SDG COVER PAGE

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

Lab Code: ACE Case No.: 51880 MA No.: SDG No.: E29T2

SOW No. : SFAM01.1

EPA Sample No.	Lab Sample Id	Analysis Method ICP-AES	ICP-MS	Mercury	Cyanide
E29S4	P4831-01		X	X	
E29S4D	P4831-02		X	X	
E29S4S	P4831-03		X	X	
E29T2	P4831-04		X	X	
E29T4	P4831-05		X	X	
E29W0	P4831-06		X	X	
E29W4	P4831-07		X	X	
E29W1	P4831-08		X	X	
E29W5	P4831-09		X	X	
E29R6	P4831-10		X	X	
E29S0	P4831-11		X	X	
E29S2	P4831-12		X	X	
E29S6	P4831-13		X	X	
E29W6	P4831-14		X	X	
E29W2	P4831-15		X	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 # E29T2

USEPA CLP COC (LAB COPY)
DateShipped: 11/12/2024
CarrierName: FedEx
AirbillNo: 779907243607

CHAIN OF CUSTODY RECORD

Case #: 51701

No: 5-111124-151348-0070
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
MW-01-11122024	E29R8	Ground Water/ M.Hartman	Grab	TVOA(21)	1407 (HCl) (4)	MW-01	11/12/2024 08:49	51880 PH 1.6
MW-04-11122024	E29S4	Ground Water/ M.Hartman	Grab	TVOA(21), ICP-MS+Hg(21)	1425 (HCl), 1429 (HNO3) (14)	MW-04	11/12/2024 10:35	PH 1.6 T Metals
MW-04-11122024-F	E29S5	Filtered Water/ M.Hartman	Grab	ICP-MS+Hg (diss)(21)	1430 (HNO3) (2)	MW-04	11/12/2024 10:35	PH 1.6
MW-08A-11112024	E29T2	Ground Water/ M.Hartman	Grab	TVOA(21), ICP-MS+Hg(21)	1449 (HCl), 1453 (HNO3) (5)	MW-08A	11/11/2024 16:20	PH 1.6 T. Metals SDG
MW-08A-11112024-F	E29T3	Filtered Water/ M.Hartman	Grab	ICP-MS+Hg (diss)(21)	1454 (HNO3) (1)	MW-08A	11/11/2024 16:20	PH 1.6
MW-08B-11112024	E29T4	Ground Water/ M.Hartman	Grab	TVOA(21), ICP-MS+Hg(21)	1455 (HCl), 1459 (HNO3) (5)	MW-08B	11/11/2024 14:38	PH 1.6 T. Metals
MW-08B-11112024-F	E29T5	Filtered Water/ M.Hartman	Grab	ICP-MS+Hg (diss)(21)	1460 (HNO3) (1)	MW-08B	11/11/2024 14:38	PH 1.6
TB-01-11112024	E29T8	Water/ M.Hartman	Grab	TVOA(21)	1467 (HCl) (4)	Trip Blank	11/11/2024 11:20	
FB-01-11112024	E29W0	Water/ M.Hartman	Grab	TVOA(21)	1469 (HCl) (4)	FB-01	11/11/2024 16:15	
FB-02-11122024	E29W1	Water/ M.Hartman	Grab	TVOA(21)	1474 (HCl) (4)	FB-02	11/12/2024 13:15	

Sample(s) to be used for Lab QC: MW-04-11122024 Tag 1425, MW-04-11122024 Tag 1429, MW-04-11122024-F Tag 1430 -
Special Instructions: SVOA+SIM (MA 3064.0) + 1,4-Dioxane SIM 244465 - 244466

Shipment for Case Complete? Y
Samples Transferred From Chain of Custody #

Analysis Key: TVOA=CLP Trace Volatiles, ICP-MS+Hg=CLP ICP-MS Metals+Hg, ICP-MS+Hg (diss)=CLP ICP-MS Metals+Hg (dissolved)

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
	Matt Barz EA	11/12/24 18:50	CL	1605 11-13-24	IR-Gun # 1 2.3-C Custody Seal intact Trip Blank present

68HERH20D0011

SDG # E29T2

USEPA CLP COC (LAB COPY)
DateShipped: 11/12/2024
CarrierName: FedEx
AirbillNo: 779907101300

CHAIN OF CUSTODY RECORD

Case #: 51701

No: 5-111124-162351-0071
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
FB-01-11112024	E29W0	Water/ M.Hartman	Grab	SVOA+SIM+1,4-D SIM(21), PEST(21), ARO(21), ICP-MS+Hg(21)	1470 (None), 1471 (None), 1472 (None), 1473 (HNO3) (7)	FB-01	11/11/2024 16:15	4 1 M pH 1.6

Special Instructions: SVOA+SIM (MA 3064.0) + 1,4-Dioxane SIM 244459 - 244460

Shipment for Case Complete? Y

Samples Transferred From Chain of Custody #

Analysis Key: SVOA+SIM+1,4-D SIM=CLP Semivolatiles+SIM, PEST=CLP Pesticides, ARO=CLP PCB Aroclors, ICP-MS+Hg=CLP ICP-MS Metals+Hg

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
	EA	11/12/24 18:00		1005 11-13-24	IR Gun # 1 2.3 - 5 Custody Seal Intact - Temp Blank present

68HERH20D0011 SDG # E29T2

USEPA CLP COC (LAB COPY)
DateShipped: 11/12/2024
CarrierName: FedEx
AirbillNo: 779907143269

CHAIN OF CUSTODY RECORD

Case #: 51701

No: 5-111124-172309-0073
Lab: Alliance Technical Group LLC
Lab Contact: Mohammad Ahmed
Lab Phone: 908-789-8900

4

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	For Lab Use Only
RB-01-11112024	E29W4	Water/ M.Hartman	Grab	SVOA+SIM+1,4-D SIM(21), PEST(21), ARO(21), ICP-MS+Hg(21)	1490 (None), 1491 (None), 1492 (None), 1493 (HNO3) (7)	RB-01	11/11/2024 17:15	S 1.M

Special Instructions: SVOA+SIM (MA 3064.0) + 1,4-Dioxane SIM 244455 - 244456

Shipment for Case Complete? Y
Samples Transferred From Chain of Custody #

Analysis Key: SVOA+SIM+1,4-D SIM=CLP Semivolatiles+SIM, PEST=CLP Pesticides, ARO=CLP PCB Aroclors, ICP-MS+Hg=CLP ICP-MS Metals+Hg

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
	Molly Roffen EA	11/12/24 18:00		1005 11-13-24	IR Gun #1 2.4°C Custody Seal Intact. Temp Blank present

68HERH20D0011

SDG # E29T2

USEPA CLP COC (LAB COPY)
DateShipped: 11/12/2024
CarrierName: FedEx
AirbillNo: 779907226876

CHAIN OF CUSTODY RECORD

Case #: 51701

No: 5-111224-134314-0077
Lab: Alliance Technical Group LLC
Lab Contact: Mohammad Ahmed
Lab Phone: 908-789-8900

5

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	For Lab Use Only
FB-02-11122024	E29W1	Water/ M.Hartman	Grab	SVOA+SIM+1,4-D SIM(21), PEST(21), ARO(21), ICP-MS+Hg(21)	1475 (None), 1476 (None), 1477 (None), 1478 (HNO3) (7)	FB-02	11/12/2024 13:15	pH 1-6 6TM

Special Instructions: SVOA+SIM (MA 3064.0) + 1,4-Dioxane SIM 244457- 244458

Shipment for Case Complete? Y
Samples Transferred From Chain of Custody #

Analysis Key: SVOA+SIM+1,4-D SIM=CLP Semivolatiles+SIM, PEST=CLP Pesticides, ARO=CLP PCB Aroclors, ICP-MS+Hg=CLP ICP-MS Metals+Hg

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
	EA	11/12/24 18:00		1005 11-13-24	IR-Gun # (2.4-C Custody Seal Intact Temp Blank present

68HERH20D0011

SDG # E29T2

USEPA CLP COC (LAB COPY)

DateShipped: 11/12/2024

CarrierName: FedEx

AirbillNo: 779907251888

CHAIN OF CUSTODY RECORD

Case #: 51701

No: 5-111224-153241-0079

Lab: Alliance Technical Group LLC

Lab Contact: Mohammad Ahmed

Lab Phone: 908-789-8900

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	For Lab Use Only
RB-02-11122024	E29W5	Water/ M.Hartman	Grab	SVOA+SIM+1,4-D SIM(21), PEST(21), ARO(21), ICP-MS+Hg(21)	1495 (None), 1496 (None), 1497 (None), 1498 (HNO3) (7)	RB-02	11/12/2024 18:32	pH 1.6

Special Instructions: SVOA+SIM (MA 3064.0) + 1,4-Dioxane SIM 244467 - 244468

Shipment for Case Complete? Y

Samples Transferred From Chain of Custody #

Analysis Key: SVOA+SIM+1,4-D SIM=CLP Semivolatiles+SIM, PEST=CLP Pesticides, ARO=CLP PCB Aroclors, ICP-MS+Hg=CLP ICP-MS Metals+Hg

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
	Mallory Parks EA	11/12/24 18:30		1005 11-13-24	Ice Chest #1 2.4 C
					Custody Seal Intact
					Temp Blank present

68HERH20D0011

SDG # E29T2

USEPA CLP COC (LAB COPY)
DateShipped: 11/13/2024
CarrierName: FedEx
AirbillNo: 779935518074

CHAIN OF CUSTODY RECORD

Case #: 51880

No: 5-111224-134442-0078
Lab: Alliance Technical Group LLC
Lab Contact: Mohammad Ahmed
Lab Phone: 908-789-8900

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	For Lab Use Only
DUP-MW-01-11132024	E29R6	Ground Water/ M.Hartman	Grab	TVOA(21), ICP-MS+Hg(21)	1401 (HCl), 1405 (HNO3) (5)	DUP-MW-01	11/13/2024 10:03	X T.M pH 1.6
DUP-MW-01-11132024-F	E29R7	Filtered Water/ M.Hartman	Grab	ICP-MS+Hg (diss)(21)	1406 (HNO3) (1)	DUP-MW-01	11/13/2024 10:03	
MW-02-11132024	E29S0	Ground Water/ M.Hartman	Grab	TVOA(21), ICP-MS+Hg(21)	1413 (HCl), 1417 (HNO3) (5)	MW-02	11/13/2024 12:26	X T.M pH 1.6
MW-02-11132024-F	E29S1	Filtered Water/ M.Hartman	Grab	ICP-MS+Hg (diss)(21)	1418 (HNO3) (1)	MW-02	11/13/2024 12:26	
MW-03-11132024	E29S2	Ground Water/ M.Hartman	Grab	TVOA(21), ICP-MS+Hg(21)	1419 (HCl), 1423 (HNO3) (5)	MW-03	11/13/2024 10:03	X T.M pH 1.6
MW-03-11132024-F	E29S3	Filtered Water/ M.Hartman	Grab	ICP-MS+Hg (diss)(21)	1424 (HNO3) (1)	MW-03	11/13/2024 10:03	
MW-05-11122024	E29S6	Ground Water/ M.Hartman	Grab	TVOA(21), ICP-MS+Hg(21)	1431 (HCl), 1435 (HNO3) (5)	MW-05	11/12/2024 18:04	X T.M pH 1.6
MW-05-11122024-F	E29S7	Filtered Water/ M.Hartman	Grab	ICP-MS+Hg (diss)(21)	1436 (HNO3) (1)	MW-05	11/12/2024 18:04	
MW-06-11122024	E29S8	Ground Water/ M.Hartman	Grab	TVOA(21)	1437 (HCl) (4)	MW-06	11/12/2024 16:42	
MW-07-11122024	E29T0	Ground Water/ M.Hartman	Grab	TVOA(21)	1443 (HCl) (4)	MW-07	11/12/2024 13:46	

Special Instructions: SVOA+SIM (MA 3064.0) + 1,4-Dioxane SIM 244483 - 244484

Shipment for Case Complete? N

Samples Transferred From Chain of Custody #

Analysis Key: TVOA=CLP Trace Volatiles, ICP-MS+Hg=CLP ICP-MS Metals+Hg, ICP-MS+Hg (diss)=CLP ICP-MS Metals+Hg (dissolved)

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
	Molly Rabb EA	11/13/24 18:00		945 11-14-24	IR-Gun #1 2.1°C Custody Seal Intact Temp Blank Present

68HERH20D0011

SDG # E29T2

USEPA CLP COC (LAB COPY)
DateShipped: 11/13/2024
CarrierName: FedEx
AirbillNo: 779935571855

CHAIN OF CUSTODY RECORD

Case #: 51880

No: 5-111324-135800-0086
Lab: Alliance Technical Group LLC
Lab Contact: Mohammad Ahmed
Lab Phone: 908-789-8900

8

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	For Lab Use Only
RB-03-11132024	E29W6	Water/ M. Hartman	Grab	SVOA+SIM+1,4-D SIM(21), PEST(21), ARO(21), ICP-MS+Hg(21)	1500 (None), 1501 (None), 1502 (None), 1503 (HNO3) (7)	RB-03	11/13/2024 13:40	T.M

pH 1.6

Special Instructions: SVOA+SIM (MA 3064.0) + 1,4-Dioxane SIM 244471

Shipment for Case Complete? N
Samples Transferred From Chain of Custody #

Analysis Key: SVOA+SIM+1,4-D SIM=CLP Semivolatiles+SIM, PEST=CLP Pesticides, ARO=CLP PCB Aroclors, ICP-MS+Hg=CLP ICP-MS Metals+Hg

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
	Molly Fobler EA	11/13/24 18:00		945 11-14-24	IR-Gun #1 2.4 C
					Custody Seal Intact
					Temp Blank present

68HERH20D0011

SDG # E29T2

USEPA CLP COC (LAB COPY)

DateShipped: 11/13/2024

CarrierName: FedEx

AirbillNo: 779935564750

CHAIN OF CUSTODY RECORD

Case #: 51880

No: 5-111324-135543-0085

Lab: Alliance Technical Group LLC

Lab Contact: Mohammad Ahmed

Lab Phone: 908-789-8900

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	For Lab Use Only
FB-03-11132024	E29W2	Water/ M. Hartman	Grab	SVOA+SIM+1,4-D SIM(21), PEST(21), ARO(21), ICP-MS+Hg(21)	1480 (None), 1481 (None), 1482 (None), 1483 (HNO3) (7)	FB-03	11/13/2024 13:30	TM pH 1.6

Special Instructions: SVOA+SIM (MA 3064.0) + 1,4-Dioxane SIM 244489 - 244490

Shipment for Case Complete? N

Samples Transferred From Chain of Custody #

Analysis Key: SVOA+SIM+1,4-D SIM=CLP Semivolatiles+SIM, PEST=CLP Pesticides, ARO=CLP PCB Aroclors, ICP-MS+Hg=CLP ICP-MS Metals+Hg

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
	Molly Potter EA	11/13/24 18:00		9:45 11-14-24	IR-Gun #1 2.1°C
					Custody Seal Intact
					Temp Blank present

FORM DC-1

SAMPLE LOG-IN SHEET

Lab Name : Alliance Technical Group, LLC		Page 1 of 9
Received By (Print Name) Casgrande Rena		Log-in Date 11/13/2024
Received By (Signature)		
Case Number 51880	SDG No. E29T2	MA No. N/A

