on page 2 >>>

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

avantor™ | J.T.Baker®

Material No.: 9530-33
Batch No.: 22F0762009

Test	Specification	Result
Trace Impurities - Lead (Pb)	≤ 1.0 ppb	< 0.5 ppb
Trace Impurities - Lithium (Li)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Magnesium (Mg)	≤ 10.0 ppb	0.8 ppb
Trace Impurities - Manganese (Mn)	≤ 1.0 ppb	< 0.4 ppb
Trace Impurities - Mercury (Hg)	≤ 0.5 ppb	0.1 ppb
Trace Impurities - Molybdenum (Mo)	≤ 10.0 ppb	< 3.0 ppb
Trace Impurities - Nickel (Ni)	≤ 4.0 ppb	< 0.3 ppb
Trace Impurities - Niobium (Nb)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Potassium (K)	≤ 9.0 ppb	< 2.0 ppb
Trace Impurities - Selenium (Se), For Information Only		< 1.0 ppb
Trace Impurities - Silicon (Si)	≤ 100.0 ppb	1.0 ppb
Trace Impurities - Silver (Ag)	≤ 1.0 ppb	< 0.3 ppb
Trace Impurities - Sodium (Na)	≤ 100.0 ppb	0.7 ppb
Trace Impurities - Strontium (Sr)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Tantalum (Ta)	≤ 1.0 ppb	< 0.9 ppb
Trace Impurities - Thallium (Tl)	≤ 5.0 ppb	< 2.0 ppb
Trace Impurities - Tin (Sn)	≤ 5.0 ppb	< 0.8 ppb
Trace Impurities - Titanium (Ti)	≤ 1.0 ppb	0.2 ppb
Trace Impurities - Vanadium (V)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Zinc (Zn)	≤ 5.0 ppb	0.8 ppb
Trace Impurities - Zirconium (Zr)	≤ 1.0 ppb	< 0.1 ppb

>>> Continued on page 3 >>>

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

avantor™ | J.T.Baker®

Material No.: 9530-33
Batch No.: 22F0762009

Test	Specification	Result

For Laboratory,Research,or Manufacturing Use
Product Information (not specifications):
Appearance (clear, fuming liquid)
Meets ACS Specifications
Storage Condition: Store below 25 °C.

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

James T Ethier

Jamie Ethier
Vice President Global Quality

Nitric Acid 69%
CMOS

M6112
M6113
M6114
M6115
M6116
M6117

Receive:
9/29/24
Met dig

avantor™ | J.T.Baker®

Material No.: 9606-03
Batch No.: 24B1362001
Manufactured Date: 2024-01-25
Retest Date: 2029-01-23
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay (HNO_3)	69.0 - 70.0 %	69.6 %
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	< 0.2 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	< 50 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.: 24B1362001

Test	Specification	Result
Trace Impurities – Niobium (Nb)	≤ 50.0 ppb	< 1.0 ppb
Trace Impurities – Potassium (K)	≤ 50 ppb	< 10 ppb
Trace Impurities – Silicon (Si)	≤ 50 ppb	< 10 ppb
Trace Impurities – Silver (Ag)	≤ 20.0 ppb	< 1.0 ppb
Trace Impurities – Sodium (Na)	≤ 150.0 ppb	< 5.0 ppb
Trace Impurities – Strontium (Sr)	≤ 30.0 ppb	< 1.0 ppb
Trace Impurities – Tantalum (Ta)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities – Thallium (Tl)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities – Tin (Sn)	≤ 20.0 ppb	< 10.0 ppb
Trace Impurities – Titanium (Ti)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Vanadium (V)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Zinc (Zn)	≤ 20.0 ppb	< 1.0 ppb
Trace Impurities – Zirconium (Zr)	≤ 10.0 ppb	< 1.0 ppb
Particle Count – 0.5 µm and greater	≤ 60 par/ml	3 par/ml
Particle Count – 1.0 µm and greater	≤ 10 par/ml	1 par/ml

>>> Continued on page 3 >>>

Nitric Acid 69%
CMOS

avantor™ | J.T.Baker®

Material No.: 9606-03
Batch No.: 24B1362001

Test	Specification	Result

For Microelectronic Use

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

Ken Koehnlein
Sr. Manager, Quality Assurance

Nitric Acid 69%
CMOS

M6112
M6113
M6114
M6115
M6116
M6117

Receive:
9/29/24
Met dig

avantor™ | J.T.Baker®

Material No.: 9606-03
Batch No.: 24B1362001
Manufactured Date: 2024-01-25
Retest Date: 2029-01-23
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay (HNO_3)	69.0 - 70.0 %	69.6 %
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	< 0.2 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	< 50 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.: 24B1362001

Test	Specification	Result
Trace Impurities – Niobium (Nb)	≤ 50.0 ppb	< 1.0 ppb
Trace Impurities – Potassium (K)	≤ 50 ppb	< 10 ppb
Trace Impurities – Silicon (Si)	≤ 50 ppb	< 10 ppb
Trace Impurities – Silver (Ag)	≤ 20.0 ppb	< 1.0 ppb
Trace Impurities – Sodium (Na)	≤ 150.0 ppb	< 5.0 ppb
Trace Impurities – Strontium (Sr)	≤ 30.0 ppb	< 1.0 ppb
Trace Impurities – Tantalum (Ta)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities – Thallium (Tl)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities – Tin (Sn)	≤ 20.0 ppb	< 10.0 ppb
Trace Impurities – Titanium (Ti)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Vanadium (V)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Zinc (Zn)	≤ 20.0 ppb	< 1.0 ppb
Trace Impurities – Zirconium (Zr)	≤ 10.0 ppb	< 1.0 ppb
Particle Count – 0.5 µm and greater	≤ 60 par/ml	3 par/ml
Particle Count – 1.0 µm and greater	≤ 10 par/ml	1 par/ml

>>> Continued on page 3 >>>

Nitric Acid 69%
CMOS

avantor™ | J.T.Baker®

Material No.: 9606-03
Batch No.: 24B1362001

Test	Specification	Result

For Microelectronic Use

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

Ken Koehnlein
Sr. Manager, Quality Assurance

Nitric Acid 69%
CMOS

M6112
M6113
M6114
M6115
M6116
M6117

Receive:
9/29/24
Met dig

avantor™ | J.T.Baker®

Material No.: 9606-03
Batch No.: 24B1362001
Manufactured Date: 2024-01-25
Retest Date: 2029-01-23
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay (HNO_3)	69.0 - 70.0 %	69.6 %
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	< 0.2 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	< 50 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.: 24B1362001

Test	Specification	Result
Trace Impurities – Niobium (Nb)	≤ 50.0 ppb	< 1.0 ppb
Trace Impurities – Potassium (K)	≤ 50 ppb	< 10 ppb
Trace Impurities – Silicon (Si)	≤ 50 ppb	< 10 ppb
Trace Impurities – Silver (Ag)	≤ 20.0 ppb	< 1.0 ppb
Trace Impurities – Sodium (Na)	≤ 150.0 ppb	< 5.0 ppb
Trace Impurities – Strontium (Sr)	≤ 30.0 ppb	< 1.0 ppb
Trace Impurities – Tantalum (Ta)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities – Thallium (Tl)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities – Tin (Sn)	≤ 20.0 ppb	< 10.0 ppb
Trace Impurities – Titanium (Ti)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Vanadium (V)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Zinc (Zn)	≤ 20.0 ppb	< 1.0 ppb
Trace Impurities – Zirconium (Zr)	≤ 10.0 ppb	< 1.0 ppb
Particle Count – 0.5 µm and greater	≤ 60 par/ml	3 par/ml
Particle Count – 1.0 µm and greater	≤ 10 par/ml	1 par/ml

>>> Continued on page 3 >>>

Nitric Acid 69%
CMOS

avantor™ | J.T.Baker®

Material No.: 9606-03
Batch No.: 24B1362001

Test	Specification	Result

For Microelectronic Use

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

Ken Koehnlein
Sr. Manager, Quality Assurance

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

avantor™ | J.T.Baker®

Recieve → 10/9/24
Met dig

M 6118

Material No.: 9530-33
Batch No.: 22E1662006
Manufactured Date: 2022-04-11
Retest Date: 2027-04-10
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
ACS - Assay (as HCl) (by acid-base titrn)	36.5 - 38.0 %	37.6 %
ACS - Color (APHA)	≤ 10	5
ACS - Residue after Ignition	≤ 3 ppm	< 1 ppm
ACS - Specific Gravity at 60°/60°F	1.185 - 1.192	1.190
ACS - Bromide (Br)	≤ 0.005 %	< 0.005 %
ACS - Extractable Organic Substances	≤ 5 ppm	< 1 ppm
ACS - Free Chlorine (as Cl_2)	≤ 0.5 ppm	< 0.5 ppm
Phosphate (PO_4)	≤ 0.05 ppm	< 0.03 ppm
Sulfate (SO_4)	≤ 0.5 ppm	< 0.3 ppm
Sulfite (SO_3)	≤ 0.8 ppm	0.3 ppm
Ammonium (NH_4)	≤ 3 ppm	< 1 ppm
Trace Impurities - Arsenic (As)	≤ 0.010 ppm	< 0.003 ppm
Trace Impurities - Aluminum (Al)	≤ 10.0 ppb	< 0.2 ppb
Arsenic and Antimony (as As)	≤ 5.0 ppb	< 3.0 ppb
Trace Impurities - Barium (Ba)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Beryllium (Be)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Bismuth (Bi)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Boron (B)	≤ 20.0 ppb	< 5.0 ppb
Trace Impurities - Cadmium (Cd)	≤ 1.0 ppb	< 0.3 ppb
Trace Impurities - Calcium (Ca)	≤ 50.0 ppb	37.0 ppb
Trace Impurities - Chromium (Cr)	≤ 1.0 ppb	< 0.4 ppb
Trace Impurities - Cobalt (Co)	≤ 1.0 ppb	< 0.3 ppb
Trace Impurities - Copper (Cu)	≤ 1.0 ppb	< 0.1 ppb
Trace Impurities - Gallium (Ga)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Germanium (Ge)	≤ 3.0 ppb	< 2.0 ppb
Trace Impurities - Gold (Au)	≤ 4.0 ppb	0.2 ppb
Heavy Metals (as Pb)	≤ 100 ppb	< 50 ppb
Trace Impurities - Iron (Fe)	≤ 15 ppb	1 ppb

>>> Continued on page 2 >>>

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

avantor™ | J.T.Baker®

Material No.: 9530-33
Batch No.: 22E1662006

Test	Specification	Result
Trace Impurities - Lead (Pb)	≤ 1.0 ppb	< 0.5 ppb
Trace Impurities - Lithium (Li)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Magnesium (Mg)	≤ 10.0 ppb	1.0 ppb
Trace Impurities - Manganese (Mn)	≤ 1.0 ppb	< 0.4 ppb
Trace Impurities - Mercury (Hg)	≤ 0.5 ppb	0.1 ppb
Trace Impurities - Molybdenum (Mo)	≤ 10.0 ppb	< 3.0 ppb
Trace Impurities - Nickel (Ni)	≤ 4.0 ppb	< 0.3 ppb
Trace Impurities - Niobium (Nb)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Potassium (K)	≤ 9.0 ppb	< 2.0 ppb
Trace Impurities - Selenium (Se), For Information Only		1.0 ppb
Trace Impurities - Silicon (Si)	≤ 100.0 ppb	< 0.4 ppb
Trace Impurities - Silver (Ag)	≤ 1.0 ppb	< 0.3 ppb
Trace Impurities - Sodium (Na)	≤ 100.0 ppb	1.9 ppb
Trace Impurities - Strontium (Sr)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Tantalum (Ta)	≤ 1.0 ppb	< 0.9 ppb
Trace Impurities - Thallium (Tl)	≤ 5.0 ppb	< 2.0 ppb
Trace Impurities - Tin (Sn)	≤ 5.0 ppb	< 0.8 ppb
Trace Impurities - Titanium (Ti)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Vanadium (V)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Zinc (Zn)	≤ 5.0 ppb	< 0.3 ppb
Trace Impurities - Zirconium (Zr)	≤ 1.0 ppb	< 0.1 ppb

>>> Continued on page 3 >>>

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

avantor™ | J.T.Baker®

Material No.: 9530-33
Batch No.: 22E1662006

Test	Specification	Result

For Laboratory,Research,or Manufacturing Use
Product Information (not specifications):
Appearance (clear, fuming liquid)
Meets ACS Specifications
Storage Condition: Store below 25 °C.