Remarks:	
1. Custody Seal (s)	Present, Intact
2. Custody Seal Nos.	244465,244466
3. Traffic Reports/Chain Of Custody Records	Present
4. Airbill	Present
5. Airbill No. and Shipping Container ID No.	779907243607 1
6. Shipping Container Temperature Indicator Bottle	Present
7. Shipping Container Temperature	2.3 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	11/13/2024
12.Time Received	10:05

	EPA Sample #	Aqueous/ Water Sample pH	Corresponding		Remarks: Condition of Sample Shipment, etc.
			Sample Tag #	Assigned Lab #	
1	E29S4	1.6	1429	P4831-01	Intact
2	E29S4D	1.6	1429	P4831-02	Intact
3	E29S4S	1.6	1429	P4831-03	Intact
4	E29T2	1.6	1453	P4831-04	Intact
5	E29T4	1.6	1459	P4831-05	Intact
6	N/A	N/A	N/A	N/A	N/A
7	N/A	N/A	N/A	N/A	N/A
8	N/A	N/A	N/A	N/A	N/A
9	N/A	N/A	N/A	N/A	N/A
10	N/A	N/A	N/A	N/A	N/A
11	N/A	N/A	N/A	N/A	N/A
12	N/A	N/A	N/A	N/A	N/A
13	N/A	N/A	N/A	N/A	N/A
14	N/A	N/A	N/A	N/A	N/A
15	N/A	N/A	N/A	N/A	N/A
16	N/A	N/A	N/A	N/A	N/A
17	N/A	N/A	N/A	N/A	N/A
18	N/A	N/A	N/A	N/A	N/A
19	N/A	N/A	N/A	N/A	N/A
20	N/A	N/A	N/A	N/A	N/A
21	N/A	N/A	N/A	N/A	N/A
22	N/A	N/A	N/A	N/A	N/A
23	N/A	N/A	N/A	N/A	N/A

* Contact SMO and attach record of resolution

Reviewed By	Logbook No. N/A
Date 11/13/24	Logbook Page No. N/A

FORM DC-1

SAMPLE LOG-IN SHEET

Lab Name : Alliance Technical Group, LLC		Page 2 of 9
Received By (Print Name) Cassanova Rene		Log-in Date 11/13/2024
Received By (Signature)		
Case Number 51880	SDG No. E29T2	MA No. N/A

Remarks:	
1. Custody Seal (s)	Present, Intact
2. Custody Seal Nos.	244459,244460
3. Traffic Reports/Chain Of Custody Records	Present
4. Airbill	Present
5. Airbill No. and Shipping Container ID No.	779907101300 2
6. Shipping Container Temperature Indicator Bottle	Present
7. Shipping Container Temperature	2.3 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	11/13/2024
12.Time Received	10:05

	EPA Sample #	Aqueous/ Water Sample pH	Corresponding		Remarks: Condition of Sample Shipment, etc.
			Sample Tag #	Assigned Lab #	
1	E29W0	1.6	1473	P4831-06	Intact
2	N/A	N/A	N/A	N/A	N/A
3	N/A	N/A	N/A	N/A	N/A
4	N/A	N/A	N/A	N/A	N/A
5	N/A	N/A	N/A	N/A	N/A
6	N/A	N/A	N/A	N/A	N/A
7	N/A	N/A	N/A	N/A	N/A
8	N/A	N/A	N/A	N/A	N/A
9	N/A	N/A	N/A	N/A	N/A
10	N/A	N/A	N/A	N/A	N/A
11	N/A	N/A	N/A	N/A	N/A
12	N/A	N/A	N/A	N/A	N/A
13	N/A	N/A	N/A	N/A	N/A
14	N/A	N/A	N/A	N/A	N/A
15	N/A	N/A	N/A	N/A	N/A
16	N/A	N/A	N/A	N/A	N/A
17	N/A	N/A	N/A	N/A	N/A
18	N/A	N/A	N/A	N/A	N/A
19	N/A	N/A	N/A	N/A	N/A
20	N/A	N/A	N/A	N/A	N/A
21	N/A	N/A	N/A	N/A	N/A
22	N/A	N/A	N/A	N/A	N/A
23	N/A	N/A	N/A	N/A	N/A

* Contact SMO and attach record of resolution

Reviewed By	Logbook No. N/A
Date 11/13/24	Logbook Page No. N/A

FORM DC-1

SAMPLE LOG-IN SHEET

Lab Name : Alliance Technical Group, LLC		Page 3 of 8
Received By (Print Name) Dasparava Reva		Log-in Date 11/13/2024
Received By (Signature)		
Case Number 51880	SDG No. E29T2	MA No. N/A

Remarks:	
1. Custody Seal (s)	Present, Intact
2. Custody Seal Nos.	244455,244456
3. Traffic Reports/Chain Of Custody Records	Present
4. Airbill	Present
5. Airbill No. and Shipping Container ID No.	779907143269 3
6. Shipping Container Temperature Indicator Bottle	Present
7. Shipping Container Temperature	2.4 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	11/13/2024
12.Time Received	10:05

	EPA Sample #	Aqueous/ Water Sample pH	Corresponding Sample Tag #	Corresponding Assigned Lab #	Remarks: Condition of Sample Shipment, etc.
1	E29W4	1.6	1493	P4831-07	Intact
2	N/A	N/A	N/A	N/A	N/A
3	N/A	N/A	N/A	N/A	N/A
4	N/A	N/A	N/A	N/A	N/A
5	N/A	N/A	N/A	N/A	N/A
6	N/A	N/A	N/A	N/A	N/A
7	N/A	N/A	N/A	N/A	N/A
8	N/A	N/A	N/A	N/A	N/A
9	N/A	N/A	N/A	N/A	N/A
10	N/A	N/A	N/A	N/A	N/A
11	N/A	N/A	N/A	N/A	N/A
12	N/A	N/A	N/A	N/A	N/A
13	N/A	N/A	N/A	N/A	N/A
14	N/A	N/A	N/A	N/A	N/A
15	N/A	N/A	N/A	N/A	N/A
16	N/A	N/A	N/A	N/A	N/A
17	N/A	N/A	N/A	N/A	N/A
18	N/A	N/A	N/A	N/A	N/A
19	N/A	N/A	N/A	N/A	N/A
20	N/A	N/A	N/A	N/A	N/A
21	N/A	N/A	N/A	N/A	N/A
22	N/A	N/A	N/A	N/A	N/A
23	N/A	N/A	N/A	N/A	N/A

* Contact SMO and attach record of resolution

Reviewed By	Logbook No. N/A
Date 11/13/24	Logbook Page No. N/A

FORM DC-1

SAMPLE LOG-IN SHEET

Lab Name : Alliance Technical Group, LLC		Page 4 of 8
Received By (Print Name) Cassagnol Rene		Log-in Date 11/13/2024
Received By (Signature)		
Case Number 51880	SDG No. E29T2	MA No. N/A

Remarks:	
1. Custody Seal (s)	Present, Intact
2. Custody Seal Nos.	244457,244458
3. Traffic Reports/Chain Of Custody Records	Present
4. Airbill	Present
5. Airbill No. and Shipping Container ID No.	779907226876 4
6. Shipping Container Temperature Indicator Bottle	Present
7. Shipping Container Temperature	2.4 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	11/13/2024
12.Time Received	10:05

	EPA Sample #	Aqueous/ Water Sample pH	Corresponding		Remarks: Condition of Sample Shipment, etc.
			Sample Tag #	Assigned Lab #	
1	E29W1	1.6	1478	P4831-08	Intact
2	N/A	N/A	N/A	N/A	N/A
3	N/A	N/A	N/A	N/A	N/A
4	N/A	N/A	N/A	N/A	N/A
5	N/A	N/A	N/A	N/A	N/A
6	N/A	N/A	N/A	N/A	N/A
7	N/A	N/A	N/A	N/A	N/A
8	N/A	N/A	N/A	N/A	N/A
9	N/A	N/A	N/A	N/A	N/A
10	N/A	N/A	N/A	N/A	N/A
11	N/A	N/A	N/A	N/A	N/A
12	N/A	N/A	N/A	N/A	N/A
13	N/A	N/A	N/A	N/A	N/A
14	N/A	N/A	N/A	N/A	N/A
15	N/A	N/A	N/A	N/A	N/A
16	N/A	N/A	N/A	N/A	N/A
17	N/A	N/A	N/A	N/A	N/A
18	N/A	N/A	N/A	N/A	N/A
19	N/A	N/A	N/A	N/A	N/A
20	N/A	N/A	N/A	N/A	N/A
21	N/A	N/A	N/A	N/A	N/A
22	N/A	N/A	N/A	N/A	N/A
23	N/A	N/A	N/A	N/A	N/A

* Contact SMO and attach record of resolution

Reviewed By		Logbook No.	N/A
Date	11/13/24	Logbook Page No.	N/A

FORM DC-1

SAMPLE LOG-IN SHEET

Lab Name : Alliance Technical Group, LLC		Page 5 of 9
Received By (Print Name) Cassandra Perez		Log-in Date 11/13/2024
Received By (Signature)		
Case Number 51880	SDG No. E29T2	MA No. N/A

Remarks:	
1. Custody Seal (s)	Present, Intact
2. Custody Seal Nos.	244467,244468
3. Traffic Reports/Chain Of Custody Records	Present
4. Airbill	Present
5. Airbill No. and Shipping Container ID No.	779907251888 5
6. Shipping Container Temperature Indicator Bottle	Present
7. Shipping Container Temperature	2.4 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	11/13/2024
12.Time Received	10:05

	EPA Sample #	Aqueous/ Water Sample pH	Corresponding		Remarks: Condition of Sample Shipment, etc.
			Sample Tag #	Assigned Lab #	
1	E29W5	1.6	1498	P4831-09	Intact
2	N/A	N/A	N/A	N/A	N/A
3	N/A	N/A	N/A	N/A	N/A
4	N/A	N/A	N/A	N/A	N/A
5	N/A	N/A	N/A	N/A	N/A
6	N/A	N/A	N/A	N/A	N/A
7	N/A	N/A	N/A	N/A	N/A
8	N/A	N/A	N/A	N/A	N/A
9	N/A	N/A	N/A	N/A	N/A
10	N/A	N/A	N/A	N/A	N/A
11	N/A	N/A	N/A	N/A	N/A
12	N/A	N/A	N/A	N/A	N/A
13	N/A	N/A	N/A	N/A	N/A
14	N/A	N/A	N/A	N/A	N/A
15	N/A	N/A	N/A	N/A	N/A
16	N/A	N/A	N/A	N/A	N/A
17	N/A	N/A	N/A	N/A	N/A
18	N/A	N/A	N/A	N/A	N/A
19	N/A	N/A	N/A	N/A	N/A
20	N/A	N/A	N/A	N/A	N/A
21	N/A	N/A	N/A	N/A	N/A
22	N/A	N/A	N/A	N/A	N/A
23	N/A	N/A	N/A	N/A	N/A

* Contact SMO and attach record of resolution

Reviewed By	Logbook No. N/A
Date 11/13/24	Logbook Page No. N/A

FORM DC-1

SAMPLE LOG-IN SHEET

Lab Name : Alliance Technical Group, LLC		Page 6 of 8
Received By (Print Name) Cosserat Rena		Log-in Date 11/14/2024
Received By (Signature)		
Case Number 51880	SDG No. E29T2	MA No. N/A

Remarks:	
1. Custody Seal (s)	Present, Intact
2. Custody Seal Nos.	244483,244484
3. Traffic Reports/Chain Of Custody Records	Present
4. Airbill	Present
5. Airbill No. and Shipping Container ID No.	779935518074 6
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	11/14/2024
12.Time Received	09:45

	EPA Sample #	Aqueous/ Water Sample pH	Corresponding Sample Tag #	Corresponding Assigned Lab #	Remarks: Condition of Sample Shipment, etc.
1	E29R6	1.6	1405	P4831-10	Intact
2	E29S0	1.6	1417	P4831-11	Intact
3	E29S2	1.6	1423	P4831-12	Intact
4	E29S6	1.6	1435	P4831-13	Intact
5	N/A	N/A	N/A	N/A	N/A
6	N/A	N/A	N/A	N/A	N/A
7	N/A	N/A	N/A	N/A	N/A
8	N/A	N/A	N/A	N/A	N/A
9	N/A	N/A	N/A	N/A	N/A
10	N/A	N/A	N/A	N/A	N/A
11	N/A	N/A	N/A	N/A	N/A
12	N/A	N/A	N/A	N/A	N/A
13	N/A	N/A	N/A	N/A	N/A
14	N/A	N/A	N/A	N/A	N/A
15	N/A	N/A	N/A	N/A	N/A
16	N/A	N/A	N/A	N/A	N/A
17	N/A	N/A	N/A	N/A	N/A
18	N/A	N/A	N/A	N/A	N/A
19	N/A	N/A	N/A	N/A	N/A
20	N/A	N/A	N/A	N/A	N/A
21	N/A	N/A	N/A	N/A	N/A
22	N/A	N/A	N/A	N/A	N/A
23	N/A	N/A	N/A	N/A	N/A

* Contact SMO and attach record of resolution

Reviewed By	Logbook No. N/A
Date 11/14/24	Logbook Page No. N/A

FORM DC-1

SAMPLE LOG-IN SHEET

Lab Name : Alliance Technical Group, LLC		Page 7 of 8
Received By (Print Name) Breanna Lee		Log-in Date **11/14/2024**
Received By (Signature)		
Case Number 51880	SDG No. E29T2	MA No. N/A

Remarks:	
1. Custody Seal (s)	Present, Intact
2. Custody Seal Nos.	~~244465,244466~~ 244471
3. Traffic Reports/Chain Of Custody Records	Present
4. Airbill	Present
5. Airbill No. and Shipping Container ID No.	779935571855 7
6. Shipping Container Temperature Indicator Bottle	Present
7. Shipping Container Temperature	2.4 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	11/14/2024
12.Time Received	09:45

	EPA Sample #	Aqueous/ Water Sample pH	Corresponding Sample Tag #	Corresponding Assigned Lab #	Remarks: Condition of Sample Shipment, etc.
1	E29W6	1.6	1503	P4831-14	Intact
2	N/A	N/A	N/A	N/A	N/A
3	N/A	N/A	N/A	N/A	N/A
4	N/A	N/A	N/A	N/A	N/A
5	N/A	N/A	N/A	N/A	N/A
6	N/A	N/A	N/A	N/A	N/A
7	N/A	N/A	N/A	N/A	N/A
8	N/A	N/A	N/A	N/A	N/A
9	N/A	N/A	N/A	N/A	N/A
10	N/A	N/A	N/A	N/A	N/A
11	N/A	N/A	N/A	N/A	N/A
12	N/A	N/A	N/A	N/A	N/A
13	N/A	N/A	N/A	N/A	N/A
14	N/A	N/A	N/A	N/A	N/A
15	N/A	N/A	N/A	N/A	N/A
16	N/A	N/A	N/A	N/A	N/A
17	N/A	N/A	N/A	N/A	N/A
18	N/A	N/A	N/A	N/A	N/A
19	N/A	N/A	N/A	N/A	N/A
20	N/A	N/A	N/A	N/A	N/A
21	N/A	N/A	N/A	N/A	N/A
22	N/A	N/A	N/A	N/A	N/A
23	N/A	N/A	N/A	N/A	N/A

* Contact SMO and attach record of resolution

Reviewed By	Logbook No. N/A
Date 11/14/24	Logbook Page No. N/A

FORM DC-1

SAMPLE LOG-IN SHEET

Lab Name : Alliance Technical Group, LLC		Page 8 of 9
Received By (Print Name) Lorraine Reis		Log-in Date 11/14/2024
Received By (Signature)		
Case Number 51880	SDG No. E29T2	MA No. N/A

Remarks:	
1. Custody Seal (s)	Present, Intact
2. Custody Seal Nos.	244489,244490
3. Traffic Reports/Chain Of Custody Records	Present
4. Airbill	Present
5. Airbill No. and Shipping Container ID No.	779935564750 8
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	11/14/2024
12.Time Received	09:45

	EPA Sample #	Aqueous/ Water Sample pH	Corresponding		Remarks: Condition of Sample Shipment, etc.
			Sample Tag #	Assigned Lab #	
1	E29W2	1.6	1483	P4831-15	Intact
2	N/A	N/A	N/A	N/A	N/A
3	N/A	N/A	N/A	N/A	N/A
4	N/A	N/A	N/A	N/A	N/A
5	N/A	N/A	N/A	N/A	N/A
6	N/A	N/A	N/A	N/A	N/A
7	N/A	N/A	N/A	N/A	N/A
8	N/A	N/A	N/A	N/A	N/A
9	N/A	N/A	N/A	N/A	N/A
10	N/A	N/A	N/A	N/A	N/A
11	N/A	N/A	N/A	N/A	N/A
12	N/A	N/A	N/A	N/A	N/A
13	N/A	N/A	N/A	N/A	N/A
14	N/A	N/A	N/A	N/A	N/A
15	N/A	N/A	N/A	N/A	N/A
16	N/A	N/A	N/A	N/A	N/A
17	N/A	N/A	N/A	N/A	N/A
18	N/A	N/A	N/A	N/A	N/A
19	N/A	N/A	N/A	N/A	N/A
20	N/A	N/A	N/A	N/A	N/A
21	N/A	N/A	N/A	N/A	N/A
22	N/A	N/A	N/A	N/A	N/A
23	N/A	N/A	N/A	N/A	N/A

* Contact SMO and attach record of resolution

Reviewed By	Logbook No. N/A
Date 11/14/24	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.	**51880**	SDG NO.	**E29T2**
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	TO	CHECK LAB	REGION
1 . SDG Cover Page	1	1	✓	
2 . Traffic Report/Chain of Custody Record(s)	2	9	✓	
3 . Sample Log-In Sheet (DC-1)	10	17	✓	
4 . CSF Inventory Sheet (DC-2)	18	20	✓	
5 . SDG Narrative	21	24	✓	
6 . Communication Logs	25	39	✓	
7 . Percent Solids Log	NA	NA	✓	
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	NA	NA	✓	
9 . Instrument raw data by instrument in analysis order	NA	NA	✓	
Other Data				
10 . Standard and Reagent Preparation Logs	NA	NA	✓	
11 . Original Preparation and Cleanup forms or copies of Preparation and Cleanup Logbooks	NA	NA	✓	
12 . Original Analysis or Instrument Run forms or copies of Analysis or Instrument Logbooks	NA	NA	✓	
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	40	52	✓	
18 . Instrument raw data by instrument in analysis order	53	583	✓	
Other Data				
19 . Standard and Reagent Preparation Logs	584	723	✓	
20 . Original Preparation and Cleanup forms or copies of Preparation and Cleanup Logbooks	724	725	✓	
21 . Original Analysis or Instrument Run forms or copies of Analysis or Instrument Logbooks	726	730	✓	
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	731	743	✓	
27. Instrument raw data by instrument in analysis order	744	746	✓	
Other Data				
28. Standard and Reagent Preparation Logs	747	777	✓	
29. Original Preparation and Cleanup forms or copies of Preparation and Cleanup Logbooks	778	779	✓	
30. Original Analysis or Instrument Run forms or copies of Analysis or Instrument Logbooks	780	783	✓	
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 8)	784	791	✓	
Sample Tags	NA	NA	✓	
Sample Log-In Sheet (Lab)	792	793	✓	
45. Misc. Shipping/Receiving Records (list all individual records)				
	NA	NA	✓	
46. Internal Lab Sample Transfer Records and Tracking Sheets (describe or list)				
	794	796	✓	
47. Other Records and related Communication Logs (describe or list)				
	NA	NA	✓	

48. Comments:

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

284 Sheffield Street
Mountainside, NJ 07092

SDG NARRATIVE

USEPA
SDG # E29T2
CASE # 51880
CONTRACT # 68HERH20D0011
SOW# SFAM01.1
LAB NAME: Alliance Technical Group, LLC
LAB CODE: ACE
LAB ORDER ID # P4831

A. Number of Samples and Date of Receipt

13 Water samples were delivered to the laboratory intact on 11/13/2024, 11/14/2024.

B. Parameters

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

C. Cooler Temp

Indicator Bottle**: Presence/**Absence

Cooler: 2.3°C, 2.4°C, 2.1°C

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

Issue: The COC lists the Case number 51701 and the sample containers list Case number 51880.

E. Corrective Action taken for above:

Resolution: Per Region 5, The correct Case number is 51880 and a revised COC has been provided. Please 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.

G. Calculation:

Calculation for ICP-MS Water Sample:

Concentration or Result (µg/L) = C x $\frac{Vf}{Vi}$ x DF

Where,

C = Instrument value in ppb (The average of all replicate integrations)
Vf = Final digestion volume (mL)
Vi = Initial aliquot amount (mL) (Sample amount taken in prep)
DF = Dilution Factor

Example Calculation For Sample E29S4 For Antimony:

If C = 0.22 ppb
Vf = 50 ml
Vi = 50 ml
DF = 1

Concentration or Result (µg/L) = $0.22 \times \frac{50}{50} \times 1$

= 0.22 µg/L

= 0.22 µg/L (Reported Result with Signification)

Calculation for Hg Water Sample:

Concentration or Result (µg/L) = C x DF

Where,

C = Instrument response in µg/L from the calibration curve.
DF = Dilution Factor

Example Calculation For Sample E29W0:

If C = 0.0473 ppb
DF = 1

Concentration or Result (µg/L) = 0.0473 x 1

= 0.0473 µg/L

= 0.047 µg/L (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. Duplicate sample did meet requirements except for Manganese. Serial Dilution did meet requirements.

284 Sheffield Street
Mountainside, NJ 07092

Collision cell is being used to remove potential interferences. The analytes Na, Mg, Al, K, V, Cr, Mn, Fe, Co, Ni, Cu, Zn, As are being analyzed with collision cell and analytes Be, B, Ca, Ti, Se, Sr, Zr, Mo, Ag, Cd, Sn, Sb, Ba, Tl, Pb, U are being analyzed with Non-Collision Cell. Helium gas is used for the Collision Cell analysis.

Internal Standard Association for ICP-MS analysis.

Target Analyte	Associated Internal Standard
Aluminum	45Sc
Antimony	159Tb
Arsenic	89Y
Barium	159Tb
Beryllium	6Li
Cadmium	159Tb
Calcium	45Sc
Chromium	45Sc
Cobalt	45Sc
Copper	45Sc
Iron	45Sc
Lead	209Bi
Magnesium	45Sc
Manganese	45Sc
Nickel	45Sc
Potassium	45Sc
Selenium	89Y
Silver	159Tb
Sodium	45Sc

284 Sheffield Street
Mountainside, NJ 07092

Thallium	209Bi
Vanadium	45Sc
Zinc	45Sc

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

From: Zafar, Tasmia (NE) <Tasmia.Zafar@gdit.com>
Sent: Wednesday, November 13, 2024 3:06 PM
To: Deepak Parmar; Sohil Jodhani; Mohammad Ahmed
Cc: R5RSCC
Subject: Region 05 | Case 51880 | Lab ACE | Issue Discrepancies with tags, jars, and/or COC | FINAL
Attachments: SKM_95824111311190.pdf; COCs_20241112_revised.pdf

EXTERNAL EMAIL - This email was sent by a person from outside your organization. Exercise caution when clicking links, opening attachments or taking further action, before validating its authenticity.

Secured by Check Point

Good afternoon,

Issue: The COC lists the Case number 51701 and the sample containers list Case number 51880.
Resolution: Per Region 5, The correct Case number is 51880 and a revised COC has been provided. Please note the issue in the SDG Narrative and proceed with the analysis of the samples.

Please note that the laboratory may contact the appropriate CLP PM should any defects need to be waived for this issue.

Best Regards,
Tasmia Zafar
Associate Environmental Analyst
CLP QSS Coordinator – EPA Regions 5 & 6

T: (919) 768-4086
tasmia.zafar@gdit.com
15036 Conference Center Drive
Chantilly, VA 20151
www.gdit.com

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Leave Alert: None

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From: R5RSCC <R5RSCC@epa.gov>
Sent: Wednesday, November 13, 2024 2:19 PM
To: Zafar, Tasmia (NE) <Tasmia.Zafar@gdit.com>
Subject: RE: X Sample Shipment - 12 November 2024

This Message Is From an External Sender

Please use caution with links, attachments, and any requests for credentials.

Hi Tasmia,

Yes please.

Thanks,
Amanda

Amanda Wroble, Ph.D.
Metals Chemist/Group Leader & Regional Sample Control Coordinator (RSCC)/CRL Sample Coordinator
USEPA Region 5 LSASD/AIMB
Chicago Regional Laboratory
536 S. Clark St. LAB-10C, 10th Floor
Chicago, IL 60605
(312) 353-0375

From: Zafar, Tasmia (NE) <Tasmia.Zafar@gdit.com>
Sent: Wednesday, November 13, 2024 1:01 PM
To: R5RSCC <R5RSCC@epa.gov>
Subject: FW: X Sample Shipment - 12 November 2024
Importance: High

Caution: This email originated from outside EPA, please exercise additional caution when deciding whether to open attachments or click on provided links.

Good afternoon,

I would like to confirm the revised COC can be sent to the laboratory with the correct Case number 51880.

Best Regards,
Tasmia Zafar
Associate Environmental Analyst
CLP QSS Coordinator – EPA Regions 5 & 6

T: (919) 768-4086
tasmia.zafar@gdit.com
15036 Conference Center Drive
Chantilly, VA 20151
www.gdit.com

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Leave Alert: None

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From: Hack, Emily <ehack@eaest.com>
Sent: Wednesday, November 13, 2024 1:27 PM
To: R5RSCC <R5RSCC@epa.gov>; Zafar, Tasmia (NE) <Tasmia.Zafar@gdit.com>
Cc: Robles, Molly <mrobles@eaest.com>; Ogbebor, Osaguona <oogbebor@eaest.com>; McCarthy, Emily <emccarthy@eaest.com>
Subject: FW: X Sample Shipment - 12 November 2024
Importance: High

This Message Is From an External Sender

Please use caution with links, attachments, and any requests for credentials.

The attached COCs dated 20241112 were included in yesterday's shipment from X. However, these COCs contained the case number from the previous event. The COCs have been revised with the correct case number (51880) and are also attached to this email. Please, let me know if you have any questions or need anything else from us at this time.

Apologies for any confusion.

Thanks,

Emily Hack
Data Scientist
EA Engineering, Science, and Technology, Inc., PBC
225 Schilling Circle, Suite 400
Hunt Valley MD, 21031-1800
Direct: (410) 329-5149

From: Deepak Parmar Deepak.Parmar@alliancetg.com
Sent: Wednesday, November 13, 2024 12:49 PM
To: Zafar, Tasmia (NE) Tasmia.Zafar@gdit.com
Cc: Sohil Jodhani Sohil.Jodhani@AllianceTG.com
Subject: Region 05 | Case | Lab ACE | Issue Discrepancies with tags, jars, and/or COC

This Message Is From an External Sender

Please use caution with links, attachments, and any requests for credentials.

Good afternoon,

The COC lists the Case number 51701 and all sample container listed case number as 51880. So please confirm case number ?

Please see attachment for your reference.

Thanks & Regards,

Deepak Parmar
QA/QC
An Alliance Technical Group Company
Main: 908-789-8900
Direct: 908-728-3154
Address: 284 Sheffield St, Ste 1, Mountainside, NJ 07092
www.alliancetg.com

USEPA CLP COC (LAB COPY)

CHAIN OF CUSTODY RECORD

No: 5-111124-151029-0068

DateShipped: 11/12/2024

CarrierName: FedEx

AirbillNo: 779906913880

Case #: 51880

Lab: Alliance Technical Group LLC

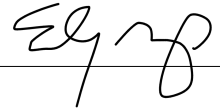
Lab Contact: Mohammad Ahmed

Lab Phone: 908-789-8900

29

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	For Lab Use Only
MW-08B-11112024	E29T4	Ground Water/ M.Hartman	Grab	SVOA+SIM+1,4-D SIM(21), PEST(21), ARO(21)	1456 (None), 1457 (None), 1458 (None) (7)	MW-08B	11/11/2024 14:38	

Special Instructions: SVOA+SIM (MA 3064.0) + 1,4-Dioxane SIM	**Shipment for Case Complete? N**
	Samples Transferred From Chain of Custody #
Analysis Key: SVOA+SIM+1,4-D SIM=CLP Semivolatiles+SIM, PEST=CLP Pesticides, ARO=CLP PCB Aroclors	

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
		11/13/24			

USEPA CLP COC (LAB COPY)

CHAIN OF CUSTODY RECORD

No: 5-111124-151348-0070

DateShipped: 11/12/2024

CarrierName: FedEx

AirbillNo: 779907243607

Case #: 51880

Lab: Alliance Technical Group LLC

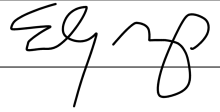
Lab Contact: Mohammad Ahmed

Lab Phone: 908-789-8900

30

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	For Lab Use Only
MW-01-11122024	E29R8	Ground Water/ M.Hartman	Grab	TVOA(21)	1407 (HCl) (4)	MW-01	11/12/2024 08:49	
MW-04-11122024	E29S4	Ground Water/ M.Hartman	Grab	TVOA(21), ICP-MS+Hg(21)	1425 (HCl), 1429 (HNO3) (14)	MW-04	11/12/2024 10:35	
MW-04-11122024-F	E29S5	Filtered Water/ M.Hartman	Grab	ICP-MS+Hg (diss)(21)	1430 (HNO3) (2)	MW-04	11/12/2024 10:35	
MW-08A-11112024	E29T2	Ground Water/ M.Hartman	Grab	TVOA(21), ICP-MS+Hg(21)	1449 (HCl), 1453 (HNO3) (5)	MW-08A	11/11/2024 16:20	
MW-08A-11112024-F	E29T3	Filtered Water/ M.Hartman	Grab	ICP-MS+Hg (diss)(21)	1454 (HNO3) (1)	MW-08A	11/11/2024 16:20	
MW-08B-11112024	E29T4	Ground Water/ M.Hartman	Grab	TVOA(21), ICP-MS+Hg(21)	1455 (HCl), 1459 (HNO3) (5)	MW-08B	11/11/2024 14:38	
MW-08B-11112024-F	E29T5	Filtered Water/ M.Hartman	Grab	ICP-MS+Hg (diss)(21)	1460 (HNO3) (1)	MW-08B	11/11/2024 14:38	
TB-01-11112024	E29T8	Water/ M.Hartman	Grab	TVOA(21)	1467 (HCl) (4)	Trip Blank	11/11/2024 11:20	
FB-01-11112024	E29W0	Water/ M.Hartman	Grab	TVOA(21)	1469 (HCl) (4)	FB-01	11/11/2024 16:15	
FB-02-11122024	E29W1	Water/ M.Hartman	Grab	TVOA(21)	1474 (HCl) (4)	FB-02	11/12/2024 13:15	