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

James T Ethier

Jamie Ethier
Vice President Global Quality

Nitric Acid 69%
CMOS

avantor™ | J.T.Baker®

R ->10/13/24
Metal g

M 6120

Material No.: 9606-03
Batch No.: 2310662003
Manufactured Date: 2023-08-21
Retest Date: 2028-08-19
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay (HNO_3)	69.0 - 70.0 %	69.5 %
Appearance	Passes Test	Passes Test
Color (APHA)	≤ 10	10
Residue after Ignition	≤ 2 ppm	< 2 ppm
Chloride (Cl)	≤ 0.08 ppm	< 0.08 ppm
Phosphate (PO_4)	≤ 0.10 ppm	< 0.10 ppm
Sulfate (SO_4)	≤ 0.2 ppm	0.2 ppm
Trace Impurities - Aluminum (Al)	≤ 40.0 ppb	< 40.0 ppb
Arsenic and Antimony (as As)	≤ 5.0 ppb	< 5.0 ppb
Trace Impurities - Barium (Ba)	≤ 10.0 ppb	< 10.0 ppb
Trace Impurities - Beryllium (Be)	≤ 10.0 ppb	< 10.0 ppb
Trace Impurities - Bismuth (Bi)	≤ 20.0 ppb	< 20.0 ppb
Trace Impurities - Boron (B)	≤ 10.0 ppb	< 10.0 ppb
Trace Impurities - Cadmium (Cd)	≤ 50 ppb	< 50 ppb
Trace Impurities - Calcium (Ca)	≤ 50.0 ppb	< 50.0 ppb
Trace Impurities - Chromium (Cr)	≤ 30.0 ppb	30.0 ppb
Trace Impurities - Cobalt (Co)	≤ 10.0 ppb	< 10.0 ppb
Trace Impurities - Copper (Cu)	≤ 10.0 ppb	< 10.0 ppb
Trace Impurities - Gallium (Ga)	≤ 10.0 ppb	< 10.0 ppb
Trace Impurities - Germanium (Ge)	≤ 20 ppb	< 20 ppb
Trace Impurities - Gold (Au)	≤ 20 ppb	< 20 ppb
Heavy Metals (as Pb)	≤ 100 ppb	< 100 ppb
Trace Impurities - Iron (Fe)	≤ 40.0 ppb	< 40.0 ppb
Trace Impurities - Lead (Pb)	≤ 20.0 ppb	< 20.0 ppb
Trace Impurities - Lithium (Li)	≤ 10.0 ppb	< 10.0 ppb
Trace Impurities - Magnesium (Mg)	≤ 20 ppb	< 20 ppb
Trace Impurities - Manganese (Mn)	≤ 10.0 ppb	< 10.0 ppb
Trace Impurities - Nickel (Ni)	≤ 20.0 ppb	< 20.0 ppb

>>> Continued on page 2 >>>

Nitric Acid 69%
CMOS

avantor™ | J.T.Baker®

Material No.: 9606-03
Batch No.: 2310662003

Test	Specification	Result
Trace Impurities – Niobium (Nb)	≤ 50.0 ppb	< 50.0 ppb
Trace Impurities – Potassium (K)	≤ 50 ppb	< 50 ppb
Trace Impurities – Silicon (Si)	≤ 50 ppb	< 50 ppb
Trace Impurities – Silver (Ag)	≤ 20.0 ppb	< 20.0 ppb
Trace Impurities – Sodium (Na)	≤ 150.0 ppb	< 150.0 ppb
Trace Impurities – Strontium (Sr)	≤ 30.0 ppb	< 30.0 ppb
Trace Impurities – Tantalum (Ta)	≤ 10.0 ppb	< 10.0 ppb
Trace Impurities – Thallium (Tl)	≤ 10.0 ppb	< 10.0 ppb
Trace Impurities – Tin (Sn)	≤ 20.0 ppb	< 20.0 ppb
Trace Impurities – Titanium (Ti)	≤ 10.0 ppb	< 10.0 ppb
Trace Impurities – Vanadium (V)	≤ 10.0 ppb	< 10.0 ppb
Trace Impurities – Zinc (Zn)	≤ 20.0 ppb	< 20.0 ppb
Trace Impurities – Zirconium (Zr)	≤ 10.0 ppb	< 10.0 ppb
Particle Count – 0.5 µm and greater	≤ 60 par/ml	60 par/ml
Particle Count – 1.0 µm and greater	≤ 10 par/ml	10 par/ml

>>> Continued on page 3 >>>

Nitric Acid 69%
CMOS

avantor™ | J.T.Baker®

Material No.: 9606-03
Batch No.: 2310662003

Test	Specification	Result

For Microelectronic Use

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

Ken Koehnlein
Sr. Manager, Quality Assurance

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

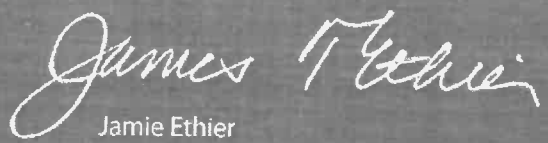
877

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

878

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

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R: 01/03/24 M5806, M5807

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881

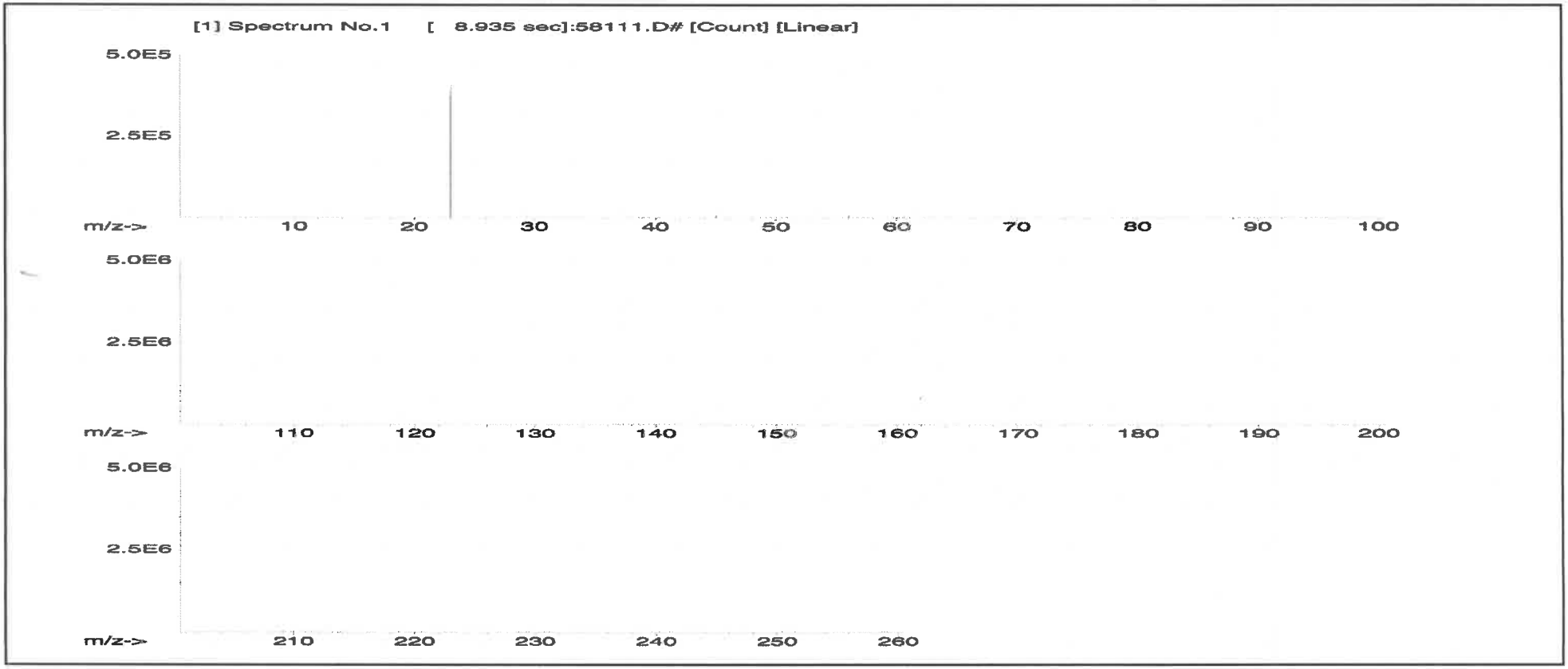
CERTIFIED WEIGHT REPORT:

			Lot #	
Part Number:	**58111**	**Solvent:**	24002546	Nitric Acid
Lot Number:	**122223**			
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



882

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.
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* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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R: 01/03/24 M5802, M5803

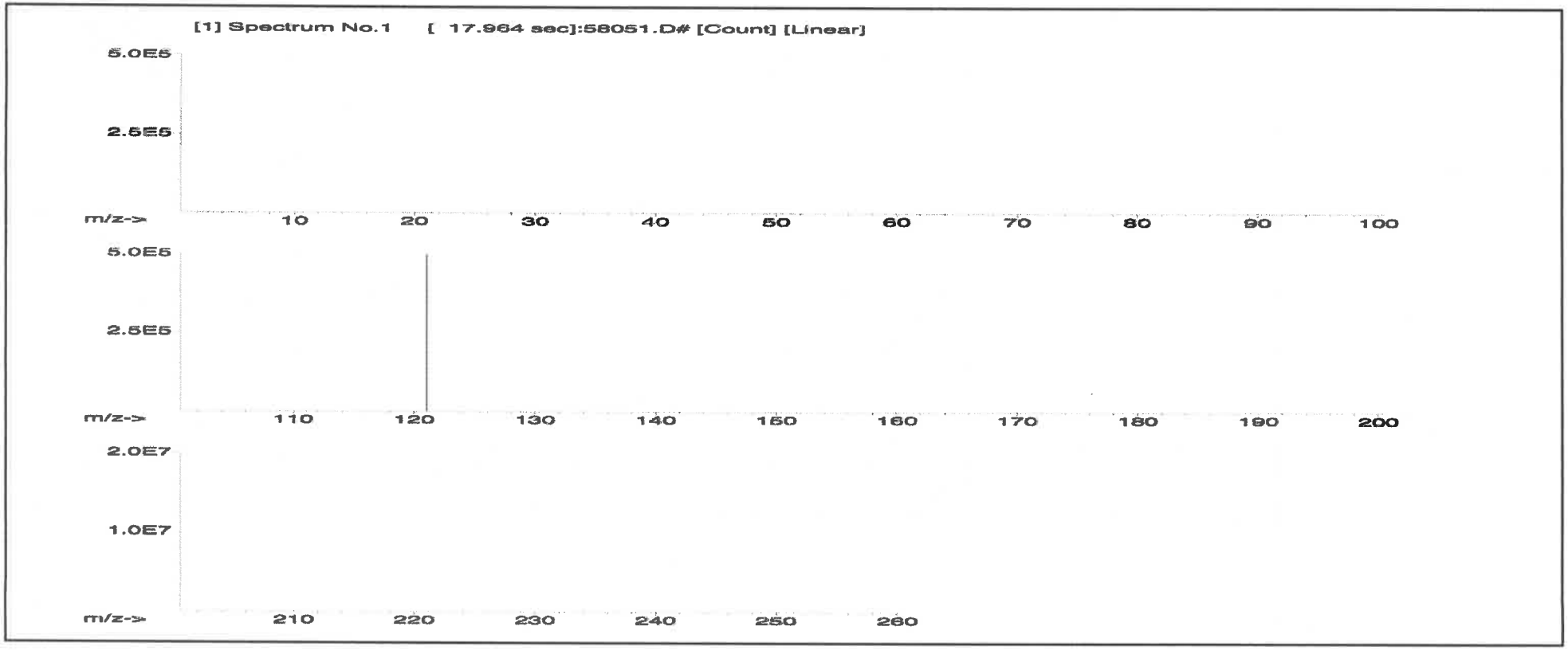
883

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



884

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.
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M6030

R: 8/5/24

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885

CERTIFIED WEIGHT REPORT:

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

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

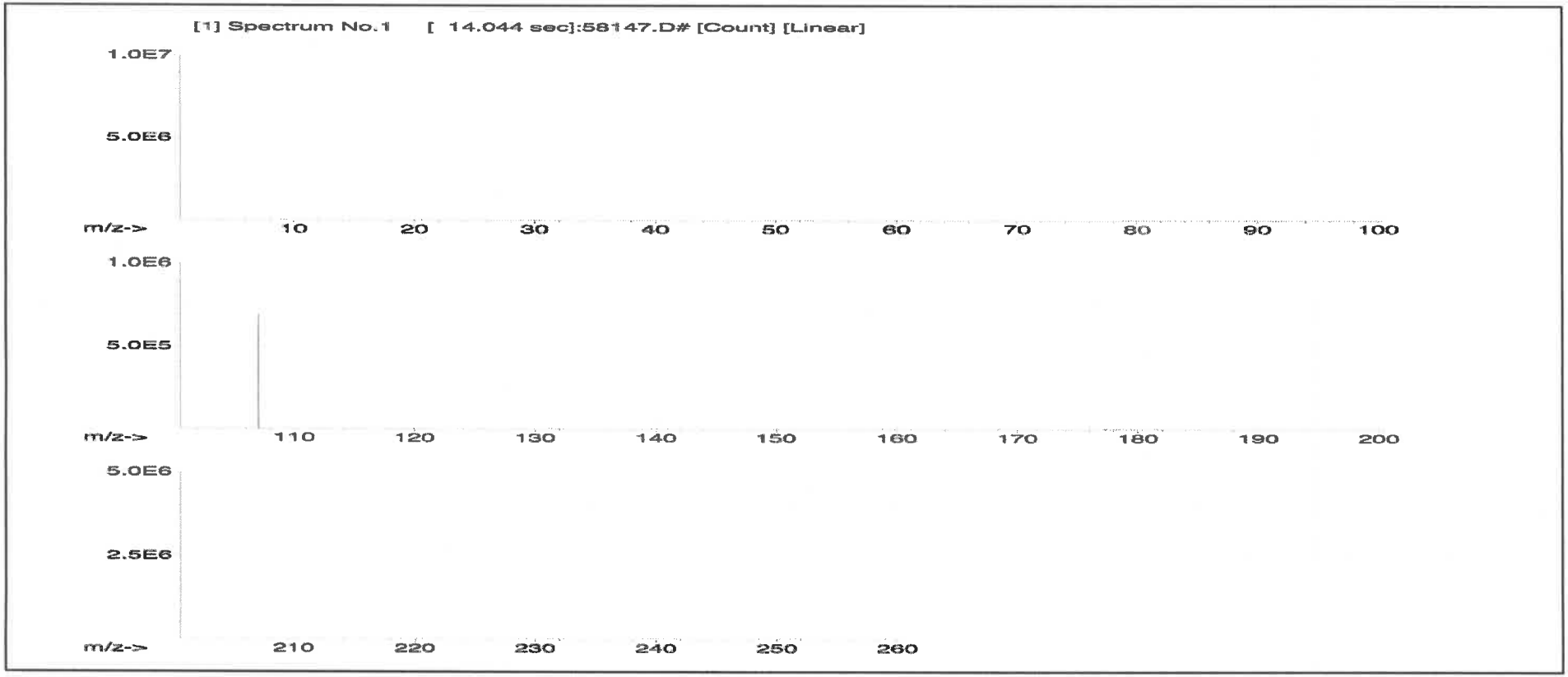
Weight shown below was diluted to (mL): 4000.30 0.058 Flask Uncertainty