Sample(s) to be used for Lab QC: MW-04-11122024 Tag 1425, MW-04-11122024 Tag 1429, MW-04-11122024-F Tag 1430 - Special Instructions: SVOA+SIM (MA 3064.0) + 1,4-Dioxane SIM	**Shipment for Case Complete? N**
	Samples Transferred From Chain of Custody #
Analysis Key: TVOA=CLP Trace Volatiles, ICP-MS+Hg=CLP ICP-MS Metals+Hg, ICP-MS+Hg (diss)=CLP ICP-MS Metals+Hg (dissolved)	

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
		11/13/2024			

USEPA CLP COC (LAB COPY)

DateShipped: 11/12/2024

CarrierName: FedEx

AirbillNo: 779907243607

CHAIN OF CUSTODY RECORD

Case #: 51880

No: 5-111124-151348-0070

Lab: Alliance Technical Group LLC

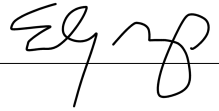
Lab Contact: Mohammad Ahmed

Lab Phone: 908-789-8900

31

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	For Lab Use Only
RB-01-11112024	E29W4	Water/ M.Hartman	Grab	TVOA(21)	1489 (HCl) (4)	RB-01	11/11/2024 17:15	
RB-02-11122024	E29W5	Water/ M.Hartman	Grab	TVOA(21)	1494 (HCl) (4)	RB-02	11/12/2024 18:32	

Special Instructions: SVOA+SIM (MA 3064.0) + 1,4-Dioxane SIM	**Shipment for Case Complete? N**
	Samples Transferred From Chain of Custody #
Analysis Key: TVOA=CLP Trace Volatiles, ICP-MS+Hg=CLP ICP-MS Metals+Hg, ICP-MS+Hg (diss)=CLP ICP-MS Metals+Hg (dissolved)	

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
		11/13/2024			

USEPA CLP COC (LAB COPY)

DateShipped: 11/12/2024

CarrierName: FedEx

AirbillNo: 779907101300

CHAIN OF CUSTODY RECORD

Case #: 51880

No: 5-111124-162351-0071

Lab: Alliance Technical Group LLC

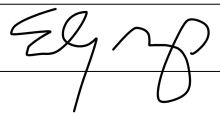
Lab Contact: Mohammad Ahmed

Lab Phone: 908-789-8900

32

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	For Lab Use Only
FB-01-11112024	E29W0	Water/ M.Hartman	Grab	SVOA+SIM+1,4-D SIM(21), PEST(21), ARO(21), ICP-MS+Hg(21)	1470 (None), 1471 (None), 1472 (None), 1473 (HNO3) (7)	FB-01	11/11/2024 16:15	

Special Instructions: SVOA+SIM (MA 3064.0) + 1,4-Dioxane SIM	**Shipment for Case Complete? N**
	Samples Transferred From Chain of Custody #
Analysis Key: SVOA+SIM+1,4-D SIM=CLP Semivolatiles+SIM, PEST=CLP Pesticides, ARO=CLP PCB Aroclors, ICP-MS+Hg=CLP ICP-MS Metals+Hg	

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
		11/13/2024			

USEPA CLP COC (LAB COPY)

CHAIN OF CUSTODY RECORD

No: 5-111124-163244-0072

DateShipped: 11/12/2024

CarrierName: FedEx

AirbillNo: 779907127777

Case #: 51880

Lab: Alliance Technical Group LLC

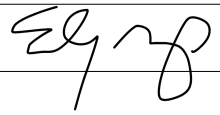
Lab Contact: Mohammad Ahmed

Lab Phone: 908-789-8900

33

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	For Lab Use Only
MW-08A-11112024	E29T2	Ground Water/ M.Hartman	Grab	SVOA+SIM+1,4-D SIM(21), PEST(21), ARO(21)	1450 (None), 1451 (None), 1452 (None) (7)	MW-08A	11/11/2024 16:20	

Special Instructions: SVOA+SIM (MA 3064.0) + 1,4-Dioxane SIM	**Shipment for Case Complete? N**
	Samples Transferred From Chain of Custody #
Analysis Key: SVOA+SIM+1,4-D SIM=CLP Semivolatiles+SIM, PEST=CLP Pesticides, ARO=CLP PCB Aroclors	

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
		11/13/2024			

USEPA CLP COC (LAB COPY)

CHAIN OF CUSTODY RECORD

No: 5-111124-172309-0073

DateShipped: 11/12/2024

CarrierName: FedEx

AirbillNo: 779907143269

Case #: 51880

Lab: Alliance Technical Group LLC

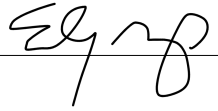
Lab Contact: Mohammad Ahmed

Lab Phone: 908-789-8900

34

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	For Lab Use Only
RB-01-11112024	E29W4	Water/ M.Hartman	Grab	SVOA+SIM+1,4-D SIM(21), PEST(21), ARO(21), ICP-MS+Hg(21)	1490 (None), 1491 (None), 1492 (None), 1493 (HNO3) (7)	RB-01	11/11/2024 17:15	

Special Instructions: SVOA+SIM (MA 3064.0) + 1,4-Dioxane SIM	**Shipment for Case Complete? N**
	Samples Transferred From Chain of Custody #
Analysis Key: SVOA+SIM+1,4-D SIM=CLP Semivolatiles+SIM, PEST=CLP Pesticides, ARO=CLP PCB Aroclors, ICP-MS+Hg=CLP ICP-MS Metals+Hg	

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
		11/13/2024			

USEPA CLP COC (LAB COPY)

DateShipped: 11/12/2024

CarrierName: FedEx

AirbillNo: 779907161978

CHAIN OF CUSTODY RECORD

Case #: 51880

No: 5-111224-124914-0074

Lab: Alliance Technical Group LLC

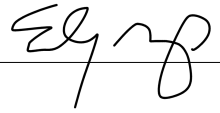
Lab Contact: Mohammad Ahmed

Lab Phone: 908-789-8900

35

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	For Lab Use Only
MW-04-11122024	E29S4	Ground Water/ M.Hartman	Grab	SVOA+SIM+1,4-D SIM(21)	1426 (None) (7)	MW-04	11/12/2024 10:35	

Sample(s) to be used for Lab QC: MW-04-11122024 Tag 1426 - Special Instructions: SVOA+SIM (MA 3064.0) + 1,4-Dioxane SIM	**Shipment for Case Complete? N**
	Samples Transferred From Chain of Custody #
Analysis Key: SVOA+SIM+1,4-D SIM=CLP Semivolatiles+SIM	

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
		11/13/2024			

USEPA CLP COC (LAB COPY)

CHAIN OF CUSTODY RECORD

No: 5-111224-125027-0075

DateShipped: 11/12/2024
CarrierName: FedEx
AirbillNo: 779907170825

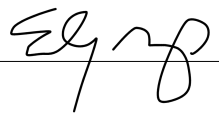
Case #: 51880

Lab: Alliance Technical Group LLC
Lab Contact: Mohammad Ahmed
Lab Phone: 908-789-8900

36

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	For Lab Use Only
MW-04-11122024	E29S4	Ground Water/ M.Hartman	Grab	PEST(21), SVOA+SIM+1,4-D SIM(21)	1427 (None), 1506 (None) (6)	MW-04	11/12/2024 10:35	

Sample(s) to be used for Lab QC: MW-04-11122024 Tag 1427, MW-04-11122024 Tag 1506 - Special Instructions: SVOA+SIM (MA 3064.0) + 1,4-Dioxane SIM	**Shipment for Case Complete? N**
	Samples Transferred From Chain of Custody #
Analysis Key: PEST=CLP Pesticides, SVOA+SIM+1,4-D SIM=CLP Semivolatiles+SIM	

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
		11/13/2024			

USEPA CLP COC (LAB COPY)

CHAIN OF CUSTODY RECORD

No: 5-111224-125123-0076

DateShipped: 11/12/2024
CarrierName: FedEx
AirbillNo: 779907221061

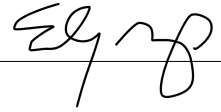
Case #: 51880

Lab: Alliance Technical Group LLC
Lab Contact: Mohammad Ahmed
Lab Phone: 908-789-8900

37

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	For Lab Use Only
MW-04-11122024	E29S4	Ground Water/ M.Hartman	Grab	ARO(21), SVOA+SIM+1,4-D SIM(21)	1428 (None), 1507 (None) (6)	MW-04	11/12/2024 10:35	

Sample(s) to be used for Lab QC: MW-04-11122024 Tag 1428, MW-04-11122024 Tag 1507 - Special Instructions: SVOA+SIM (MA 3064.0) + 1,4-Dioxane SIM	**Shipment for Case Complete? N**
	Samples Transferred From Chain of Custody #
Analysis Key: ARO=CLP PCB Aroclors, SVOA+SIM+1,4-D SIM=CLP Semivolatiles+SIM	

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
		11/13/2024			

USEPA CLP COC (LAB COPY)

DateShipped: 11/12/2024

CarrierName: FedEx

AirbillNo: 779907226876

CHAIN OF CUSTODY RECORD

Case #: 51880

No: 5-111224-134314-0077

Lab: Alliance Technical Group LLC

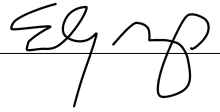
Lab Contact: Mohammad Ahmed

Lab Phone: 908-789-8900

38

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	For Lab Use Only
FB-02-11122024	E29W1	Water/ M.Hartman	Grab	SVOA+SIM+1,4-D SIM(21), PEST(21), ARO(21), ICP-MS+Hg(21)	1475 (None), 1476 (None), 1477 (None), 1478 (HNO3) (7)	FB-02	11/12/2024 13:15	

Special Instructions: SVOA+SIM (MA 3064.0) + 1,4-Dioxane SIM	**Shipment for Case Complete? N**
	Samples Transferred From Chain of Custody #
Analysis Key: SVOA+SIM+1,4-D SIM=CLP Semivolatiles+SIM, PEST=CLP Pesticides, ARO=CLP PCB Aroclors, ICP-MS+Hg=CLP ICP-MS Metals+Hg	

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
		11/13/2024			

USEPA CLP COC (LAB COPY)

CHAIN OF CUSTODY RECORD

No: 5-111224-153241-0079

DateShipped: 11/12/2024

CarrierName: FedEx

AirbillNo: 779907251888

Case #: 51880

Lab: Alliance Technical Group LLC

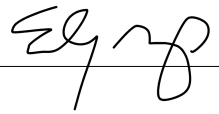
Lab Contact: Mohammad Ahmed

Lab Phone: 908-789-8900

39

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	For Lab Use Only
RB-02-11122024	E29W5	Water/ M.Hartman	Grab	SVOA+SIM+1,4-D SIM(21), PEST(21), ARO(21), ICP-MS+Hg(21)	1495 (None), 1496 (None), 1497 (None), 1498 (HNO3) (7)	RB-02	11/12/2024 18:32	

Special Instructions: SVOA+SIM (MA 3064.0) + 1,4-Dioxane SIM	**Shipment for Case Complete? N**
	Samples Transferred From Chain of Custody #
Analysis Key: SVOA+SIM+1,4-D SIM=CLP Semivolatiles+SIM, PEST=CLP Pesticides, ARO=CLP PCB Aroclors, ICP-MS+Hg=CLP ICP-MS Metals+Hg	

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
		11/13/2024			

EPA SAMPLE NO.

E29R6

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51880 MA No. : SDG No.: E29T2

Matrix: Water Lab Sample ID: P4831-10

% Solids: Date Received: 11/14/2024

Analytical Method: ICP_MS

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

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7429-90-5	Aluminum	9.5	J	11/20/2024	1130
7440-36-0	Antimony	2.0	U	11/20/2024	1130
7440-38-2	Arsenic	0.49	J	11/20/2024	1130
7440-39-3	Barium	59		11/20/2024	1130
7440-41-7	Beryllium	1.0	U	11/20/2024	1130
7440-43-9	Cadmium	1.0	U	11/20/2024	1130
7440-70-2	Calcium	96000		11/20/2024	1130
7440-47-3	Chromium	2.0	U	11/20/2024	1130
7440-48-4	Cobalt	0.61	J	11/20/2024	1130
7440-50-8	Copper	2.0	U	11/20/2024	1130
7439-89-6	Iron	680		11/20/2024	1130
7439-92-1	Lead	1.0	U	11/20/2024	1130
7439-95-4	Magnesium	43000		11/20/2024	1130
7439-96-5	Manganese	390	*	11/20/2024	1130
7440-02-0	Nickel	0.46	J	11/20/2024	1130
7440-09-7	Potassium	1500		11/20/2024	1130
7782-49-2	Selenium	5.0	U	11/20/2024	1130
7440-22-4	Silver	1.0	U	11/20/2024	1130
7440-23-5	Sodium	16000		11/20/2024	1130
7440-28-0	Thallium	1.0	U	11/20/2024	1130
7440-62-2	Vanadium	5.0	U	11/20/2024	1130
7440-66-6	Zinc	5.0	U	11/20/2024	1130

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

Comments:

EPA SAMPLE NO.

E29S0

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51880 MA No. : SDG No.: E29T2

Matrix: Water Lab Sample ID: P4831-11

% Solids: Date Received: 11/14/2024

Analytical Method: ICP_MS

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

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7429-90-5	Aluminum	20	U	11/20/2024	1133
7440-36-0	Antimony	2.0	U	11/20/2024	1133
7440-38-2	Arsenic	0.53	J	11/20/2024	1133
7440-39-3	Barium	200		11/20/2024	1133
7440-41-7	Beryllium	1.0	U	11/20/2024	1133
7440-43-9	Cadmium	1.0	U	11/20/2024	1133
7440-70-2	Calcium	100000		11/20/2024	1133
7440-47-3	Chromium	2.0	U	11/20/2024	1133
7440-48-4	Cobalt	0.23	J	11/20/2024	1133
7440-50-8	Copper	0.61	J	11/20/2024	1133
7439-89-6	Iron	580		11/20/2024	1133
7439-92-1	Lead	1.0	U	11/20/2024	1133
7439-95-4	Magnesium	38000		11/20/2024	1133
7439-96-5	Manganese	120	*	11/20/2024	1133
7440-02-0	Nickel	1.1		11/20/2024	1133
7440-09-7	Potassium	1700		11/20/2024	1133
7782-49-2	Selenium	5.0	U	11/20/2024	1133
7440-22-4	Silver	1.0	U	11/20/2024	1133
7440-23-5	Sodium	16000		11/20/2024	1133
7440-28-0	Thallium	1.0	U	11/20/2024	1133
7440-62-2	Vanadium	0.050	J	11/20/2024	1133
7440-66-6	Zinc	5.0	U	11/20/2024	1133

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

Comments:

EPA SAMPLE NO.

E29S2

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51880 MA No. : SDG No.: E29T2

Matrix: Water Lab Sample ID: P4831-12

% Solids: Date Received: 11/14/2024

Analytical Method: ICP_MS

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

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7429-90-5	Aluminum	20	U	11/20/2024	1136
7440-36-0	Antimony	2.0	U	11/20/2024	1136
7440-38-2	Arsenic	0.42	J	11/20/2024	1136
7440-39-3	Barium	58		11/20/2024	1136
7440-41-7	Beryllium	1.0	U	11/20/2024	1136
7440-43-9	Cadmium	1.0	U	11/20/2024	1136
7440-70-2	Calcium	94000		11/20/2024	1136
7440-47-3	Chromium	2.0	U	11/20/2024	1136
7440-48-4	Cobalt	0.60	J	11/20/2024	1136
7440-50-8	Copper	2.0	U	11/20/2024	1136
7439-89-6	Iron	660		11/20/2024	1136
7439-92-1	Lead	1.0	U	11/20/2024	1136
7439-95-4	Magnesium	41000		11/20/2024	1136
7439-96-5	Manganese	380	*	11/20/2024	1136
7440-02-0	Nickel	0.49	J	11/20/2024	1136
7440-09-7	Potassium	1500		11/20/2024	1136
7782-49-2	Selenium	5.0	U	11/20/2024	1136
7440-22-4	Silver	1.0	U	11/20/2024	1136
7440-23-5	Sodium	15000		11/20/2024	1136
7440-28-0	Thallium	1.0	U	11/20/2024	1136
7440-62-2	Vanadium	5.0	U	11/20/2024	1136
7440-66-6	Zinc	5.0	U	11/20/2024	1136

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

Comments:

EPA SAMPLE NO.

E29S4

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51880 MA No. : SDG No.: E29T2

Matrix: Water Lab Sample ID: P4831-01

% Solids: Date Received: 11/13/2024

Analytical Method: ICP_MS

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

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7429-90-5	Aluminum	20	U	11/20/2024	1058
7440-36-0	Antimony	0.22	J	11/20/2024	1058
7440-38-2	Arsenic	3.0		11/20/2024	1058
7440-39-3	Barium	69		11/20/2024	1058
7440-41-7	Beryllium	1.0	U	11/20/2024	1058
7440-43-9	Cadmium	1.0	U	11/20/2024	1058
7440-70-2	Calcium	100000		11/20/2024	1058
7440-47-3	Chromium	2.0	U	11/20/2024	1058
7440-48-4	Cobalt	0.12	J	11/20/2024	1058
7440-50-8	Copper	0.83	J	11/20/2024	1058
7439-89-6	Iron	490		11/20/2024	1058
7439-92-1	Lead	0.15	J	11/20/2024	1058
7439-95-4	Magnesium	31000		11/20/2024	1058
7439-96-5	Manganese	1.7	*	11/20/2024	1058
7440-02-0	Nickel	0.60	J	11/20/2024	1058
7440-09-7	Potassium	5500		11/20/2024	1058
7782-49-2	Selenium	2.4	J	11/20/2024	1058
7440-22-4	Silver	1.0	U	11/20/2024	1058
7440-23-5	Sodium	82000		11/20/2024	1058
7440-28-0	Thallium	1.0	U	11/20/2024	1058
7440-62-2	Vanadium	0.71	J	11/20/2024	1058
7440-66-6	Zinc	5.0	U	11/20/2024	1058

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

Comments:

EPA SAMPLE NO.

E29S6

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51880 MA No. : SDG No.: E29T2

Matrix: Water Lab Sample ID: P4831-13

% Solids: Date Received: 11/14/2024

Analytical Method: ICP_MS

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

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7429-90-5	Aluminum	760		11/20/2024	1139
7440-36-0	Antimony	1.1	J	11/20/2024	1139
7440-38-2	Arsenic	5.3		11/20/2024	1139
7440-39-3	Barium	150		11/20/2024	1139
7440-41-7	Beryllium	1.0	U	11/20/2024	1139
7440-43-9	Cadmium	1.0	U	11/20/2024	1139
7440-70-2	Calcium	120000		11/20/2024	1139
7440-47-3	Chromium	2.0		11/20/2024	1139
7440-48-4	Cobalt	2.1		11/20/2024	1139
7440-50-8	Copper	3.7		11/20/2024	1139
7439-89-6	Iron	3800		11/20/2024	1139
7439-92-1	Lead	1.1		11/20/2024	1139
7439-95-4	Magnesium	48000		11/20/2024	1139
7439-96-5	Manganese	340	*	11/20/2024	1139
7440-02-0	Nickel	4.9		11/20/2024	1139
7440-09-7	Potassium	2300		11/20/2024	1139
7782-49-2	Selenium	5.0	U	11/20/2024	1139
7440-22-4	Silver	1.0	U	11/20/2024	1139
7440-23-5	Sodium	15000		11/20/2024	1139
7440-28-0	Thallium	1.0	U	11/20/2024	1139
7440-62-2	Vanadium	1.8	J	11/20/2024	1139
7440-66-6	Zinc	2.9	J	11/20/2024	1139

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

Comments:

EPA SAMPLE NO.

E29T2

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51880 MA No. : SDG No.: E29T2

Matrix: Water Lab Sample ID: P4831-04

% Solids: Date Received: 11/13/2024

Analytical Method: ICP_MS

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

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7429-90-5	Aluminum	34		11/20/2024	1110
7440-36-0	Antimony	0.10	J	11/20/2024	1110
7440-38-2	Arsenic	0.42	J	11/20/2024	1110
7440-39-3	Barium	120		11/20/2024	1110
7440-41-7	Beryllium	1.0	U	11/20/2024	1110
7440-43-9	Cadmium	1.0	U	11/20/2024	1110
7440-70-2	Calcium	98000		11/20/2024	1110
7440-47-3	Chromium	2.0	U	11/20/2024	1110
7440-48-4	Cobalt	2.1		11/20/2024	1110
7440-50-8	Copper	0.77	J	11/20/2024	1110
7439-89-6	Iron	590		11/20/2024	1110
7439-92-1	Lead	0.17	J	11/20/2024	1110
7439-95-4	Magnesium	30000		11/20/2024	1110
7439-96-5	Manganese	750	*	11/20/2024	1110
7440-02-0	Nickel	3.2		11/20/2024	1110
7440-09-7	Potassium	6800		11/20/2024	1110
7782-49-2	Selenium	5.0	U	11/20/2024	1110
7440-22-4	Silver	1.0	U	11/20/2024	1110
7440-23-5	Sodium	49000		11/20/2024	1110
7440-28-0	Thallium	0.10	J	11/20/2024	1110
7440-62-2	Vanadium	0.19	J	11/20/2024	1110
7440-66-6	Zinc	5.0	U	11/20/2024	1110

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

Comments:

EPA SAMPLE NO.

E29T4

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51880 MA No. : SDG No.: E29T2

Matrix: Water Lab Sample ID: P4831-05

% Solids: Date Received: 11/13/2024

Analytical Method: ICP_MS

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

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7429-90-5	Aluminum	20	U	11/20/2024	1114
7440-36-0	Antimony	2.0	U	11/20/2024	1114
7440-38-2	Arsenic	3.0		11/20/2024	1114
7440-39-3	Barium	110		11/20/2024	1114
7440-41-7	Beryllium	1.0	U	11/20/2024	1114
7440-43-9	Cadmium	1.0	U	11/20/2024	1114
7440-70-2	Calcium	130000		11/20/2024	1114
7440-47-3	Chromium	2.0	U	11/20/2024	1114
7440-48-4	Cobalt	0.29	J	11/20/2024	1114
7440-50-8	Copper	0.20	J	11/20/2024	1114
7439-89-6	Iron	2400		11/20/2024	1114
7439-92-1	Lead	0.21	J	11/20/2024	1114
7439-95-4	Magnesium	52000		11/20/2024	1114
7439-96-5	Manganese	100	*	11/20/2024	1114
7440-02-0	Nickel	3.3		11/20/2024	1114
7440-09-7	Potassium	2700		11/20/2024	1114
7782-49-2	Selenium	5.0	U	11/20/2024	1114
7440-22-4	Silver	1.0	U	11/20/2024	1114
7440-23-5	Sodium	64000		11/20/2024	1114
7440-28-0	Thallium	1.0	U	11/20/2024	1114
7440-62-2	Vanadium	5.0	U	11/20/2024	1114
7440-66-6	Zinc	5.0	U	11/20/2024	1114

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

Comments:

EPA SAMPLE NO.

E29W0

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51880 MA No. : SDG No.: E29T2

Matrix: Water Lab Sample ID: P4831-06

% Solids: Date Received: 11/13/2024

Analytical Method: ICP_MS

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

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7429-90-5	Aluminum	20	U	11/20/2024	1117
7440-36-0	Antimony	2.0	U	11/20/2024	1117
7440-38-2	Arsenic	1.0	U	11/20/2024	1117
7440-39-3	Barium	10	U	11/20/2024	1117
7440-41-7	Beryllium	1.0	U	11/20/2024	1117
7440-43-9	Cadmium	1.0	U	11/20/2024	1117
7440-70-2	Calcium	500	U	11/20/2024	1117
7440-47-3	Chromium	2.0	U	11/20/2024	1117
7440-48-4	Cobalt	1.0	U	11/20/2024	1117
7440-50-8	Copper	2.0	U	11/20/2024	1117
7439-89-6	Iron	200	U	11/20/2024	1117
7439-92-1	Lead	1.0	U	11/20/2024	1117
7439-95-4	Magnesium	500	U	11/20/2024	1117
7439-96-5	Manganese	0.48	J*	11/20/2024	1117
7440-02-0	Nickel	1.0	U	11/20/2024	1117
7440-09-7	Potassium	500	U	11/20/2024	1117
7782-49-2	Selenium	5.0	U	11/20/2024	1117
7440-22-4	Silver	1.0	U	11/20/2024	1117
7440-23-5	Sodium	500	U	11/20/2024	1117
7440-28-0	Thallium	1.0	U	11/20/2024	1117
7440-62-2	Vanadium	5.0	U	11/20/2024	1117
7440-66-6	Zinc	5.0	U	11/20/2024	1117

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

Comments:

EPA SAMPLE NO.

E29W1

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51880 MA No. : SDG No.: E29T2

Matrix: Water Lab Sample ID: P4831-08

% Solids: Date Received: 11/13/2024

Analytical Method: ICP_MS

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

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7429-90-5	Aluminum	20	U	11/20/2024	1123
7440-36-0	Antimony	2.0	U	11/20/2024	1123
7440-38-2	Arsenic	1.0	U	11/20/2024	1123
7440-39-3	Barium	10	U	11/20/2024	1123
7440-41-7	Beryllium	1.0	U	11/20/2024	1123
7440-43-9	Cadmium	1.0	U	11/20/2024	1123
7440-70-2	Calcium	500	U	11/20/2024	1123
7440-47-3	Chromium	2.0	U	11/20/2024	1123
7440-48-4	Cobalt	1.0	U	11/20/2024	1123
7440-50-8	Copper	2.0	U	11/20/2024	1123
7439-89-6	Iron	200	U	11/20/2024	1123
7439-92-1	Lead	1.0	U	11/20/2024	1123
7439-95-4	Magnesium	500	U	11/20/2024	1123
7439-96-5	Manganese	1.0	U*	11/20/2024	1123
7440-02-0	Nickel	1.0	U	11/20/2024	1123
7440-09-7	Potassium	500	U	11/20/2024	1123
7782-49-2	Selenium	5.0	U	11/20/2024	1123
7440-22-4	Silver	1.0	U	11/20/2024	1123
7440-23-5	Sodium	500	U	11/20/2024	1123
7440-28-0	Thallium	1.0	U	11/20/2024	1123
7440-62-2	Vanadium	5.0	U	11/20/2024	1123
7440-66-6	Zinc	5.0	U	11/20/2024	1123

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

Comments:

EPA SAMPLE NO.

E29W2

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51880 MA No. : SDG No.: E29T2

Matrix: Water Lab Sample ID: P4831-15

% Solids: Date Received: 11/14/2024

Analytical Method: ICP_MS

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

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7429-90-5	Aluminum	17	J	11/20/2024	1205
7440-36-0	Antimony	2.0	U	11/20/2024	1205
7440-38-2	Arsenic	1.0	U	11/20/2024	1205
7440-39-3	Barium	10	U	11/20/2024	1205
7440-41-7	Beryllium	1.0	U	11/20/2024	1205
7440-43-9	Cadmium	1.0	U	11/20/2024	1205
7440-70-2	Calcium	35	J	11/20/2024	1205
7440-47-3	Chromium	2.0	U	11/20/2024	1205
7440-48-4	Cobalt	1.0	U	11/20/2024	1205
7440-50-8	Copper	0.33	J	11/20/2024	1205
7439-89-6	Iron	200	U	11/20/2024	1205
7439-92-1	Lead	1.0	U	11/20/2024	1205
7439-95-4	Magnesium	500	U	11/20/2024	1205
7439-96-5	Manganese	1.0	U*	11/20/2024	1205
7440-02-0	Nickel	1.0	U	11/20/2024	1205
7440-09-7	Potassium	500	U	11/20/2024	1205
7782-49-2	Selenium	5.0	U	11/20/2024	1205
7440-22-4	Silver	1.0	U	11/20/2024	1205
7440-23-5	Sodium	500	U	11/20/2024	1205
7440-28-0	Thallium	1.0	U	11/20/2024	1205
7440-62-2	Vanadium	5.0	U	11/20/2024	1205
7440-66-6	Zinc	5.0	U	11/20/2024	1205

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

Comments:

EPA SAMPLE NO.

E29W4

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51880 MA No. : SDG No.: E29T2

Matrix: Water Lab Sample ID: P4831-07

% Solids: Date Received: 11/13/2024

Analytical Method: ICP_MS

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

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7429-90-5	Aluminum	20	U	11/20/2024	1120
7440-36-0	Antimony	2.0	U	11/20/2024	1120
7440-38-2	Arsenic	1.0	U	11/20/2024	1120
7440-39-3	Barium	10	U	11/20/2024	1120
7440-41-7	Beryllium	1.0	U	11/20/2024	1120
7440-43-9	Cadmium	1.0	U	11/20/2024	1120
7440-70-2	Calcium	500	U	11/20/2024	1120
7440-47-3	Chromium	0.21	J	11/20/2024	1120
7440-48-4	Cobalt	1.0	U	11/20/2024	1120
7440-50-8	Copper	2.0	U	11/20/2024	1120
7439-89-6	Iron	200	U	11/20/2024	1120
7439-92-1	Lead	1.0	U	11/20/2024	1120
7439-95-4	Magnesium	500	U	11/20/2024	1120
7439-96-5	Manganese	0.86	J*	11/20/2024	1120
7440-02-0	Nickel	1.0	U	11/20/2024	1120
7440-09-7	Potassium	500	U	11/20/2024	1120
7782-49-2	Selenium	5.0	U	11/20/2024	1120
7440-22-4	Silver	1.0	U	11/20/2024	1120
7440-23-5	Sodium	500	U	11/20/2024	1120
7440-28-0	Thallium	1.0	U	11/20/2024	1120
7440-62-2	Vanadium	5.0	U	11/20/2024	1120
7440-66-6	Zinc	5.0	U	11/20/2024	1120

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

Comments:

EPA SAMPLE NO.