	Lot #		
Solvent:	24002546	Nitric Acid	
2%	80.0 (mL)	Nitric Acid	

5E-05 Balance 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



886

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

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

(T)= Target analyte

Physical Characterization:

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

Certified by:

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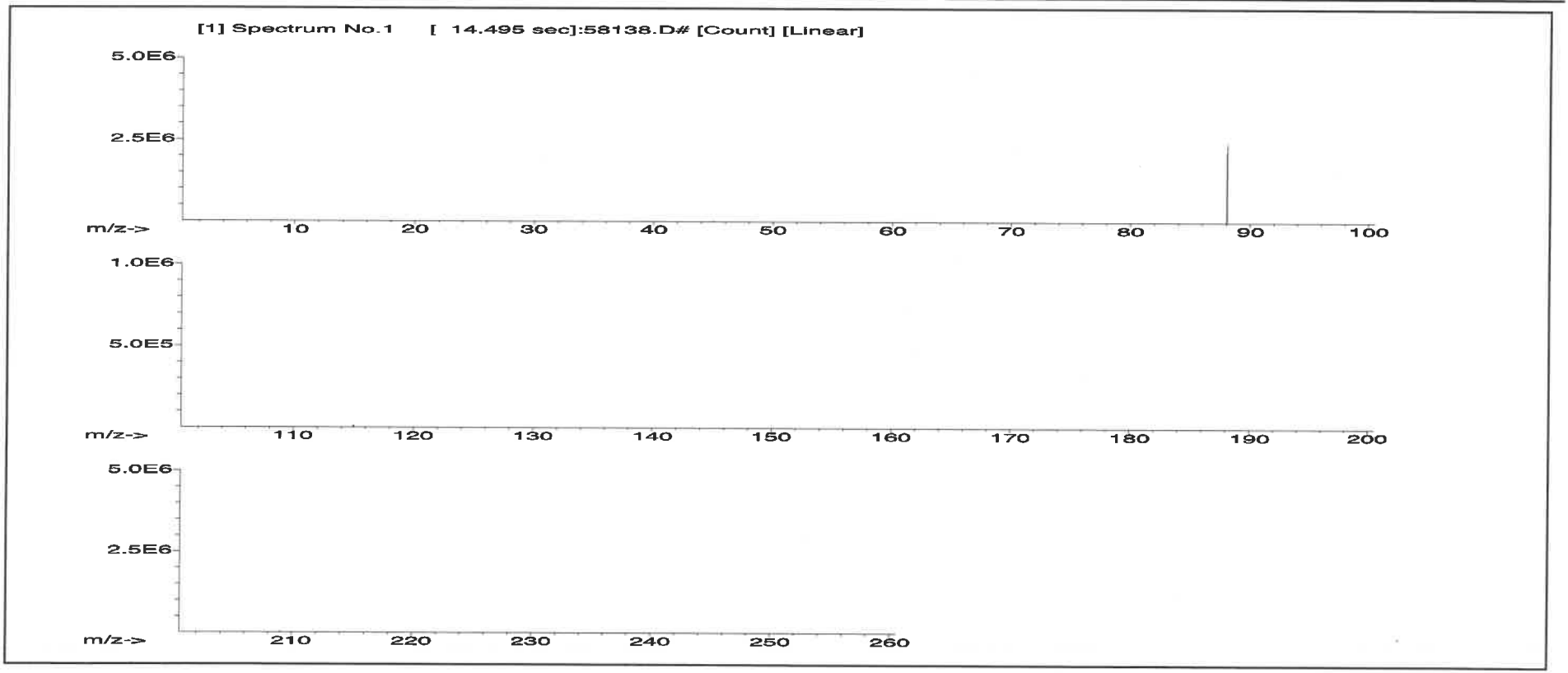
887

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



888

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.

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R: 03/16/23 M5473, M5474, M5475, M5476

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CERTIFIED WEIGHT REPORT:

Part Number: 56138
Lot Number: 082922
Description: Strontium (Sr)

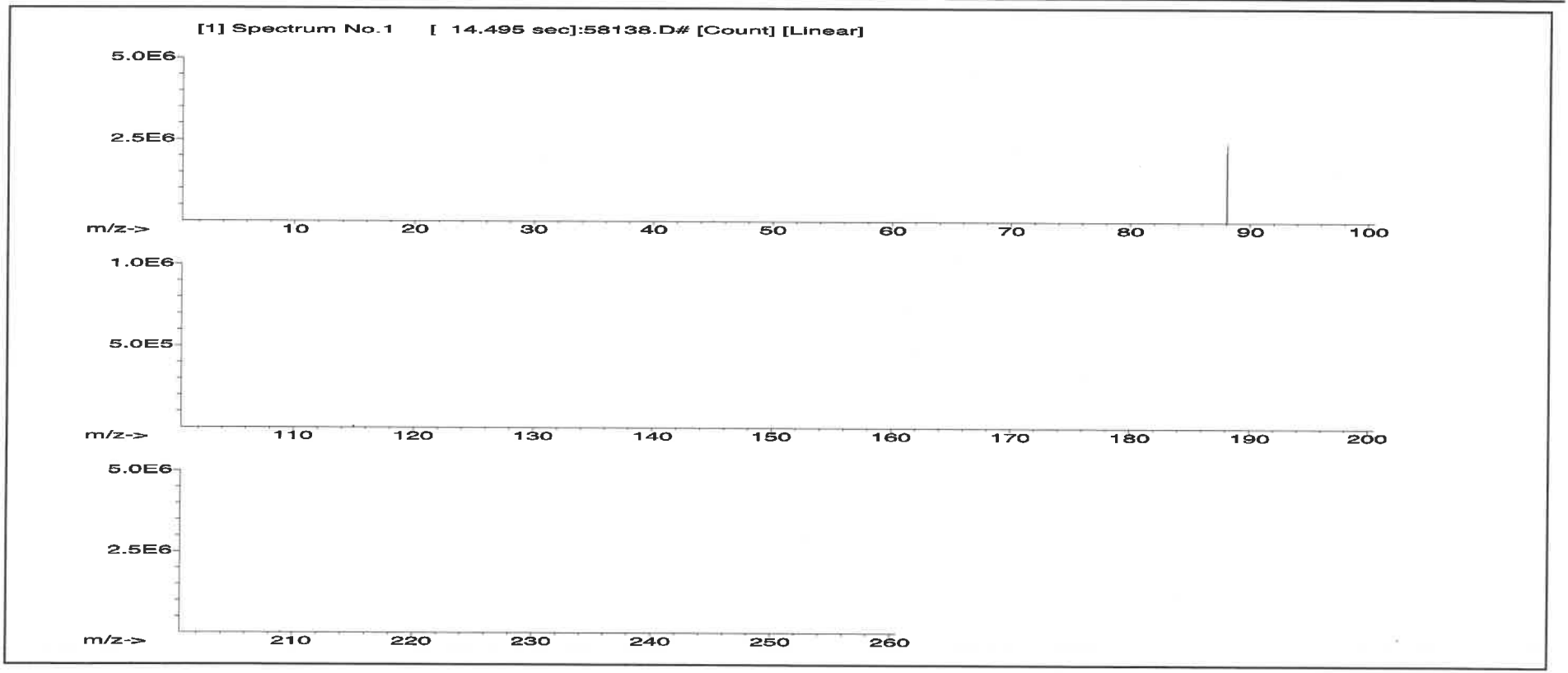
Expiration Date: 082925
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 1000.12

	Lot #		
Solvent:	20510011	Nitric Acid	
2%	20.0 (mL)	Nitric Acid	

5E-05 Balance Uncertainty
0.058 Flask Uncertainty

Formulated By:	Lawrence Barry	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



890

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:

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R ! 8/5/24

M6023

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891

CERTIFIED WEIGHT REPORT:

Part Number:	**57081**		**Lot #**		
Lot Number:	**062724**	**Solvent:**	24002546	Nitric Acid	
Description:	**Thallium (Tl)**				
		2%	40.0 (mL)	Nitric Acid	
Expiration Date:	062727				
Recommended Storage:	Ambient (20 °C)				
Nominal Concentration (µg/mL):	**1000**				
NIST Test Number:	6UTB	5E-05	Balance Uncertainty		
Weight shown below was diluted to (mL):	2000.1	0.10	Flask Uncertainty		

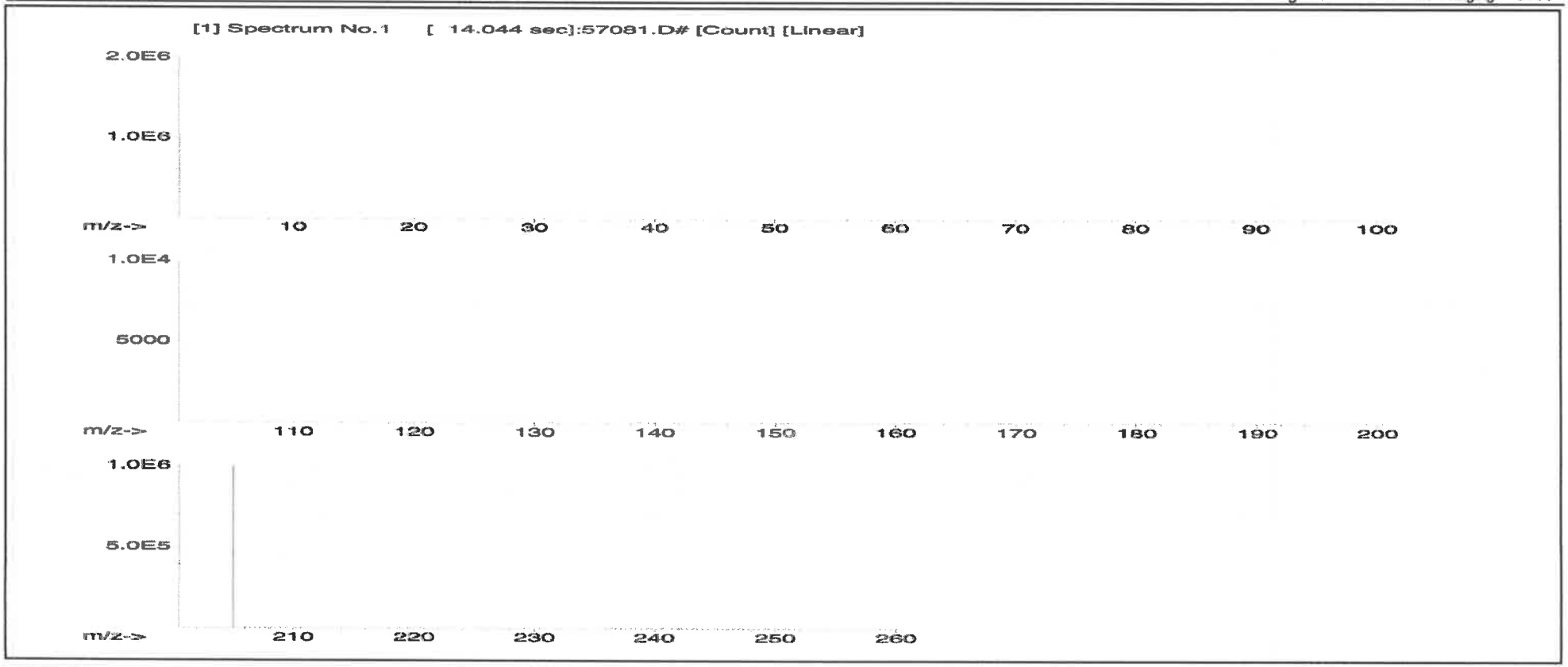
Aleah O'Brady

Formulated By:	Aleah O'Brady	062724

Pedro Rentas

Reviewed By:	Pedro L. Rentas	062724

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Thallium nitrate (Tl)	IN037	BCCF4399	1000	99.999	0.10	77.0	2.5975	2.5977	**1000.1**	**2.0**	10102-45-1	0.1 mg/m3	orl-mus 15mg/kg	3158



892

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

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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	