E29W5

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51880 MA No. : SDG No.: E29T2

Matrix: Water Lab Sample ID: P4831-09

% Solids: Date Received: 11/13/2024

Analytical Method: ICP_MS

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

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7429-90-5	Aluminum	8.3	J	11/20/2024	1126
7440-36-0	Antimony	2.0	U	11/20/2024	1126
7440-38-2	Arsenic	1.0	U	11/20/2024	1126
7440-39-3	Barium	10	U	11/20/2024	1126
7440-41-7	Beryllium	1.0	U	11/20/2024	1126
7440-43-9	Cadmium	1.0	U	11/20/2024	1126
7440-70-2	Calcium	500	U	11/20/2024	1126
7440-47-3	Chromium	2.0	U	11/20/2024	1126
7440-48-4	Cobalt	1.0	U	11/20/2024	1126
7440-50-8	Copper	2.0	U	11/20/2024	1126
7439-89-6	Iron	200	U	11/20/2024	1126
7439-92-1	Lead	1.0	U	11/20/2024	1126
7439-95-4	Magnesium	500	U	11/20/2024	1126
7439-96-5	Manganese	0.90	J*	11/20/2024	1126
7440-02-0	Nickel	1.0	U	11/20/2024	1126
7440-09-7	Potassium	500	U	11/20/2024	1126
7782-49-2	Selenium	5.0	U	11/20/2024	1126
7440-22-4	Silver	1.0	U	11/20/2024	1126
7440-23-5	Sodium	500	U	11/20/2024	1126
7440-28-0	Thallium	1.0	U	11/20/2024	1126
7440-62-2	Vanadium	5.0	U	11/20/2024	1126
7440-66-6	Zinc	5.0	U	11/20/2024	1126

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

Comments:

EPA SAMPLE NO.

E29W6

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51880 MA No. : SDG No.: E29T2

Matrix: Water Lab Sample ID: P4831-14

% Solids: Date Received: 11/14/2024

Analytical Method: ICP_MS

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

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7429-90-5	Aluminum	17	J	11/20/2024	1202
7440-36-0	Antimony	2.0	U	11/20/2024	1202
7440-38-2	Arsenic	1.0	U	11/20/2024	1202
7440-39-3	Barium	10	U	11/20/2024	1202
7440-41-7	Beryllium	1.0	U	11/20/2024	1202
7440-43-9	Cadmium	1.0	U	11/20/2024	1202
7440-70-2	Calcium	42	J	11/20/2024	1202
7440-47-3	Chromium	2.0	U	11/20/2024	1202
7440-48-4	Cobalt	1.0	U	11/20/2024	1202
7440-50-8	Copper	0.38	J	11/20/2024	1202
7439-89-6	Iron	200	U	11/20/2024	1202
7439-92-1	Lead	1.0	U	11/20/2024	1202
7439-95-4	Magnesium	500	U	11/20/2024	1202
7439-96-5	Manganese	0.98	J*	11/20/2024	1202
7440-02-0	Nickel	1.0	U	11/20/2024	1202
7440-09-7	Potassium	500	U	11/20/2024	1202
7782-49-2	Selenium	5.0	U	11/20/2024	1202
7440-22-4	Silver	1.0	U	11/20/2024	1202
7440-23-5	Sodium	500	U	11/20/2024	1202
7440-28-0	Thallium	1.0	U	11/20/2024	1202
7440-62-2	Vanadium	5.0	U	11/20/2024	1202
7440-66-6	Zinc	5.0	U	11/20/2024	1202

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

Comments:

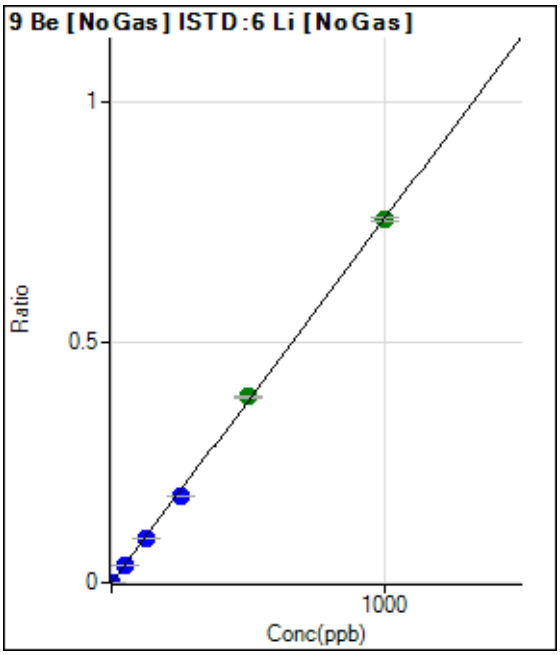
Reviewed By:Mohan
On:11/21/2024 4:25:15 AM
Inst Id :P7

Calibration for 005CALS.d

Batch Folder: D:\Agilent\ICPMH\1\DATA\P7112024 MS.b\
Analysis File: P7112024 MS.batch.bin
DA Date-Time: 2024-11-20 12:24:27
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	004CALB.d	S00	2024-11-20 09:21:55
2	006CALS.d	S02	2024-11-20 09:28:28
3	007CALS.d	S03	2024-11-20 09:31:44
4	008CALS.d	S04	2024-11-20 09:34:40
5	009CALS.d	S05	2024-11-20 09:37:26
6	010CALS.d	S06	2024-11-20 09:40:14
7	011CALS.d	S07	2024-11-20 09:42:59
8	012CALS.d	S08	2024-11-20 09:45:46

Reviewed By:Mohan
On:11/21/2024 4:25:15 AM
Inst Id :P7



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	42.60	0.0000	P	7.1
2	☐	1.000	0.981	2535.44	0.0008	P	5.8
3	☐	50.000	49.861	129684.64	0.0378	P	1.2
4	☐	125.000	122.794	312425.18	0.0931	P	1.3
5	☐	250.000	239.375	625429.35	0.1814	P	0.3
6	☐	500.000	511.048	1296531.41	0.3872	A	1.5
7	☐	1000.000	997.415	2569230.99	0.7557	A	1.0
8	☐			348.16	0.0001	P	29.

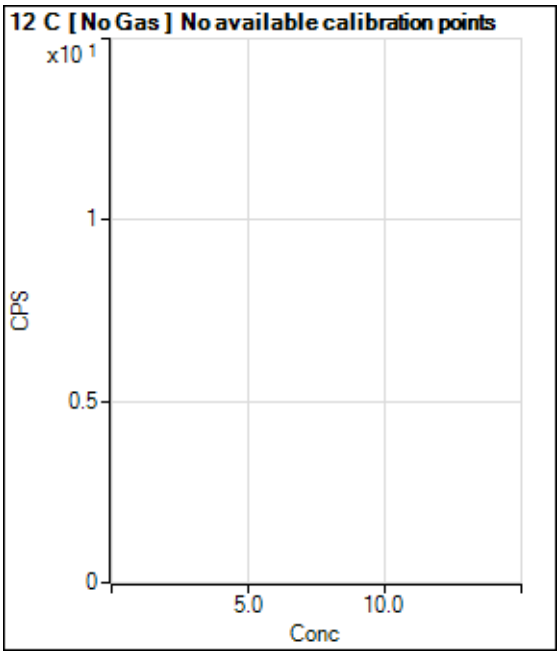
y = 7.5768E-004 * x + 1.2690E-005

R = 0.9998

DL = 0.003556

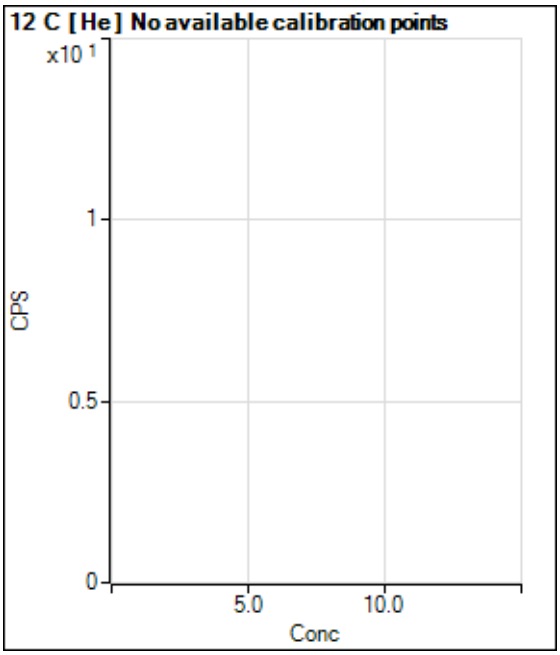
Weight: <None>

Min Conc: 0

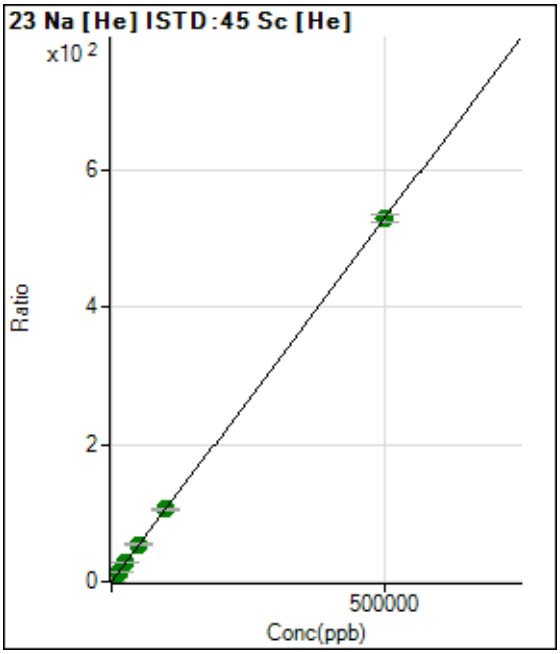


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐						
2	☐						
3	☐						
4	☐						
5	☐						
6	☐						
7	☐						
8	☐						

Reviewed By:Mohan
On:11/21/2024 4:25:15 AM
Inst Id :P7



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐						
2	☐						
3	☐						
4	☐						
5	☐						
6	☐						
7	☐						
8	☐						

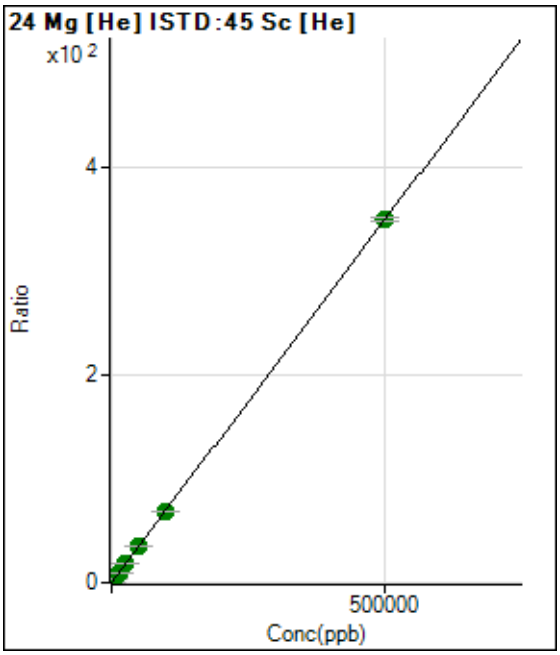


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	77407.60	0.0588	P	1.0
2	☐	500.000	497.785	758778.84	0.5848	P	1.2
3	☐	5000.000	5331.763	7361465.79	5.6934	A	0.6
4	☐	12500.000	13110.589	17574943.35	13.9141	A	0.8
5	☐	25000.000	26335.397	34883920.31	27.8902	A	1.3
6	☐	50000.000	51578.773	68157330.65	54.5676	A	1.0
7	☐	100000.00	99400.411	138094496.83	105.1058	A	0.9
8	☐	500000.00	499876.69	673498563.30	528.3318	A	2.2

y = 0.0011 * x + 0.0588
R = 1.0000
DL = 1.705

Weight: <None>
Min Conc: 0

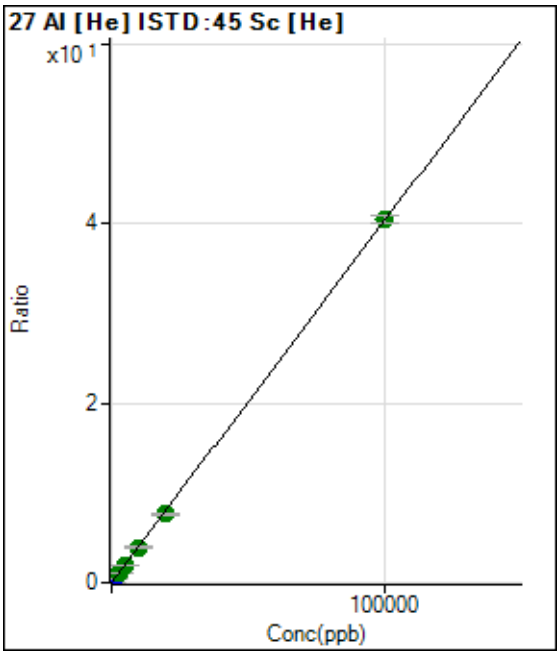
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On:11/21/2024 4:25:15 AM
Inst Id :P7



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	3397.08	0.0026	P	0.9
2	☐	500.000	492.795	449212.86	0.3462	P	1.1
3	☐	5000.000	5167.040	4662284.55	3.6058	A	0.3
4	☐	12500.000	12708.617	11197486.78	8.8650	A	0.9
5	☐	25000.000	25325.318	22093189.11	17.6633	A	0.9
6	☐	50000.000	49601.116	43207502.14	34.5922	A	0.9
7	☐	100000.00	97295.196	89152315.34	67.8519	A	0.3
8	☐	500000.00	500557.70	445048380.04	349.0693	A	1.0

y = 6.9736E-004 * x + 0.0026
R = 1.0000
DL = 0.1023

Weight: <None>
Min Conc: 0

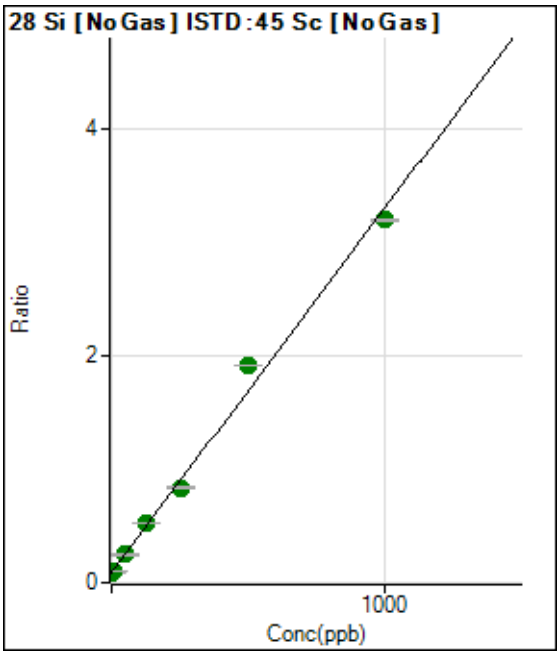


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	723.62	0.0005	P	10.
2	☐	20.000	19.115	10705.23	0.0083	P	2.8
3	☐	1000.000	981.923	512270.18	0.3962	P	0.5
4	☐	2500.000	2501.137	1273673.61	1.0083	A	0.4
5	☐	5000.000	4947.573	2494011.42	1.9941	A	1.8
6	☐	10000.000	9771.775	4918463.50	3.9379	A	1.5
7	☐	20000.000	18889.198	10000644.81	7.6116	A	0.6
8	☐	100000.00	100247.75	51491778.59	40.3933	A	2.1

y = 4.0293E-004 * x + 5.4961E-004
R = 0.9999
DL = 0.4297

Weight: <None>
Min Conc: 0

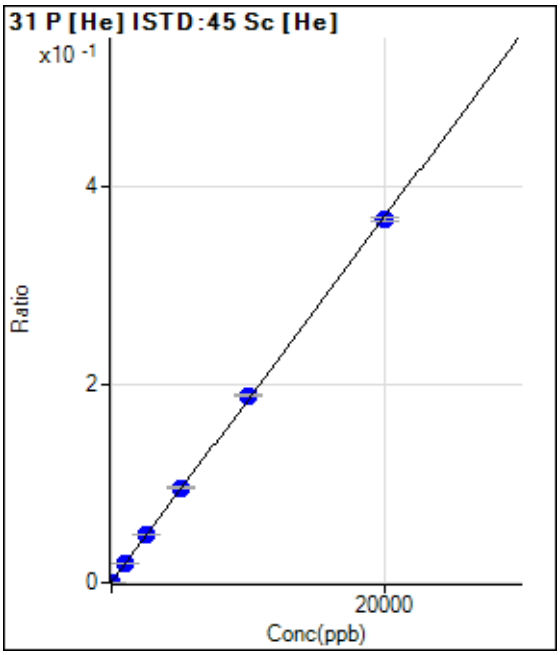
Reviewed By:Mohan
On:11/21/2024 4:25:15 AM
Inst Id :P7



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1430812.43	0.0891	A	1.4
2	☐	10.000	1.612	1489156.09	0.0942	A	0.8
3	☐	50.000	48.942	3972184.87	0.2462	A	1.2
4	☐	125.000	134.624	8143860.99	0.5214	A	0.9
5	☐	250.000	233.082	13190165.08	0.8375	A	1.8
6	☐	500.000	568.644	29627983.72	1.9151	A	0.7
7	☐	1000.000	968.841	50613331.47	3.2002	A	0.2
8	☐			1346152.92	0.0872	A	2.4

y = 0.0032 * x + 0.0891
R = 0.9962
DL = 1.198

Weight: <None>
Min Conc: 0

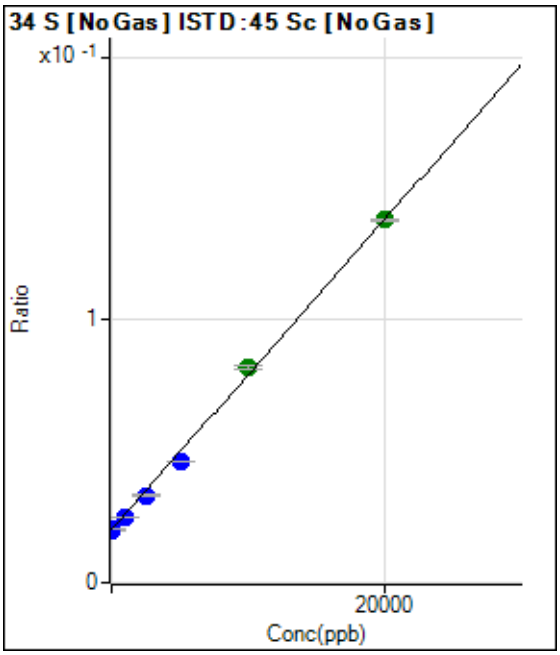


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	-13.982	514.46	0.0004	P	19.
2	☐	0.000	13.982	1175.61	0.0009	P	8.5
3	☐	1000.000	1049.008	25844.10	0.0200	P	1.6
4	☐	2500.000	2581.778	60942.98	0.0482	P	0.7
5	☐	5000.000	5161.081	119819.02	0.0958	P	1.4
6	☐	10000.000	10229.265	236356.82	0.1892	P	1.4
7	☐	20000.000	19832.425	481226.13	0.3663	P	1.1
8	☐			490.02	0.0004	P	7.2

y = 1.8436E-005 * x + 6.4878E-004
R = 0.9999
DL = 12.32

Weight: <None>
Min Conc: 0

Reviewed By:Mohan
On:11/21/2024 4:25:15 AM
Inst Id :P7



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	-14.013	322492.71	0.0201	P	1.7
2	☐	0.000	14.013	319813.45	0.0202	P	1.0
3	☐	1000.000	793.925	400803.32	0.0248	P	0.5
4	☐	2500.000	2218.248	519370.55	0.0333	P	1.1
5	☐	5000.000	4363.804	723131.99	0.0459	P	0.5
6	☐	10000.000	10457.855	1266654.66	0.0819	A	1.9
7	☐	20000.000	19975.644	2183289.59	0.1381	A	0.6
8	☐			254251.02	0.0165	P	1.4

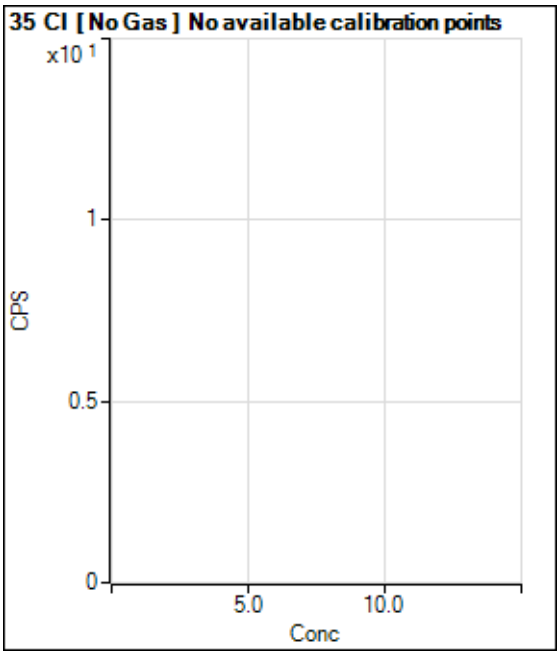
y = 5.9017E-006 * x + 0.0202

R = 0.9991

DL = 138.7

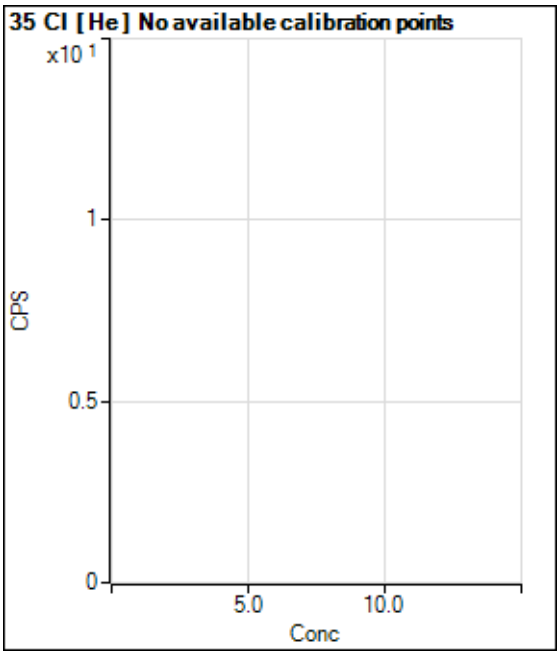
Weight: <None>

Min Conc: 0

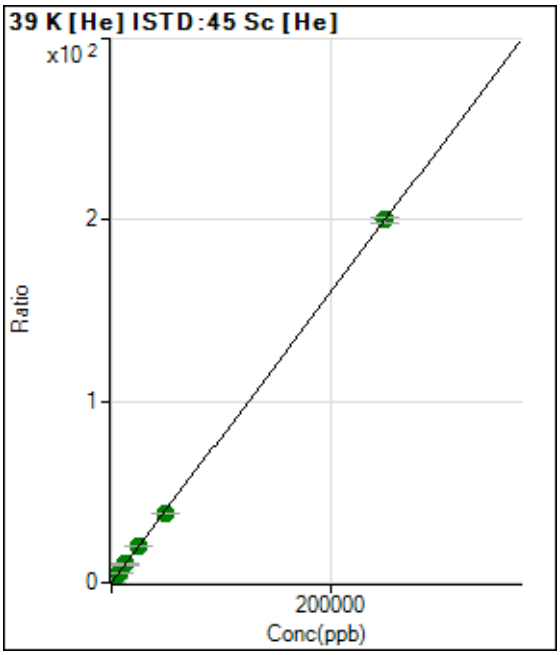


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐						
2	☐						
3	☐						
4	☐						
5	☐						
6	☐						
7	☐						
8	☐						

Reviewed By:Mohan
On:11/21/2024 4:25:15 AM
Inst Id :P7



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐						
2	☐						
3	☐						
4	☐						
5	☐						
6	☐						
7	☐						
8	☐						

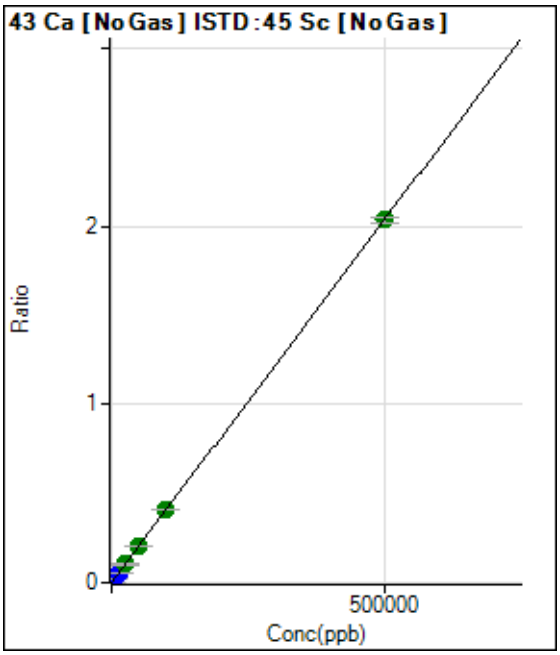


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	78080.94	0.0593	P	1.6
2	☐	500.000	519.057	614918.94	0.4740	P	1.2
3	☐	2500.000	2546.038	2706553.40	2.0933	A	0.4
4	☐	6250.000	6282.888	6414696.57	5.0786	A	1.1
5	☐	12500.000	12562.547	12627194.53	10.0953	A	0.8
6	☐	25000.000	24587.192	24609174.08	19.7016	A	0.3
7	☐	50000.000	47703.787	50147682.58	38.1690	A	1.1
8	☐	250000.00	250496.07	255204260.64	200.1763	A	1.5

y = 7.9888E-004 * x + 0.0593
R = 1.0000
DL = 3.661

Weight: <None>
Min Conc: 0

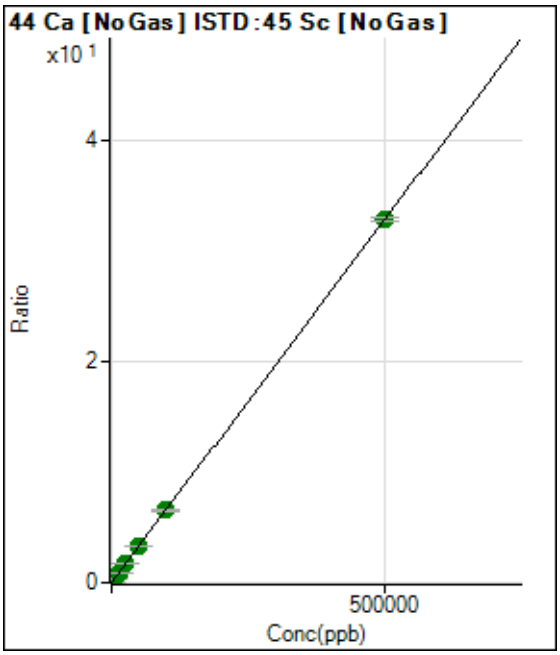
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On:11/21/2024 4:25:15 AM
Inst Id :P7



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	7334.05	0.0005	P	3.1
2	☐	500.000	531.058	41444.35	0.0026	P	1.8
3	☐	5000.000	5220.048	350857.43	0.0217	P	0.4
4	☐	12500.000	12900.628	829096.00	0.0531	P	0.5
5	☐	25000.000	25311.685	1633151.97	0.1037	A	2.0
6	☐	50000.000	50216.895	3176050.44	0.2053	A	0.9
7	☐	100000.00	100435.28	6486478.45	0.4101	A	0.4
8	☐	500000.00	499863.42	31494786.75	2.0394	A	1.3

y = 4.0790E-006 * x + 4.5663E-004
R = 1.0000
DL = 10.45

Weight: <None>
Min Conc: 0

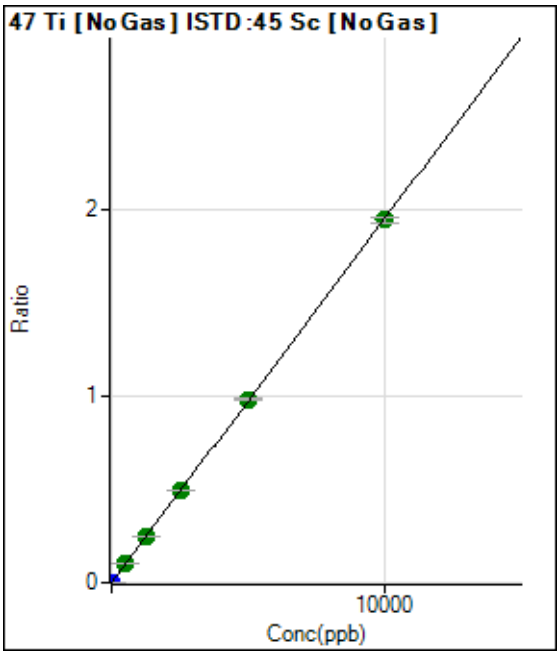


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
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2	☐	500.000	527.447	683434.61	0.0433	P	2.2
3	☐	5000.000	5052.335	5489966.31	0.3403	A	1.0
4	☐	12500.000	12626.495	13082515.78	0.8376	A	0.7
5	☐	25000.000	25133.188	26122922.94	1.6586	A	0.4
6	☐	50000.000	49803.704	50716834.24	3.2782	A	0.6
7	☐	100000.00	99741.355	103693154.01	6.5566	A	1.2
8	☐	500000.00	500060.98	507117499.11	32.8375	A	0.9

y = 6.5650E-005 * x + 0.0086
R = 1.0000
DL = 3.874

Weight: <None>
Min Conc: 0

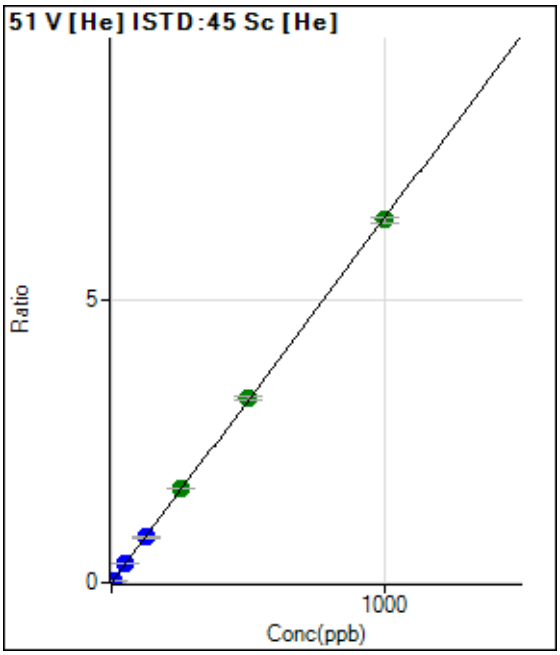
Reviewed By:Mohan
On:11/21/2024 4:25:15 AM
Inst Id :P7