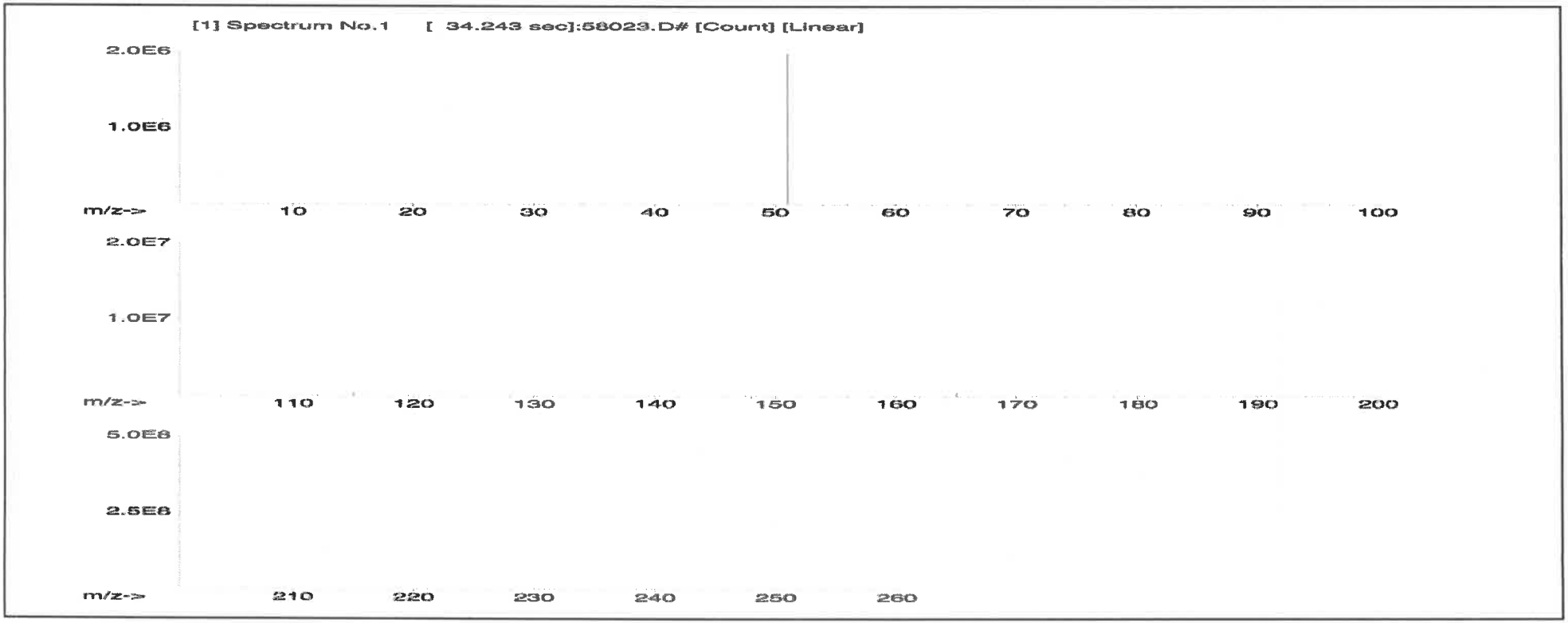
Aleah O'Brady

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



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

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	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.
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* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

Alliance TECHNICAL GROUP

Soil/Sludge Metals Preparation Sheet

PB165139

SOP ID : M3050B-Digestion-20, MSFAM01.1-Trace Metals-2

SDG No : MBHHJ1

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: 11/20/2024 **Time :** 14:00 **Temp :** 96 °C

End Digest Date: 11/20/2024 **Time :** 16:10 **Temp :** 96 °C

Digestion tube ID: M6054

Block thermometer ID: MET-DIG. #2

Dig Technician Signature: JSP

Supervisor Signature:

Temp : 1. 96°C 2. N/A

Standared Name	MLS USED	STD REF. # FROM LOG
LCSS	1.00	MP83141
Spike Sol 6	1.00	MP83147
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	MP83122
Conc. HNO3	5.00	M6120
30% H2O2	3.00	M5634
Conc. HCL	10.00	M6118
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 #2 CELL #34 : 96 C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
11/20/24 16:20	JSP (Met Dig.	metals lab
	Preparation Group	Analysis Group

Alliance TECHNICAL GROUP

Soil/Sludge Metals Preparation Sheet

PB165139

Lab Sample ID	Client Sample ID	pH	Initial Weight (g)	Final Vol (ml)	Color Before	Color After	Texture	Artifact	Comment	Prep Pos
P4912-01	MBHHJ1	N/A	1.45	100	Brown	Yellow	Medium	N/A	N/A	1
P4912-02	MBHHJ2	N/A	1.49	100	Brown	Yellow	Medium	N/A	N/A	2
P4912-03	MBHHJ3	N/A	1.38	100	Brown	Yellow	Medium	N/A	N/A	3
P4912-04	MBHHJ4	N/A	1.38	100	Brown	Yellow	Medium	N/A	N/A	4
P4912-05	MBHHJ4D	N/A	1.23	100	Brown	Yellow	Medium	N/A	N/A	5
P4912-06	MBHHJ4S	N/A	1.49	100	Brown	Yellow	Medium	N/A	MP83147	6
P4912-07	MBHHJ5	N/A	1.21	100	Brown	Yellow	Medium	N/A	N/A	7
P4912-08	MBHHJ6	N/A	1.34	100	Brown	Yellow	Medium	N/A	N/A	8
P4912-09	MBHHJ7	N/A	1.37	100	Brown	Yellow	Medium	N/A	N/A	9
P4912-10	MBHHJ8	N/A	1.36	100	Brown	Yellow	Medium	N/A	N/A	10
P4912-11	MBHHJ9	N/A	1.21	100	Brown	Yellow	Medium	N/A	N/A	11
P4912-12	MBHHK0	N/A	1.20	100	Brown	Yellow	Medium	N/A	N/A	12
P4912-13	MBHHK1	N/A	1.24	100	Brown	Yellow	Medium	N/A	N/A	13
P4912-14	MBHHK2	N/A	1.34	100	Brown	Yellow	Medium	N/A	N/A	14
P4912-15	MBHHK3	N/A	1.10	100	Brown	Yellow	Medium	N/A	N/A	15
P4912-16	MBHHL8	N/A	1.37	100	Brown	Yellow	Medium	N/A	N/A	16
P4912-17	MBHHL9	N/A	1.20	100	Brown	Yellow	Medium	N/A	N/A	17
P4912-18	MBHHM0	N/A	1.17	100	Brown	Yellow	Medium	N/A	N/A	18
P4912-19	MBHHM1	N/A	1.30	100	Brown	Yellow	Medium	N/A	N/A	19
P4912-20	MBHHM2	N/A	1.19	100	Brown	Yellow	Medium	N/A	N/A	20
P4912-21	MBHHM3	N/A	1.21	100	Brown	Yellow	Medium	N/A	N/A	21
P4912-22	MBHHM4	N/A	1.40	100	Black	Yellow	Medium	N/A	N/A	22
PB165139BL	PBS139	N/A	1.00	100	Colorless	Colorless	Fine	N/A	N/A	23
PB165139BS	LCS139	N/A	1.00	100	Colorless	Colorless	Fine	N/A	MP83141	24

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 # LB133698

Review By	Sarabjit Jaswal	Review On	12/3/2024 10:24:06 PM
Supervise By	Kareem Khairalla	Supervise On	12/5/2024 8:14:16 PM

STD. NAME	STD REF.#
ICAL Standard	MP83134,MP83142,MP83140,MP83139,MP83138,MP83137,MP83136
ICV Standard	MP83143
CCV Standard	MP83146
ICSA Standard	MP83144,MP83145
CRI Standard	
LCS Standard	MP83141
Chk Standard	MP83148,MP83149

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	S0	S0	CAL1	12/02/24 15:21		Kareem	OK
2	S1	S01	CAL2	12/02/24 15:26		Kareem	OK
3	S2	S02	CAL3	12/02/24 15:30		Kareem	OK
4	S3	S03	CAL4	12/02/24 15:35		Kareem	OK
5	S4	S04	CAL5	12/02/24 15:39		Kareem	OK
6	S5	S05	CAL6	12/02/24 15:44		Kareem	OK
7	S6	S06	CAL7	12/02/24 15:48		Kareem	OK
8	ICV011	ICV011	ICV	12/02/24 16:20	Inst. paused for calibration review	Kareem	OK
9	ICB011	ICB011	ICB	12/02/24 16:27	Inst. paused for review	Kareem	OK
10	ICSA011	ICSA011	ICSA	12/02/24 16:40	Inst. paused for review	Kareem	OK
11	ICSAB011	ICSAB011	ICSAB	12/02/24 16:44		Kareem	OK
12	CCV071	CCV071	CCV	12/02/24 16:49		Kareem	OK
13	CCB071	CCB071	CCB	12/02/24 16:53		Kareem	OK
14	PB165190BL	PBW190	MB	12/02/24 16:58		Kareem	OK
15	PB165190BS	LCS190	LCS	12/02/24 17:02		Kareem	OK
16	PB165192BL	PBS192	MB	12/02/24 17:07		Kareem	OK
17	PB165192BS	LCS192	LCS	12/02/24 17:11		Kareem	OK
18	PB165197BL	PBS197	MB	12/02/24 17:16		Kareem	OK

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ICV Standard	MP83143
CCV Standard	MP83146
ICSA Standard	MP83144,MP83145
CRI Standard	
LCS Standard	MP83141
Chk Standard	MP83148,MP83149

19	PB165197BS	LCS197	LCS	12/02/24 17:20		Kareem	OK
20	PB165139BL	PBS139	MB	12/02/24 17:25		Kareem	OK
21	PB165139BS	LCS139	LCS	12/02/24 17:30		Kareem	OK
22	PB165171BL	PBS171	MB	12/02/24 17:34		Kareem	OK
23	PB165171BS	LCS171	LCS	12/02/24 17:39		Kareem	OK
24	PB165167BL	PBS167	MB	12/02/24 17:43		Kareem	OK
25	PB165167BS	LCS167	LCS	12/02/24 17:48		Kareem	OK
26	PB165169BL	PBS169	MB	12/02/24 17:52		Kareem	OK
27	PB165169BSRE	LCS169	LCS	12/02/24 17:57	Not use	Kareem	Not Ok
28	P4939-10	MBHHW8	SAM	12/02/24 18:01		Kareem	OK
29	P4939-11	MBHHW8D	DUP	12/02/24 18:18		Kareem	OK
30	P4939-10L	MBHHW8L	SD	12/02/24 18:23		Kareem	OK
31	P4939-12	MBHHW8S	MS	12/02/24 18:27	MS fail for Se(Below RL)	Kareem	OK
32	P4933-20	MBHHX4	SAM	12/02/24 18:31	MS fail for all parameters	Kareem	Not Ok
33	CCV072	CCV072	CCV	12/02/24 18:40		Kareem	OK
34	CCB072	CCB072	CCB	12/02/24 18:45		Kareem	OK
35	P4917-03	MX1009	SAM	12/02/24 18:50		Kareem	OK
36	P4917-01	MX1007	SAM	12/02/24 18:54	Be high	Kareem	Dilution
37	P4917-01DL	MX1007	SAM	12/02/24 19:02	2X for Be,Still high	Kareem	Dilution
38	P4917-01DL2	MX1007	SAM	12/02/24 19:16	5X for Be	Kareem	Confirms

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CCV Standard	MP83146
ICSA Standard	MP83144,MP83145
CRI Standard	
LCS Standard	MP83141
Chk Standard	MP83148,MP83149

39	PB165240BL	PBW240	MB	12/02/24 19:25		Kareem	OK
40	PB165240BS	LCS240	LCS	12/02/24 19:29		Kareem	OK
41	PB165239BL	PBS239	MB	12/02/24 19:34		Kareem	OK
42	PB165239BS	LCS239	LCS	12/02/24 19:38		Kareem	OK
43	PB165169BS	LCS169	LCS	12/02/24 19:43		Kareem	OK
44	CCV073	CCV073	CCV	12/02/24 19:47		Kareem	OK
45	CCB073	CCB073	CCB	12/02/24 19:52		Kareem	OK
46	P4933-21	MBHHX4D	DUP	12/02/24 19:56	MS fail for all parameters	Kareem	Not Ok
47	P4933-20L	MBHHX4L	SD	12/02/24 20:01	MS fail for all parameters	Kareem	Not Ok
48	P4933-22	MBHHX4S	MS	12/02/24 20:05	MS fail for all parameters	Kareem	Not Ok
49	P4912-04	MBHHJ4	SAM	12/02/24 20:10		Kareem	OK
50	P4912-05	MBHHJ4D	DUP	12/02/24 20:14		Kareem	OK
51	P4912-04L	MBHHJ4L	SD	12/02/24 20:18		Kareem	OK
52	P4912-06	MBHHJ4S	MS	12/02/24 20:23	MS fail for Cu(617.0452ppb), Se(Below RL), Zn(3393.068ppb)	Kareem	OK
53	P4932-03	MBHHQ2D	DUP	12/02/24 20:31		Kareem	OK
54	P4932-02	MBHHQ2	SAM	12/02/24 20:36		Kareem	OK
55	P4932-02L	MBHHQ2L	SD	12/02/24 20:40		Kareem	OK
56	P4932-04	MBHHQ2S	MS	12/02/24 20:45	MS fail for Zn(2524.072ppb)	Kareem	OK

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Chk Standard	MP83148,MP83149

57	P4914-11	MBHHK4	SAM	12/02/24 20:49		Kareem	OK
58	P4914-12	MBHHK4D	DUP	12/02/24 20:53		Kareem	OK
59	P4914-11L	MBHHK4L	SD	12/02/24 20:58		Kareem	OK
60	P4914-13	MBHHK4S	MS	12/02/24 21:02	MS fail for Cu(497.7801ppb)	Kareem	OK
61	P4915-08	MBHHM8	SAM	12/02/24 21:06		Kareem	OK
62	P4915-09	MBHHM8D	DUP	12/02/24 21:11		Kareem	OK
63	P4915-08L	MBHHM8L	SD	12/02/24 21:15		Kareem	OK
64	P4915-10	MBHHM8S	MS	12/02/24 21:20	MS fail for Se(Below RL)	Kareem	OK
65	P4915-06	MBHHM6	SAM	12/02/24 21:24		Kareem	OK
66	CCV074	CCV074	CCV	12/02/24 21:29		Kareem	OK
67	CCB074	CCB074	CCB	12/02/24 21:33		Kareem	OK
68	P4933-14	MBHHS4	SAM	12/02/24 21:38		Kareem	OK
69	P4939-01	MBHHS5	SAM	12/02/24 21:42		Kareem	OK
70	P4939-02	MBHHS6	SAM	12/02/24 21:47		Kareem	OK
71	P4939-03	MBHHT6	SAM	12/02/24 21:51		Kareem	OK
72	P4939-04	MBHHT7	SAM	12/02/24 21:55		Kareem	OK
73	P4939-05	MBHHT8	SAM	12/02/24 22:00		Kareem	OK
74	P4939-06	MBHHT9	SAM	12/02/24 22:04		Kareem	OK
75	P4939-07	MBHHW0	SAM	12/02/24 22:08		Kareem	OK

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CCV Standard	MP83146
ICSA Standard	MP83144,MP83145
CRI Standard	
LCS Standard	MP83141
Chk Standard	MP83148,MP83149

76	P4939-08	MBHHW6	SAM	12/02/24 22:13		Kareem	OK
77	P4939-09	MBHHW7	SAM	12/02/24 22:17		Kareem	OK
78	P4939-13	MBHHX5	SAM	12/02/24 22:22		Kareem	OK
79	P4939-14	MBHHX6	SAM	12/02/24 22:26		Kareem	OK
80	P4939-15	MBHHY5	SAM	12/02/24 22:30		Kareem	OK
81	P4939-16	MBHHY6	SAM	12/02/24 22:35		Kareem	OK
82	P4939-17	MBHHY7	SAM	12/02/24 22:39		Kareem	OK
83	P4939-18	MBHHY8	SAM	12/02/24 22:43		Kareem	OK
84	P4939-19	MBHHY9	SAM	12/02/24 22:48		Kareem	OK
85	P4939-20	MBHHZ0	SAM	12/02/24 22:53		Kareem	OK
86	P4939-21	MBHHZ1	SAM	12/02/24 22:57		Kareem	OK
87	P4939-22	MBHHZ2	SAM	12/02/24 23:02	Cu high	Kareem	Dilution
88	CCV075	CCV075	CCV	12/02/24 23:06		Kareem	OK
89	CCB075	CCB075	CCB	12/02/24 23:10		Kareem	OK
90	P4933-01	MBHHR1	SAM	12/02/24 23:15		Kareem	OK
91	P4933-02	MBHHR2	SAM	12/02/24 23:19		Kareem	OK
92	P4933-03	MBHHR3	SAM	12/02/24 23:24		Kareem	OK
93	P4933-04	MBHHR4	SAM	12/02/24 23:28		Kareem	OK
94	P4933-05	MBHHR5	SAM	12/02/24 23:32	Mn high	Kareem	Dilution
95	P4933-06	MBHHR6	SAM	12/02/24 23:37		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 # LB133698

Review By	Sarabjit Jaswal	Review On	12/3/2024 10:24:06 PM
Supervise By	Kareem Khairalla	Supervise On	12/5/2024 8:14:16 PM

STD. NAME	STD REF.#
ICAL Standard	MP83134,MP83142,MP83140,MP83139,MP83138,MP83137,MP83136
ICV Standard	MP83143
CCV Standard	MP83146
ICSA Standard	MP83144,MP83145
CRI Standard	
LCS Standard	MP83141
Chk Standard	MP83148,MP83149

96	P4933-07	MBHHR7	SAM	12/02/24 23:41		Kareem	OK
97	P4933-08	MBHHR8	SAM	12/02/24 23:45		Kareem	OK
98	P4933-09	MBHHR9	SAM	12/02/24 23:50		Kareem	OK
99	P4933-10	MBHHS0	SAM	12/02/24 23:55		Kareem	OK
100	P4933-11	MBHHS1	SAM	12/02/24 23:59		Kareem	OK
101	P4933-12	MBHHS2	SAM	12/03/24 00:03		Kareem	OK
102	P4933-13	MBHHS3	SAM	12/03/24 00:08		Kareem	OK
103	P4933-15	MBHHW9	SAM	12/03/24 00:12		Kareem	OK
104	P4933-16	MBHHX0	SAM	12/03/24 00:16		Kareem	OK
105	P4933-17	MBHHX1	SAM	12/03/24 00:21		Kareem	OK
106	P4933-18	MBHHX2	SAM	12/03/24 00:25	Not use	Kareem	Not Ok
107	P4933-19	MBHHX3	SAM	12/03/24 00:30	Not use	Kareem	Not Ok
108	P4912-01	MBHHJ1	SAM	12/03/24 00:34	Not use	Kareem	Not Ok
109	P4912-02	MBHHJ2	SAM	12/03/24 00:38	Not use	Kareem	Not Ok
110	CCV076	CCV076	CCV	12/03/24 00:43		Kareem	OK
111	CCB076	CCB076	CCB	12/03/24 00:47		Kareem	OK
112	P4912-03	MBHHJ3	SAM	12/03/24 00:52	Not use	Kareem	Not Ok
113	P4912-07	MBHHJ5	SAM	12/03/24 00:56	Not use	Kareem	Not Ok
114	P4912-08	MBHHJ6	SAM	12/03/24 01:01	Not use	Kareem	Not Ok
115	P4912-09	MBHHJ7	SAM	12/03/24 01:05	Not use	Kareem	Not Ok

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Instrument ID: P5

Daily Analysis Runlog For Sequence/QCBatch ID # LB133698

Review By	Sarabjit Jaswal	Review On	12/3/2024 10:24:06 PM
Supervise By	Kareem Khairalla	Supervise On	12/5/2024 8:14:16 PM

STD. NAME	STD REF.#
ICAL Standard	MP83134,MP83142,MP83140,MP83139,MP83138,MP83137,MP83136
ICV Standard	MP83143
CCV Standard	MP83146
ICSA Standard	MP83144,MP83145
CRI Standard	
LCS Standard	MP83141
Chk Standard	MP83148,MP83149

116	P4912-10	MBHHJ8	SAM	12/03/24 01:09	Not use	Kareem	Not Ok
117	P4912-11	MBHHJ9	SAM	12/03/24 01:14	Not use	Kareem	Not Ok
118	P4912-12	MBHHK0	SAM	12/03/24 01:18	Not use	Kareem	Not Ok
119	P4912-13	MBHHK1	SAM	12/03/24 01:22	Not use	Kareem	Not Ok
120	P4912-14	MBHHK2	SAM	12/03/24 01:27	Not use	Kareem	Not Ok
121	P4912-15	MBHHK3	SAM	12/03/24 01:31	Not use	Kareem	Not Ok
122	P4912-16	MBHHL8	SAM	12/03/24 01:36	Not use	Kareem	Not Ok
123	P4912-17	MBHHL9	SAM	12/03/24 01:40	Not use	Kareem	Not Ok
124	P4912-18	MBHHM0	SAM	12/03/24 01:44	Not use	Kareem	Not Ok
125	P4912-19	MBHHM1	SAM	12/03/24 01:49	Not use	Kareem	Not Ok
126	P4912-20	MBHHM2	SAM	12/03/24 01:53	Not use	Kareem	Not Ok
127	P4912-21	MBHHM3	SAM	12/03/24 01:57	Not use	Kareem	Not Ok
128	P4912-22	MBHHM4	SAM	12/03/24 02:02	Not use	Kareem	Not Ok
129	P4932-01	MBHHQ1	SAM	12/03/24 02:06	Not use	Kareem	Not Ok
130	P4932-05	MBHHQ3	SAM	12/03/24 02:11	Not use	Kareem	Not Ok
131	P4932-06	MBHHQ4	SAM	12/03/24 02:15	Not use	Kareem	Not Ok
132	CCV077	CCV077	CCV	12/03/24 02:19	%RSD fail for Ag, Zn	Kareem	OK
133	CCB077	CCB077	CCB	12/03/24 02:24		Kareem	OK
134	P4932-07	MBHHQ5	SAM	12/03/24 02:28	Not use	Kareem	Not Ok
135	P4932-08	MBHHQ6	SAM	12/03/24 02:33	Not use	Kareem	Not Ok

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Instrument ID: P5

Daily Analysis Runlog For Sequence/QCBatch ID # LB133698

Review By	Sarabjit Jaswal	Review On	12/3/2024 10:24:06 PM
Supervise By	Kareem Khairalla	Supervise On	12/5/2024 8:14:16 PM

STD. NAME	STD REF.#
ICAL Standard	MP83134,MP83142,MP83140,MP83139,MP83138,MP83137,MP83136
ICV Standard	MP83143
CCV Standard	MP83146
ICSA Standard	MP83144,MP83145
CRI Standard	
LCS Standard	MP83141
Chk Standard	MP83148,MP83149

136	P4932-09	MBHHQ7	SAM	12/03/24 02:37	Not use	Kareem	Not Ok
137	P4932-10	MBHHQ8	SAM	12/03/24 02:41	Not use	Kareem	Not Ok
138	P4932-11	MBHHQ9	SAM	12/03/24 02:46	Not use	Kareem	Not Ok
139	P4932-12	MBHHP1	SAM	12/03/24 02:50	Not use	Kareem	Not Ok
140	P4932-13	MBHHP2	SAM	12/03/24 02:55	Not use	Kareem	Not Ok
141	P4932-14	MBHHP3	SAM	12/03/24 02:59	Not use	Kareem	Not Ok
142	P4932-15	MBHHP4	SAM	12/03/24 03:03	Not use	Kareem	Not Ok
143	P4932-16	MBHHP5	SAM	12/03/24 03:08	Not use	Kareem	Not Ok
144	P4932-17	MBHHP6	SAM	12/03/24 03:12	Not use	Kareem	Not Ok
145	P4932-18	MBHHP7	SAM	12/03/24 03:17	Not use	Kareem	Not Ok
146	P4932-19	MBHHP8	SAM	12/03/24 03:21	Not use	Kareem	Not Ok
147	P4932-20	MBHHP9	SAM	12/03/24 03:25	Not use	Kareem	Not Ok
148	P4932-21	MBHHQ0	SAM	12/03/24 03:30	Not use	Kareem	Not Ok
149	P4932-22	MBHHR0	SAM	12/03/24 03:34	Not use	Kareem	Not Ok
150	P4914-01	MBHHF2	SAM	12/03/24 03:38	Not use	Kareem	Not Ok
151	P4914-02	MBHHF3	SAM	12/03/24 03:43	Not use	Kareem	Not Ok
152	P4914-03	MBHHF4	SAM	12/03/24 03:47	Not use	Kareem	Not Ok
153	P4914-04	MBHHF5	SAM	12/03/24 03:52	Not use	Kareem	Not Ok
154	CCV078	CCV078	CCV	12/03/24 03:56	%RSD fail for Cr, Ag, Zn	Kareem	OK
155	CCB078	CCB078	CCB	12/03/24 04:00		Kareem	OK

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Instrument ID: P5

Daily Analysis Runlog For Sequence/QCBatch ID # LB133698

Review By	Sarabjit Jaswal	Review On	12/3/2024 10:24:06 PM
Supervise By	Kareem Khairalla	Supervise On	12/5/2024 8:14:16 PM

STD. NAME	STD REF.#
ICAL Standard	MP83134,MP83142,MP83140,MP83139,MP83138,MP83137,MP83136
ICV Standard	MP83143
CCV Standard	MP83146
ICSA Standard	MP83144,MP83145
CRI Standard	
LCS Standard	MP83141
Chk Standard	MP83148,MP83149

156	P4914-05	MBHHF6	SAM	12/03/24 04:05	Not use	Kareem	Not Ok
157	P4914-06	MBHHF7	SAM	12/03/24 04:09	Not use	Kareem	Not Ok
158	P4914-07	MBHHF8	SAM	12/03/24 04:14	Not use	Kareem	Not Ok
159	P4914-08	MBHHF9	SAM	12/03/24 04:18	Not use	Kareem	Not Ok
160	P4914-09	MBHHG0	SAM	12/03/24 04:22	Not use	Kareem	Not Ok
161	P4914-10	MBHHG1	SAM	12/03/24 04:27	Not use	Kareem	Not Ok
162	P4914-14	MBHHK5	SAM	12/03/24 04:31	Not use	Kareem	Not Ok
163	P4914-15	MBHHK6	SAM	12/03/24 04:36	Not use	Kareem	Not Ok
164	P4914-16	MBHHK7	SAM	12/03/24 04:40	Not use	Kareem	Not Ok
165	P4914-17	MBHHK8	SAM	12/03/24 04:44	Not use	Kareem	Not Ok
166	P4914-18	MBHHK9	SAM	12/03/24 04:49	Not use	Kareem	Not Ok
167	P4914-19	MBHHL0	SAM	12/03/24 04:53	Not use	Kareem	Not Ok
168	P4914-20	MBHHL1	SAM	12/03/24 04:57	Not use	Kareem	Not Ok
169	P4914-21	MBHHL2	SAM	12/03/24 05:02	Not use	Kareem	Not Ok
170	P4914-22	MBHHL3	SAM	12/03/24 05:06	Not use	Kareem	Not Ok
171	P4915-01	MBHHL4	SAM	12/03/24 05:11	Not use	Kareem	Not Ok
172	P4915-02	MBHHL5	SAM	12/03/24 05:15	Not use	Kareem	Not Ok
173	P4915-03	MBHHL6	SAM	12/03/24 05:19	Not use	Kareem	Not Ok
174	P4915-04	MBHHL7	SAM	12/03/24 05:24	Not use	Kareem	Not Ok
175	P4915-05	MBHHM5	SAM	12/03/24 05:28	Not use	Kareem	Not Ok

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Instrument ID: P5

Daily Analysis Runlog For Sequence/QCBatch ID # LB133698

Review By	Sarabjit Jaswal	Review On	12/3/2024 10:24:06 PM
Supervise By	Kareem Khairalla	Supervise On	12/5/2024 8:14:16 PM

STD. NAME	STD REF.#
ICAL Standard	MP83134,MP83142,MP83140,MP83139,MP83138,MP83137,MP83136
ICV Standard	MP83143
CCV Standard	MP83146
ICSA Standard	MP83144,MP83145
CRI Standard	
LCS Standard	MP83141
Chk Standard	MP83148,MP83149

176	CCV079	CCV079	CCV	12/03/24 05:33		Kareem	OK
177	CCB079	CCB079	CCB	12/03/24 05:37		Kareem	OK
178	P4915-07	MBHHM7	SAM	12/03/24 05:42		Kareem	OK
179	P4915-11	MBHHM9	SAM	12/03/24 05:46		Kareem	OK
180	P4915-12	MBHHN0	SAM	12/03/24 05:50		Kareem	OK
181	P4915-13	MBHHN1	SAM	12/03/24 05:55		Kareem	OK
182	P4915-14	MBHHN2	SAM	12/03/24 05:59		Kareem	OK
183	P4915-15	MBHHN3	SAM	12/03/24 06:03		Kareem	OK
184	P4915-16	MBHHN4	SAM	12/03/24 06:08		Kareem	OK
185	P4915-17	MBHHN5	SAM	12/03/24 06:12		Kareem	OK
186	P4915-18	MBHHN6	SAM	12/03/24 06:17		Kareem	OK
187	P4915-19	MBHHN7	SAM	12/03/24 06:21		Kareem	OK
188	P4915-20	MBHHN8	SAM	12/03/24 06:25		Kareem	OK
189	P4915-21	MBHHN9	SAM	12/03/24 06:30		Kareem	OK
190	P4915-22	MBHHP0	SAM	12/03/24 06:34		Kareem	OK
191	CCV080	CCV080	CCV	12/03/24 06:39		Kareem	OK
192	CCB080	CCB080	CCB	12/03/24 06:43		Kareem	OK
193	P4907-04DL	MBHHE4	SAM	12/03/24 06:48	2X for Ca	Kareem	Confirms
194	P4907-05DL	MBHHE5	SAM	12/03/24 06:52	2X for Ca	Kareem	Confirms
195	P4906-18DL	MBHHA3	SAM	12/03/24 06:57	2X for Ca	Kareem	Confirms

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Instrument ID: P5

Daily Analysis Runlog For Sequence/QCBatch ID # LB133698

Review By	Sarabjit Jaswal	Review On	12/3/2024 10:24:06 PM
Supervise By	Kareem Khairalla	Supervise On	12/5/2024 8:14:16 PM

STD. NAME	STD REF.#
ICAL Standard	MP83134,MP83142,MP83140,MP83139,MP83138,MP83137,MP83136
ICV Standard	MP83143
CCV Standard	MP83146
ICSA Standard	MP83144,MP83145
CRI Standard	
LCS Standard	MP83141
Chk Standard	MP83148,MP83149

196	P4906-19DL	MBHHA4	SAM	12/03/24 07:01	2X for Ca	Kareem	Confirms
197	P4902-01	E29Y8	SAM	12/03/24 07:06	Ca high	Kareem	Dilution
198	P4902-02	E2A12	SAM	12/03/24 07:10		Kareem	OK
199	P4902-03	E2A12D	DUP	12/03/24 07:15		Kareem	OK
200	P4902-02L	E2A12L	SD	12/03/24 07:20		Kareem	OK
201	P4902-04	E2A12S	MS	12/03/24 07:24		Kareem	OK
202	PB165215BL	PBS215	MB	12/03/24 07:29		Kareem	OK
203	PB165215BS	LCS215	LCS	12/03/24 07:33		Kareem	OK
204	CCV081	CCV081	CCV	12/03/24 07:38		Kareem	OK
205	CCB081	CCB081	CCB	12/03/24 07:42		Kareem	OK

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Instrument ID: P5

Daily Analysis Runlog For Sequence/QCBatch ID # LB133774

Review By	Kareem Khairalla	Review On	12/6/2024 3:40:03 PM
Supervise By	Sarabjit Jaswal	Supervise On	12/14/2024 4:08:47 AM

STD. NAME	STD REF.#
ICAL Standard	MP83134,MP83142,MP83140,MP83139,MP83138,MP83137,MP83136
ICV Standard	MP83143
CCV Standard	MP83146
ICSA Standard	MP83144,MP83145
CRI Standard	
LCS Standard	
Chk Standard	MP83148,MP83149

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	S0	S0	CAL1	12/04/24 18:07		Kareem	OK
2	S1	S01	CAL2	12/04/24 18:11		Kareem	OK
3	S2	S02	CAL3	12/04/24 18:15		Kareem	OK
4	S3	S03	CAL4	12/04/24 18:19		Kareem	OK
5	S4	S04	CAL5	12/04/24 18:23		Kareem	OK
6	S5	S05	CAL6	12/04/24 18:27		Kareem	OK
7	S6	S06	CAL7	12/04/24 18:31		Kareem	OK
8	ICV013	ICV013	ICV	12/04/24 18:35		Kareem	OK
9	ICB013	ICB013	ICB	12/04/24 18:39		Kareem	OK
10	ICSA013	ICSA013	ICSA	12/04/24 18:48	Inst. paused for review	Kareem	OK
11	ICSAB013	ICSAB013	ICSAB	12/04/24 18:52		Kareem	OK
12	CCV061	CCV061	CCV	12/04/24 18:56		Kareem	OK
13	CCB061	CCB061	CCB	12/04/24 19:00		Kareem	OK
14	PB165289BS	LCS289	LCS	12/04/24 19:08		Kareem	OK
15	PB165289BL	PBW289	MB	12/04/24 19:18		Kareem	OK
16	PB165325BL	PBS325	MB	12/04/24 19:22		Kareem	OK
17	PB165325BS	LCS325	LCS	12/04/24 19:26		Kareem	OK
18	P5015-03	MBHKJ8	SAM	12/04/24 19:30		Kareem	OK

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Instrument ID: P5

Daily Analysis Runlog For Sequence/QCBatch ID # LB133774

Review By	Kareem Khairalla	Review On	12/6/2024 3:40:03 PM
Supervise By	Sarabjit Jaswal	Supervise On	12/14/2024 4:08:47 AM

STD. NAME	STD REF.#
ICAL Standard	MP83134,MP83142,MP83140,MP83139,MP83138,MP83137,MP83136
ICV Standard	MP83143
CCV Standard	MP83146
ICSA Standard	MP83144,MP83145
CRI Standard	
LCS Standard	
Chk Standard	MP83148,MP83149

19	P5015-04	MBHKJ9	SAM	12/04/24 19:34		Kareem	OK
20	P5015-05	MBHKK0	SAM	12/04/24 19:38	Pb high	Kareem	Dilution
21	P5015-06	MBHKK1	SAM	12/04/24 19:42		Kareem	OK
22	P5015-07	MBHKK2	SAM	12/04/24 19:46		Kareem	OK
23	P5015-08	MBHKK3	SAM	12/04/24 19:50	Ca high	Kareem	Dilution
24	P5015-09	MBHKK4	SAM	12/04/24 19:54	Ca high	Kareem	Dilution
25	P5015-10	MBHKL2	SAM	12/04/24 19:58		Kareem	OK
26	P5015-11	MBHKL3	SAM	12/04/24 20:02		Kareem	OK
27	P5015-12	MBHKL4	SAM	12/04/24 20:06		Kareem	OK
28	P5015-13	MBHKM5	SAM	12/04/24 20:09		Kareem	OK
29	P5015-14	MBHKQ2	SAM	12/04/24 20:13	Ca high	Kareem	Dilution
30	CCV062	CCV062	CCV	12/04/24 20:17		Kareem	OK
31	CCB062	CCB062	CCB	12/04/24 20:21		Kareem	OK
32	P5015-15	MBHKQ3	SAM	12/04/24 20:25		Kareem	OK
33	P5015-16	MBHKQ5	SAM	12/04/24 20:29		Kareem	OK
34	P5015-20	MBHKQ7	SAM	12/04/24 20:33		Kareem	OK
35	P5015-21	MBHKQ8	SAM	12/04/24 20:37		Kareem	OK
36	P5015-22	MBHKQ9	SAM	12/04/24 20:41		Kareem	OK
37	P4912-01	MBHHJ1	SAM	12/04/24 20:45		Kareem	OK
38	P4912-02	MBHHJ2	SAM	12/04/24 20:49		Kareem	OK

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Instrument ID: P5

Daily Analysis Runlog For Sequence/QCBatch ID # LB133774

Review By	Kareem Khairalla	Review On	12/6/2024 3:40:03 PM
Supervise By	Sarabjit Jaswal	Supervise On	12/14/2024 4:08:47 AM

STD. NAME	STD REF.#
ICAL Standard	MP83134,MP83142,MP83140,MP83139,MP83138,MP83137,MP83136
ICV Standard	MP83143
CCV Standard	MP83146
ICSA Standard	MP83144,MP83145
CRI Standard	
LCS Standard	
Chk Standard	MP83148,MP83149

39	P4912-03	MBHHJ3	SAM	12/04/24 20:53		Kareem	OK
40	P4912-07	MBHHJ5	SAM	12/04/24 20:56		Kareem	OK
41	P4912-08	MBHHJ6	SAM	12/04/24 21:00		Kareem	OK
42	P4912-09	MBHHJ7	SAM	12/04/24 21:04		Kareem	OK
43	P4912-10	MBHHJ8	SAM	12/04/24 21:08		Kareem	OK
44	P4912-11	MBHHJ9	SAM	12/04/24 21:12		Kareem	OK
45	P4912-12	MBHHK0	SAM	12/04/24 21:16		Kareem	OK
46	P4912-13	MBHHK1	SAM	12/04/24 21:20		Kareem	OK
47	P4915-08	MBHHM8	SAM	12/04/24 21:24	NOT USE	Kareem	Not Ok
48	P4915-09	MBHHM8D	DUP	12/04/24 21:28	NOT USE	Kareem	Not Ok
49	P4915-08L	MBHHM8L	SD	12/04/24 21:31	NOT USE	Kareem	Not Ok
50	P4915-10	MBHHM8S	MS	12/04/24 21:35	NOT USE	Kareem	Not Ok
51	PB165169BL	PBS169	MB	12/04/24 21:39	NOT USE	Kareem	Not Ok
52	CCV063	CCV063	CCV	12/04/24 21:43		Kareem	OK
53	CCB063	CCB063	CCB	12/04/24 21:47		Kareem	OK

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Instrument ID: P5

Daily Analysis Runlog For Sequence/QCBatch ID # LB133883

Review By	Sarabjit Jaswal	Review On	12/12/2024 8:19:04 AM
Supervise By	Kareem Khairalla	Supervise On	12/13/2024 7:24:03 PM

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	M5751,MP83567,M5819
LCS Standard	
Chk Standard	MP83513,MP83514

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	S0	S0	CAL1	12/10/24 15:54		Kareem	OK
2	S1	S01	CAL2	12/10/24 15:58		Kareem	OK
3	S2	S02	CAL3	12/10/24 16:02		Kareem	OK
4	S3	S03	CAL4	12/10/24 16:06		Kareem	OK
5	S4	S04	CAL5	12/10/24 16:09		Kareem	OK
6	S5	S05	CAL6	12/10/24 16:13		Kareem	OK
7	S6	S06	CAL7	12/10/24 16:17		Kareem	OK
8	ICV014	ICV014	ICV	12/10/24 16:45	Inst. paused for Calibration review	Kareem	OK
9	ICB014	ICB014	ICB	12/10/24 16:51	Inst. paused for review	Kareem	OK
10	ICSA014	ICSA014	ICSA	12/10/24 17:21	Inst. paused for review	Kareem	OK
11	ICSAB014	ICSAB014	ICSAB	12/10/24 17:27		Kareem	OK
12	CCV089	CCV089	CCV	12/10/24 17:48	Inst. paused for review	Kareem	OK
13	CCB089	CCB089	CCB	12/10/24 17:52		Kareem	OK
14	PB165364BL	PBS364	MB	12/10/24 17:56		Kareem	OK
15	PB165351BL	PBS351	MB	12/10/24 18:04		Kareem	OK
16	PB165364BS	LCS364	LCS	12/10/24 18:09		Kareem	OK
17	PB165351BS	LCS351	LCS	12/10/24 18:13		Kareem	OK
18	PB165350BL	PBS350	MB	12/10/24 18:17		Kareem	OK

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Fax : 908 789 8922

Instrument ID: P5

Daily Analysis Runlog For Sequence/QCBatch ID # LB133883

Review By	Sarabjit Jaswal	Review On	12/12/2024 8:19:04 AM
Supervise By	Kareem Khairalla	Supervise On	12/13/2024 7:24:03 PM

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	M5751,MP83567,M5819
LCS Standard	
Chk Standard	MP83513,MP83514

19	PB165350BS	LCS350	LCS	12/10/24 18:22		Kareem	OK
20	CCV090	CCV090	CCV	12/10/24 18:26		Kareem	OK
21	CCB090	CCB090	CCB	12/10/24 18:29		Kareem	OK
22	P5041-01	MBHK78	SAM	12/10/24 18:33		Kareem	OK
23	P5041-02	MBHK78D	DUP	12/10/24 18:37		Kareem	OK
24	P5041-01L	MBHK78L	SD	12/10/24 18:41		Kareem	OK
25	P5041-03	MBHK78S	MS	12/10/24 18:45	MS Fail For Se(Below RL)	Kareem	OK
26	P5042-01	MBHKB0	SAM	12/10/24 18:49	Not Use	Kareem	Not Ok
27	P5042-02	MBHKB0D	DUP	12/10/24 18:53	Not Use	Kareem	Not Ok
28	P5042-01L	MBHKB0L	SD	12/10/24 18:56	Not Use	Kareem	Not Ok
29	P5042-03	MBHKB0S	MS	12/10/24 19:00	Not Use	Kareem	Not Ok
30	P5043-01	MBHKM2	SAM	12/10/24 19:04		Kareem	OK
31	P5043-02	MBHKM2D	DUP	12/10/24 19:08		Kareem	OK
32	P5043-01L	MBHKM2L	SD	12/10/24 19:12		Kareem	OK
33	P5043-03	MBHKM2S	MS	12/10/24 19:16	MS Fail For Ag	Kareem	OK
34	P4977-03	ME29F8	SAM	12/10/24 19:20	Ca High	Kareem	Dilution
35	P4977-04	ME29F8D	DUP	12/10/24 19:23	Ca High	Kareem	Dilution
36	P4977-03L	ME29F8L	SD	12/10/24 19:27	Ca High	Kareem	Dilution
37	P4977-05	ME29F8S	MS	12/10/24 19:31		Kareem	OK
38	P4976-09	ME29E4D	DUP	12/10/24 19:35	Ca High	Kareem	Dilution

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Instrument ID: P5

Daily Analysis Runlog For Sequence/QCBatch ID # LB133883

Review By	Sarabjit Jaswal	Review On	12/12/2024 8:19:04 AM
Supervise By	Kareem Khairalla	Supervise On	12/13/2024 7:24:03 PM

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	M5751,MP83567,M5819
LCS Standard	
Chk Standard	MP83513,MP83514

39	P4976-08L	ME29E4L	SD	12/10/24 19:39	Ca High	Kareem	Dilution
40	P4976-10	ME29E4S	MS	12/10/24 19:43		Kareem	OK
41	P5040-01	MBHKD6	SAM	12/10/24 19:47		Kareem	OK
42	CCV091	CCV091	CCV	12/10/24 19:51		Kareem	OK
43	CCB091	CCB091	CCB	12/10/24 19:54		Kareem	OK
44	P5040-02	MBHKD6D	DUP	12/10/24 19:58		Kareem	OK
45	P5040-01L	MBHKD6L	SD	12/10/24 20:02		Kareem	OK
46	P5040-03	MBHKD6S	MS	12/10/24 20:06	MS Fail For Se(Below RL)	Kareem	OK
47	P4977-01	ME29F6	SAM	12/10/24 20:10	Ca High	Kareem	Dilution
48	P4977-02	ME29F7	SAM	12/10/24 20:14	Ca High	Kareem	Dilution
49	P4977-06	ME29F9	SAM	12/10/24 20:18	Ca High	Kareem	Dilution
50	P4977-07	ME29G0	SAM	12/10/24 20:21	Ca High	Kareem	Dilution
51	P4977-08	ME29G1	SAM	12/10/24 20:25	Ca High	Kareem	Dilution
52	P4977-09	ME29G2	SAM	12/10/24 20:29	Ca High	Kareem	Dilution
53	P4976-01	ME29D7	SAM	12/10/24 20:33	Ca High	Kareem	Dilution
54	P4976-02	ME29D8	SAM	12/10/24 20:37	Ca High	Kareem	Dilution
55	P4976-03	ME29D9	SAM	12/10/24 20:41	Ca High	Kareem	Dilution
56	P4976-04	ME29E0	SAM	12/10/24 20:45		Kareem	OK
57	P4976-05	ME29E1	SAM	12/10/24 20:48	Ca High	Kareem	Dilution
58	P4976-06	ME29E2	SAM	12/10/24 20:52	Ca High	Kareem	Dilution

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Instrument ID: P5

Daily Analysis Runlog For Sequence/QCBatch ID # LB133883

Review By	Sarabjit Jaswal	Review On	12/12/2024 8:19:04 AM
Supervise By	Kareem Khairalla	Supervise On	12/13/2024 7:24:03 PM

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	M5751,MP83567,M5819
LCS Standard	
Chk Standard	MP83513,MP83514

59	P4976-07	ME29E3	SAM	12/10/24 20:56	Ca High	Kareem	Dilution
60	P4976-08	ME29E4	SAM	12/10/24 21:00	Ca High	Kareem	Dilution
61	P4976-11	ME29E5	SAM	12/10/24 21:04	Ca High	Kareem	Dilution
62	P4976-12	ME29E6	SAM	12/10/24 21:08	Ca High	Kareem	Dilution
63	P4976-13	ME29E7	SAM	12/10/24 21:12	Ca High	Kareem	Dilution
64	CCV092	CCV092	CCV	12/10/24 21:29		Kareem	OK
65	CCB092	CCB092	CCB	12/10/24 21:52	Inst. paused for review	Kareem	OK
66	P4976-14	ME29E8	SAM	12/10/24 21:56	Ca High	Kareem	Dilution
67	P4976-15	ME29E9	SAM	12/10/24 22:00	Ca High	Kareem	Dilution
68	P4976-16	ME29F0	SAM	12/10/24 22:04	Ca High	Kareem	Dilution
69	P4976-17	ME29F1	SAM	12/10/24 22:08	Ca High	Kareem	Dilution
70	P4976-18	ME29F2	SAM	12/10/24 22:12	Ca High	Kareem	Dilution
71	P4976-19	ME29F3	SAM	12/10/24 22:16	Ca High	Kareem	Dilution
72	P4976-20	ME29F4	SAM	12/10/24 22:20	Ca High	Kareem	Dilution
73	P4976-21	ME29F5	SAM	12/10/24 22:23	Ca High	Kareem	Dilution
74	P4880-14	MBHH91	SAM	12/10/24 22:27		Kareem	OK
75	P4880-15	MBHH91D	DUP	12/10/24 22:31		Kareem	OK
76	P4880-14L	MBHH91L	SD	12/10/24 22:35		Kareem	OK
77	P4880-16	MBHH91S	MS	12/10/24 22:39	MS Fail For Ag,Se(Below RL)	Kareem	OK

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Instrument ID: P5

Daily Analysis Runlog For Sequence/QCBatch ID # LB133883

Review By	Sarabjit Jaswal	Review On	12/12/2024 8:19:04 AM
Supervise By	Kareem Khairalla	Supervise On	12/13/2024 7:24:03 PM

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	M5751,MP83567,M5819
LCS Standard	
Chk Standard	MP83513,MP83514

78	P4880-12DL	MBHH89	SAM	12/10/24 22:43	2X For Ca	Kareem	Confirms
79	P4905-02	MBHHA6	SAM	12/10/24 22:46		Kareem	OK
80	P4905-03	MBHHA6D	DUP	12/10/24 22:50		Kareem	OK
81	P4905-02L	MBHHA6L	SD	12/10/24 22:54		Kareem	OK
82	P4905-04	MBHHA6S	MS	12/10/24 22:58	MS Fail For Sb,As(115.87ppb),Ba(2331 .33ppb),Cu(457.90),Se(Bel ow RL),Ag,Zn(2281.14ppb)	Kareem	OK
83	CCV093	CCV093	CCV	12/10/24 23:02		Kareem	OK
84	CCB093	CCB093	CCB	12/10/24 23:05		Kareem	OK
85	P4907-01A	MBHHE1A	PS	12/10/24 23:09	Not Use	Kareem	Not Ok
86	P4912-04A	MBHHJ4A	PS	12/10/24 23:13	PS For Cu(0.012ml m5751,Se-0.07ml mp83567,Zn-0.068ml m5819	Kareem	OK
87	P4912-14	MBHHK2	SAM	12/10/24 23:17		Kareem	OK
88	P4912-15	MBHHK3	SAM	12/10/24 23:21		Kareem	OK
89	P4912-16	MBHHL8	SAM	12/10/24 23:24		Kareem	OK
90	P4912-17	MBHHL9	SAM	12/10/24 23:28		Kareem	OK
91	P4912-18	MBHHM0	SAM	12/10/24 23:32		Kareem	OK
92	P4912-19	MBHHM1	SAM	12/10/24 23:36		Kareem	OK
93	P4912-20	MBHHM2	SAM	12/10/24 23:40		Kareem	OK
94	P4912-21	MBHHM3	SAM	12/10/24 23:43		Kareem	OK

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Instrument ID: P5

Daily Analysis Runlog For Sequence/QCBatch ID # LB133883

Review By	Sarabjit Jaswal	Review On	12/12/2024 8:19:04 AM
Supervise By	Kareem Khairalla	Supervise On	12/13/2024 7:24:03 PM

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	M5751,MP83567,M5819
LCS Standard	
Chk Standard	MP83513,MP83514

95	P4912-22	MBHHM4	SAM	12/10/24 23:47		Kareem	OK
96	P4914-11A	MBHHK4A	PS	12/10/24 23:51	PS For Cu(0.01ML M5751-10ML SAMPLE)	Kareem	OK
97	P4915-08A	MBHHM8A	PS	12/10/24 23:55	PS For Se - 0.07ml mp83567-10ml sample	Kareem	OK
98	P4915-01	MBHHL4	SAM	12/10/24 23:58		Kareem	OK
99	P4915-02	MBHHL5	SAM	12/11/24 00:02		Kareem	OK
100	P4915-03	MBHHL6	SAM	12/11/24 00:06		Kareem	OK
101	P4915-04	MBHHL7	SAM	12/11/24 00:10		Kareem	OK
102	P4915-05	MBHHM5	SAM	12/11/24 00:14		Kareem	OK
103	P4915-06	MBHHM6	SAM	12/11/24 00:18	Not Use	Kareem	Not Ok
104	P4932-02	MBHHQ2	SAM	12/11/24 00:22	Not Use	Kareem	Not Ok
105	CCV094	CCV094	CCV	12/11/24 00:25		Kareem	OK
106	CCB094	CCB094	CCB	12/11/24 00:29		Kareem	OK
107	P4932-01	MBHHQ1	SAM	12/11/24 00:33	Not Use	Kareem	Not Ok
108	P4932-05	MBHHQ3	SAM	12/11/24 00:37	Not Use	Kareem	Not Ok
109	P4932-06	MBHHQ4	SAM	12/11/24 00:41	Not Use	Kareem	Not Ok
110	P4932-07	MBHHQ5	SAM	12/11/24 00:44	Not Use	Kareem	Not Ok
111	P4932-08	MBHHQ6	SAM	12/11/24 00:48	Not Use	Kareem	Not Ok
112	P4932-09	MBHHQ7	SAM	12/11/24 00:52	Not Use	Kareem	Not Ok
113	P4932-10	MBHHQ8	SAM	12/11/24 00:56	Not Use	Kareem	Not Ok

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Instrument ID: P5

Daily Analysis Runlog For Sequence/QCBatch ID # LB133883

Review By	Sarabjit Jaswal	Review On	12/12/2024 8:19:04 AM
Supervise By	Kareem Khairalla	Supervise On	12/13/2024 7:24:03 PM

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	M5751,MP83567,M5819
LCS Standard	
Chk Standard	MP83513,MP83514

114	P4932-11	MBHHQ9	SAM	12/11/24 00:59	Not Use	Kareem	Not Ok
115	P4932-12	MBHHP1	SAM	12/11/24 01:03	Not Use	Kareem	Not Ok
116	P4932-13	MBHHP2	SAM	12/11/24 01:07	Not Use	Kareem	Not Ok
117	P4932-14	MBHHP3	SAM	12/11/24 01:11	Not Use	Kareem	Not Ok
118	P4932-15	MBHHP4	SAM	12/11/24 01:15	Not Use	Kareem	Not Ok
119	P4932-16	MBHHP5	SAM	12/11/24 01:18	Not Use	Kareem	Not Ok
120	P4932-17	MBHHP6	SAM	12/11/24 01:22	Not Use	Kareem	Not Ok
121	P4932-18	MBHHP7	SAM	12/11/24 01:26	Not Use	Kareem	Not Ok
122	P4932-19	MBHHP8	SAM	12/11/24 01:30	Not Use	Kareem	Not Ok
123	P4932-20	MBHHP9	SAM	12/11/24 01:34	Not Use	Kareem	Not Ok
124	P4932-21	MBHHQ0	SAM	12/11/24 01:37	Not Use	Kareem	Not Ok
125	P4932-22	MBHHR0	SAM	12/11/24 01:41	Not Use	Kareem	Not Ok
126	P4933-05DL	MBHHR5	SAM	12/11/24 01:45	5X For Mn	Kareem	Confirms
127	CCV095	CCV095	CCV	12/11/24 01:49		Kareem	OK
128	CCB095	CCB095	CCB	12/11/24 01:52		Kareem	OK
129	P4933-18	MBHHX2	SAM	12/11/24 01:56		Kareem	OK
130	P4933-19	MBHHX3	SAM	12/11/24 02:00		Kareem	OK
131	P4933-20	MBHHX4	SAM	12/11/24 02:04		Kareem	OK
132	P4933-21	MBHHX4D	DUP	12/11/24 02:08		Kareem	OK
133	P4933-20L	MBHHX4L	SD	12/11/24 02:12		Kareem	OK

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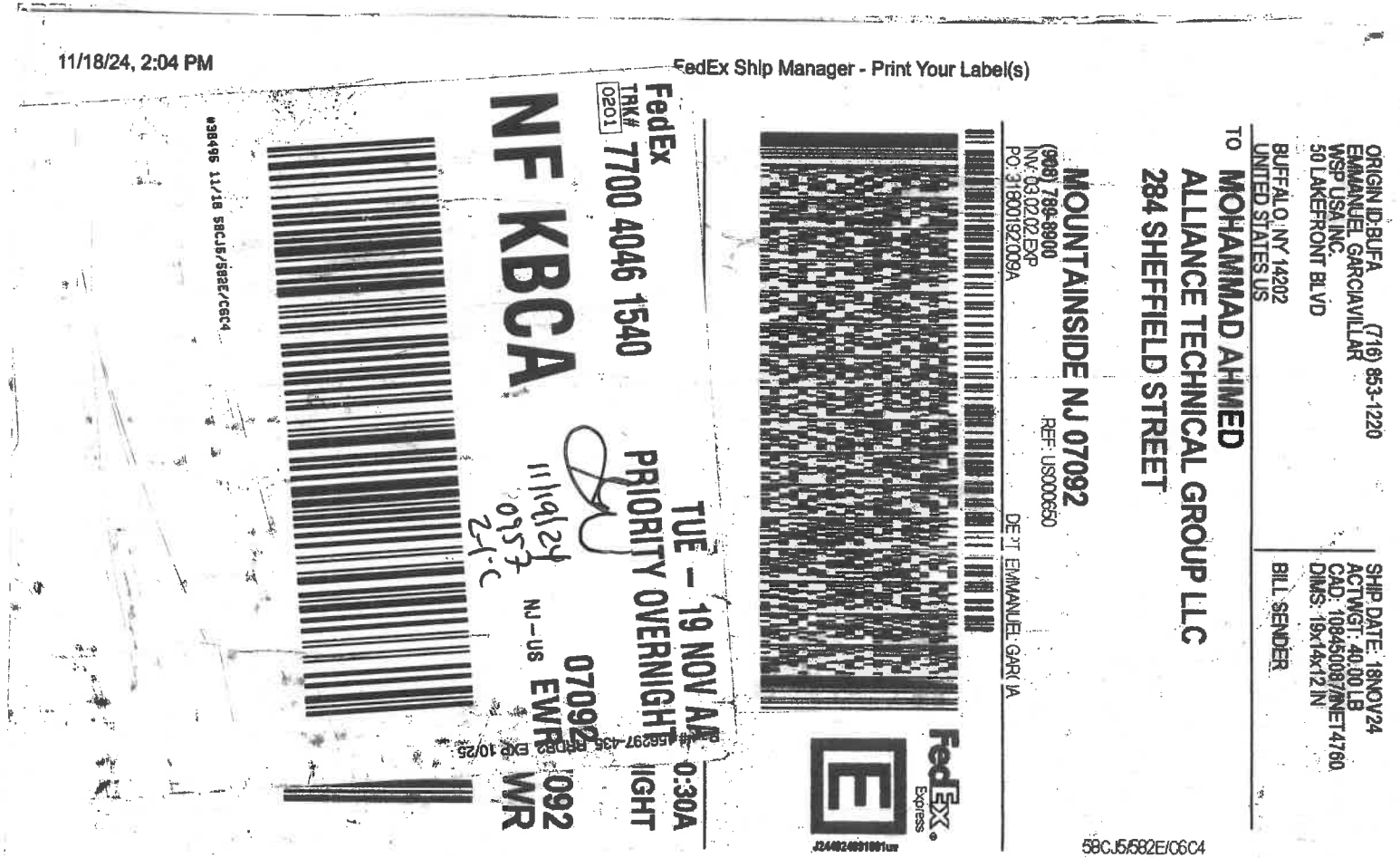
Instrument ID: P5

Daily Analysis Runlog For Sequence/QCBatch ID # LB133883

Review By	Sarabjit Jaswal	Review On	12/12/2024 8:19:04 AM
Supervise By	Kareem Khairalla	Supervise On	12/13/2024 7:24:03 PM

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	M5751,MP83567,M5819
LCS Standard	
Chk Standard	MP83513,MP83514

134	P4933-22	MBHHX4S	MS	12/11/24 02:15	MS Fail for Se(Below RL),Zn(1944.24ppb)	Kareem	OK
135	P4939-10A	MBHHW8A	PS	12/11/24 02:19	PS For Se 0.07ml mp83567	Kareem	OK
136	P4939-22DL	MBHHZ2	SAM	12/11/24 02:23	2X For Cu	Kareem	Confirms
137	P5007-15DL	MBHK00	SAM	12/11/24 02:27	2X For Ca	Kareem	Confirms
138	P5007-10A	MBHJZ7A	PS	12/11/24 02:31	PS For As 0.01ml mp83618	Kareem	OK
139	P5014-12A	MBHJY0A	PS	12/11/24 02:34	PS For As-0.015ml mp83618, Se-0.07ml mp83567	Kareem	OK
140	P5015-17A	MBHKQ6A	PS	12/11/24 02:38	PS For As,Se,Tl,Zn	Kareem	OK
141	P5015-05DL	MBHKK0	SAM	12/11/24 02:42	2X For Pb	Kareem	Confirms
142	P5015-08DL	MBHKK3	SAM	12/11/24 02:46	2X For Ca	Kareem	Confirms
143	P5015-09DL	MBHKK4	SAM	12/11/24 02:50	2X For Ca	Kareem	Confirms
144	P5015-14DL	MBHKQ2	SAM	12/11/24 02:54	2X For Ca	Kareem	Confirms
145	CCV096	CCV096	CCV	12/11/24 02:57		Kareem	OK
146	CCB096	CCB096	CCB	12/11/24 03:01		Kareem	OK



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Login Summary Report

Order ID :	P4912	Order Date :	11/19/2024 9:57:00 AM	Project Mgr :	Deepak
Client :	USEPA CLP SMO	Project :	51879	Report Type :	USEPA CLP
Contact :	Anita Kapadia	Receive Date :	11/19/2024 9:57:00 AM	EDD Type :	EPA CLP
Date Sign Off :	11/19/2024 11:55:19 AM				

Sample ID	Client ID	Matrix	Sampling Date	Test	Test Group	Method	TAT Days	Fax Due Date	HC Due Date
P4912-01	MBHHJ1	Solid	11/14/2024						
				Metals CLP Full		SFAM_AES	15	12/24/2024	12/24/2024
				Percent Solids		Chemtech -SOP	15	12/24/2024	12/24/2024
P4912-02	MBHHJ2	Solid	11/14/2024						
				Metals CLP Full		SFAM_AES	15	12/24/2024	12/24/2024
				Percent Solids		Chemtech -SOP	15	12/24/2024	12/24/2024
P4912-03	MBHHJ3	Solid	11/14/2024						
				Metals CLP Full		SFAM_AES	15	12/24/2024	12/24/2024
				Percent Solids		Chemtech -SOP	15	12/24/2024	12/24/2024
P4912-04	MBHHJ4	Solid	11/14/2024						
				Metals CLP Full		SFAM_AES	15	12/24/2024	12/24/2024
				Percent Solids		Chemtech -SOP	15	12/24/2024	12/24/2024
P4912-05	MBHHJ4D	Solid	11/14/2024						
				Metals CLP Full		SFAM_AES	15	12/24/2024	12/24/2024
				Percent Solids		Chemtech -SOP	15	12/24/2024	12/24/2024
P4912-06	MBHHJ4S	Solid	11/14/2024						
				Metals CLP Full		SFAM_AES	15	12/24/2024	12/24/2024
				Percent Solids		Chemtech -SOP	15	12/24/2024	12/24/2024
P4912-07	MBHHJ5	Solid	11/14/2024						
				Metals CLP Full		SFAM_AES	15	12/24/2024	12/24/2024
				Percent Solids		Chemtech -SOP	15	12/24/2024	12/24/2024
P4912-08	MBHHJ6	Solid	11/14/2024						
				Metals CLP Full		SFAM_AES	15	12/24/2024	12/24/2024
				Percent Solids		Chemtech -SOP	15	12/24/2024	12/24/2024
P4912-09	MBHHJ7	Solid	11/14/2024						
				Metals CLP Full		SFAM_AES	15	12/24/2024	12/24/2024
				Percent Solids		Chemtech -SOP	15	12/24/2024	12/24/2024
P4912-10	MBHHJ8	Solid	11/14/2024						
				Metals CLP Full		SFAM_AES	15	12/24/2024	12/24/2024
				Percent Solids		Chemtech -SOP	15	12/24/2024	12/24/2024

P4912-11	MBHHJ9	Solid	11/14/2024					
				Metals CLP Full	SFAM_AES	15	12/24/2024	12/24/2024
				Percent Solids	Chemtech -SOP	15	12/24/2024	12/24/2024
P4912-12	MBHHK0	Solid	11/14/2024					
				Metals CLP Full	SFAM_AES	15	12/24/2024	12/24/2024
				Percent Solids	Chemtech -SOP	15	12/24/2024	12/24/2024
P4912-13	MBHHK1	Solid	11/14/2024					
				Metals CLP Full	SFAM_AES	15	12/24/2024	12/24/2024
				Percent Solids	Chemtech -SOP	15	12/24/2024	12/24/2024
P4912-14	MBHHK2	Solid	11/14/2024					
				Metals CLP Full	SFAM_AES	15	12/24/2024	12/24/2024
				Percent Solids	Chemtech -SOP	15	12/24/2024	12/24/2024
P4912-15	MBHHK3	Solid	11/14/2024					
				Metals CLP Full	SFAM_AES	15	12/24/2024	12/24/2024
				Percent Solids	Chemtech -SOP	15	12/24/2024	12/24/2024
P4912-16	MBHHL8	Solid	11/14/2024					
				Metals CLP Full	SFAM_AES	15	12/24/2024	12/24/2024
				Percent Solids	Chemtech -SOP	15	12/24/2024	12/24/2024
P4912-17	MBHHL9	Solid	11/14/2024					
				Metals CLP Full	SFAM_AES	15	12/24/2024	12/24/2024
				Percent Solids	Chemtech -SOP	15	12/24/2024	12/24/2024
P4912-18	MBHHM0	Solid	11/14/2024					
				Metals CLP Full	SFAM_AES	15	12/24/2024	12/24/2024
				Percent Solids	Chemtech -SOP	15	12/24/2024	12/24/2024
P4912-19	MBHHM1	Solid	11/14/2024					
				Metals CLP Full	SFAM_AES	15	12/24/2024	12/24/2024
				Percent Solids	Chemtech -SOP	15	12/24/2024	12/24/2024
P4912-20	MBHHM2	Solid	11/14/2024					
				Metals CLP Full	SFAM_AES	15	12/24/2024	12/24/2024
				Percent Solids	Chemtech -SOP	15	12/24/2024	12/24/2024
P4912-21	MBHHM3	Solid	11/14/2024					
				Metals CLP Full	SFAM_AES	15	12/24/2024	12/24/2024
				Percent Solids	Chemtech -SOP	15	12/24/2024	12/24/2024
P4912-22	MBHHM4	Solid	11/14/2024		FD			
				Metals CLP Full	SFAM_AES	15	12/24/2024	12/24/2024
				Percent Solids	Chemtech -SOP	15	12/24/2024	12/24/2024

WORKLIST(Hardcopy Internal Chain)

WorkList Name : PB165139 **WorkList ID :** 185607 **Department :** Digestion **Date :** 11-20-2024 10:25:03

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Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P4912-01	MBHHJ1	Solid	Metals CLP Full	Cool 4 deg C	USEP01	C11	11/14/2024	SFAM_AES
P4912-02	MBHHJ2	Solid	Metals CLP Full	Cool 4 deg C	USEP01	C11	11/14/2024	SFAM_AES
P4912-03	MBHHJ3	Solid	Metals CLP Full	Cool 4 deg C	USEP01	C11	11/14/2024	SFAM_AES
P4912-04	MBHHJ4	Solid	Metals CLP Full	Cool 4 deg C	USEP01	C11	11/14/2024	SFAM_AES
P4912-05	MBHHJ4D	Solid	Metals CLP Full	Cool 4 deg C	USEP01	C11	11/14/2024	SFAM_AES
P4912-06	MBHHJ4S	Solid	Metals CLP Full	Cool 4 deg C	USEP01	C11	11/14/2024	SFAM_AES
P4912-07	MBHHJ5	Solid	Metals CLP Full	Cool 4 deg C	USEP01	C11	11/14/2024	SFAM_AES
P4912-08	MBHHJ6	Solid	Metals CLP Full	Cool 4 deg C	USEP01	C11	11/14/2024	SFAM_AES
P4912-09	MBHHJ7	Solid	Metals CLP Full	Cool 4 deg C	USEP01	C11	11/14/2024	SFAM_AES
P4912-10	MBHHJ8	Solid	Metals CLP Full	Cool 4 deg C	USEP01	C11	11/14/2024	SFAM_AES
P4912-11	MBHHJ9	Solid	Metals CLP Full	Cool 4 deg C	USEP01	C11	11/14/2024	SFAM_AES
P4912-12	MBHHK0	Solid	Metals CLP Full	Cool 4 deg C	USEP01	C11	11/14/2024	SFAM_AES
P4912-13	MBHHK1	Solid	Metals CLP Full	Cool 4 deg C	USEP01	C11	11/14/2024	SFAM_AES
P4912-14	MBHHK2	Solid	Metals CLP Full	Cool 4 deg C	USEP01	C11	11/14/2024	SFAM_AES
P4912-15	MBHHK3	Solid	Metals CLP Full	Cool 4 deg C	USEP01	C11	11/14/2024	SFAM_AES
P4912-16	MBHHL8	Solid	Metals CLP Full	Cool 4 deg C	USEP01	C11	11/14/2024	SFAM_AES
P4912-17	MBHHL9	Solid	Metals CLP Full	Cool 4 deg C	USEP01	C11	11/14/2024	SFAM_AES
P4912-18	MBHHM0	Solid	Metals CLP Full	Cool 4 deg C	USEP01	C11	11/14/2024	SFAM_AES
P4912-19	MBHHM1	Solid	Metals CLP Full	Cool 4 deg C	USEP01	C11	11/14/2024	SFAM_AES
P4912-20	MBHHM2	Solid	Metals CLP Full	Cool 4 deg C	USEP01	C11	11/14/2024	SFAM_AES
P4912-21	MBHHM3	Solid	Metals CLP Full	Cool 4 deg C	USEP01	C11	11/14/2024	SFAM_AES

Date/Time 11/20/24 12:00

Raw Sample Received by: JSP (Met dig)

Raw Sample Relinquished by: JM (SM)

Date/Time 11/20/24 13:00

Raw Sample Received by: JM (SM)

Raw Sample Relinquished by: JSP (Met dig)

WORKLIST(Hardcopy Internal Chain)

WorkList Name : PB165139 **WorkList ID :** 185607 **Department :** Digestion **Date :** 11-20-2024 10:25:03

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Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P4912-22	MBHHM4	Solid	Metals CLP Full	Cool 4 deg C	USEP01	C11	11/14/2024	SFAM_AES

Date/Time 11/20/24 12:00

Raw Sample Received by: ~~JSP (Met dig)~~

Raw Sample Relinquished by: JM (SM)

Date/Time 11/20/24 13:00

Raw Sample Received by: JM (SM)

Raw Sample Relinquished by: ~~JSP (Met dig)~~