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	225.56	0.0000	P	9.4
2	☐	5.000	5.015	15640.39	0.0010	P	2.8
3	☐	500.000	515.043	1616810.05	0.1002	A	0.9
4	☐	1250.000	1260.573	3831319.91	0.2453	A	0.8
5	☐	2500.000	2523.424	7733125.65	0.4910	A	0.6
6	☐	5000.000	5035.225	15156992.14	0.9797	A	0.9
7	☐	10000.000	9974.458	30692216.21	1.9407	A	1.4
8	☐			4360.67	0.0003	P	6.2

y = 1.9457E-004 * x + 1.4049E-005
R = 1.0000
DL = 0.02043

Weight: <None>
Min Conc: 0

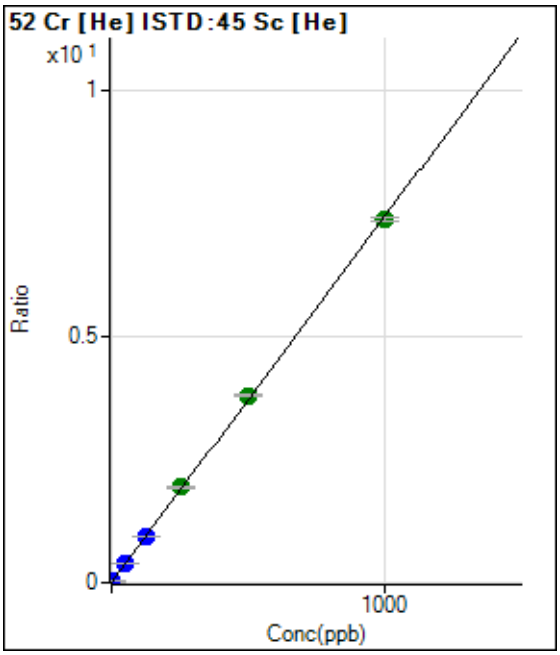


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	47.78	0.0000	P	13.
2	☐	5.000	5.167	43246.29	0.0333	P	2.0
3	☐	50.000	50.288	419065.91	0.3241	P	0.7
4	☐	125.000	124.213	1011124.72	0.8005	P	0.6
5	☐	250.000	258.169	2080881.91	1.6638	A	1.8
6	☐	500.000	506.331	4075556.29	3.2630	A	1.3
7	☐	1000.000	994.875	8423390.71	6.4113	A	1.2
8	☐			2181.29	0.0017	P	8.3

y = 0.0064 * x + 3.6247E-005
R = 0.9999
DL = 0.002327

Weight: <None>
Min Conc: 0

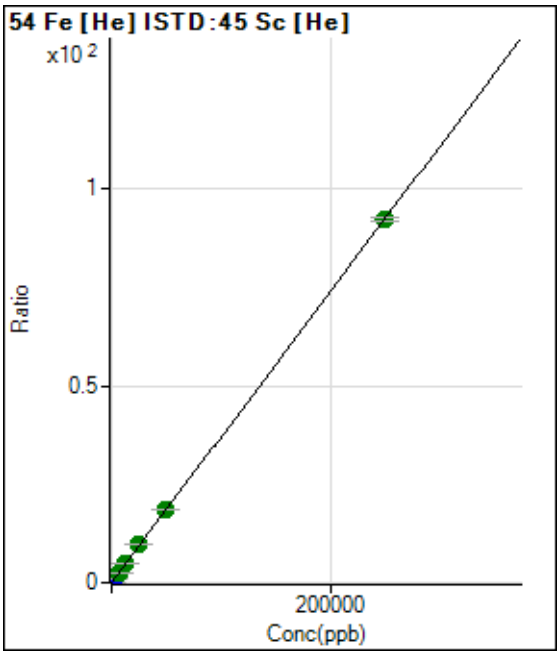
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	6798.26	0.0052	P	1.2
2	☐	2.000	2.131	27216.85	0.0210	P	1.8
3	☐	50.000	51.159	497664.86	0.3849	P	0.5
4	☐	125.000	126.349	1191107.87	0.9430	P	0.9
5	☐	250.000	259.915	2419403.80	1.9344	A	1.9
6	☐	500.000	511.385	4747507.26	3.8010	A	1.7
7	☐	1000.000	991.602	9676959.37	7.3655	A	1.2
8	☐			17638.16	0.0138	P	2.5

y = 0.0074 * x + 0.0052
R = 0.9998
DL = 0.02479

Weight: <None>
Min Conc: 0

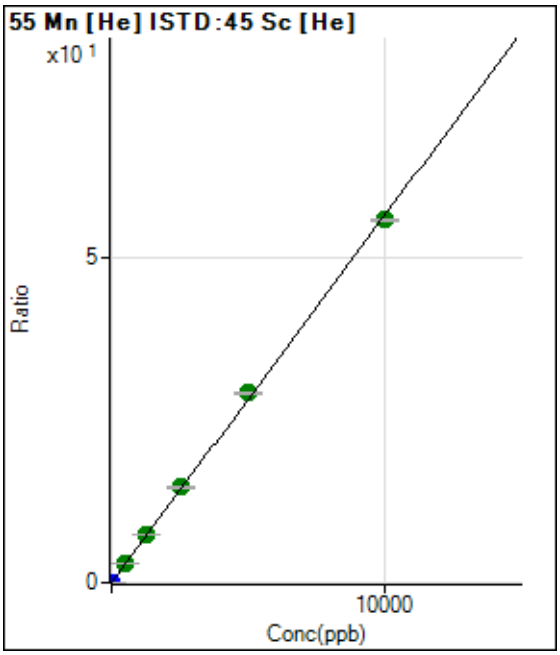


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	5146.48	0.0039	P	1.9
2	☐	50.000	56.121	31907.16	0.0246	P	1.9
3	☐	2500.000	2722.685	1302697.89	1.0075	P	0.3
4	☐	6250.000	6638.060	3095429.68	2.4508	A	2.2
5	☐	12500.000	13380.185	6173389.56	4.9360	A	2.2
6	☐	25000.000	26339.854	12131591.34	9.7131	A	1.7
7	☐	50000.000	50487.377	24456489.64	18.6141	A	0.6
8	☐	250000.00	249712.60	117363443.81	92.0507	A	1.2

y = 3.6861E-004 * x + 0.0039
R = 1.0000
DL = 0.5956

Weight: <None>
Min Conc: 0

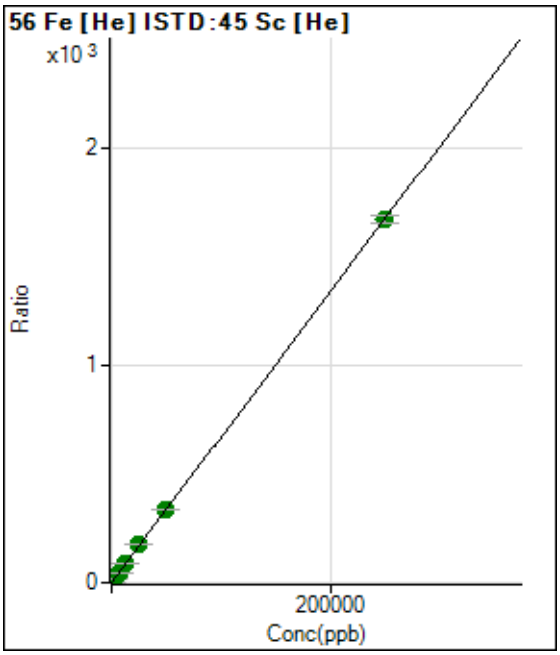
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	14096.69	0.0107	P	1.0
2	☐	1.000	1.043	21513.22	0.0166	P	2.1
3	☐	500.000	521.331	3811613.62	2.9480	A	1.1
4	☐	1250.000	1290.984	9200637.85	7.2843	A	1.4
5	☐	2500.000	2604.927	18369635.56	14.6873	A	1.8
6	☐	5000.000	5162.947	36345393.35	29.0996	A	1.8
7	☐	10000.000	9886.105	73195878.35	55.7107	A	0.7
8	☐			38544.86	0.0302	P	1.4

y = 0.0056 * x + 0.0107
R = 0.9997
DL = 0.05745

Weight: <None>
Min Conc: 0

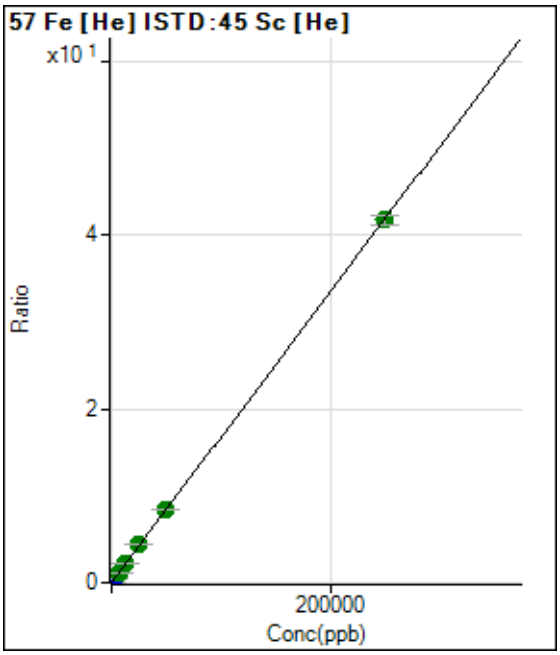


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	39899.66	0.0303	P	1.6
2	☐	50.000	55.418	519705.61	0.4006	P	1.4
3	☐	2500.000	2691.457	23290889.65	18.0135	A	0.4
4	☐	6250.000	6649.152	56152609.72	44.4571	A	1.4
5	☐	12500.000	13408.108	112090228.33	89.6176	A	1.4
6	☐	25000.000	26464.353	220885441.15	176.8538	A	2.2
7	☐	50000.000	50463.640	443042477.84	337.2069	A	0.7
8	☐	250000.00	249703.53	2127026546.0	1,668.443	A	2.0

y = 0.0067 * x + 0.0303
R = 1.0000
DL = 0.2148

Weight: <None>
Min Conc: 0

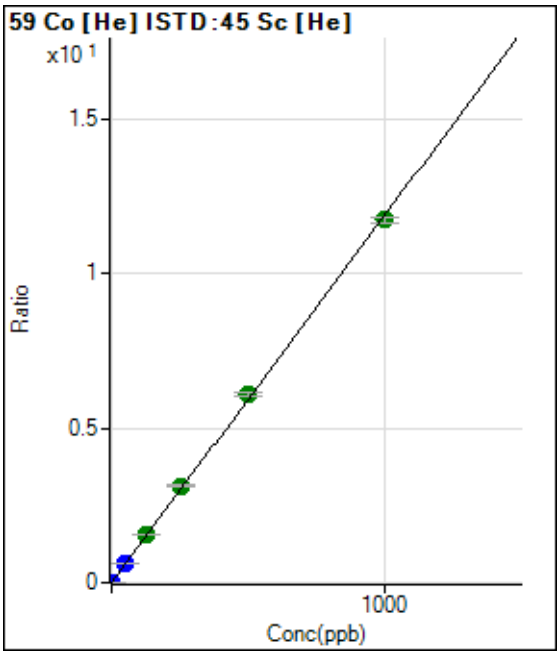
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1944.59	0.0015	P	5.0
2	☐	50.000	57.332	14364.73	0.0111	P	2.7
3	☐	2500.000	2714.444	589340.65	0.4558	P	0.6
4	☐	6250.000	6698.576	1418019.68	1.1226	A	1.0
5	☐	12500.000	13354.673	2797391.80	2.2367	A	2.2
6	☐	25000.000	26138.921	5466105.75	4.3765	A	1.9
7	☐	50000.000	50409.685	11087698.44	8.4387	A	0.4
8	☐	250000.00	249748.07	53288004.21	41.8028	A	2.5

y = 1.6737E-004 * x + 0.0015
R = 1.0000
DL = 1.324

Weight: <None>
Min Conc: 0

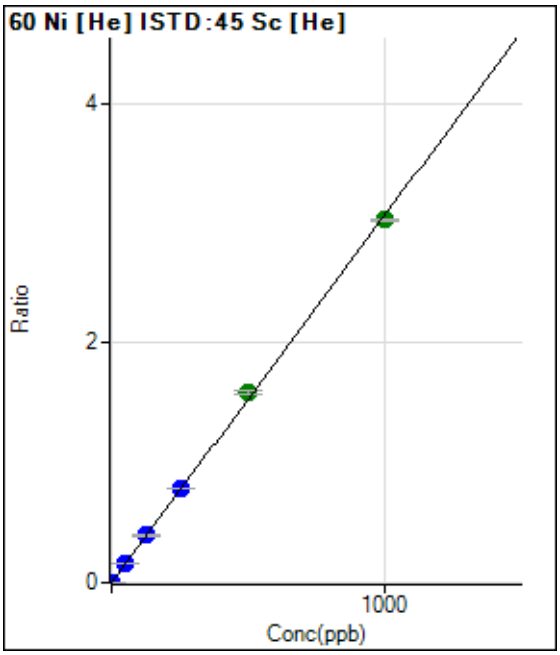


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	387.78	0.0003	P	7.8
2	☐	1.000	1.111	17474.71	0.0135	P	2.3
3	☐	50.000	52.268	802087.35	0.6203	P	0.3
4	☐	125.000	131.331	1968303.44	1.5583	A	0.2
5	☐	250.000	262.612	3896786.23	3.1156	A	1.8
6	☐	500.000	514.666	7626012.04	6.1057	A	1.8
7	☐	1000.000	988.609	15409475.05	11.7281	A	1.4
8	☐			38690.86	0.0303	P	0.5

y = 0.0119 * x + 2.9439E-004
R = 0.9997
DL = 0.005819

Weight: <None>
Min Conc: 0

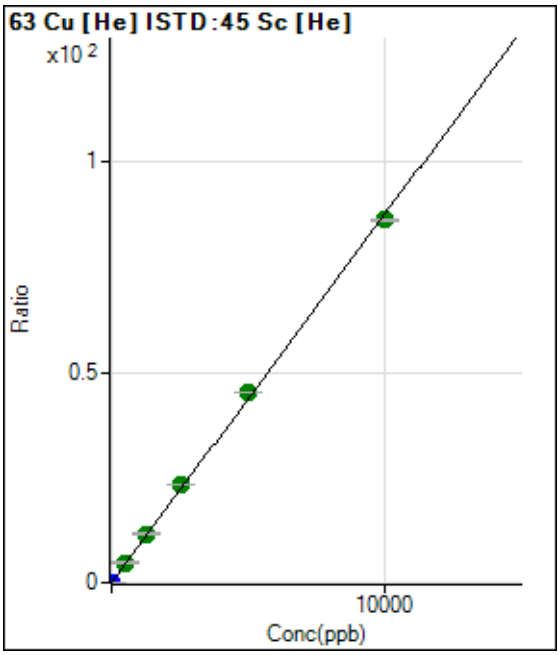
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	810.03	0.0006	P	6.2
2	☐	1.000	1.066	5036.44	0.0039	P	2.3
3	☐	50.000	52.552	208964.59	0.1616	P	0.5
4	☐	125.000	128.299	497262.86	0.3937	P	0.3
5	☐	250.000	256.077	982044.78	0.7851	P	1.0
6	☐	500.000	519.232	1987660.20	1.5914	A	1.4
7	☐	1000.000	988.325	3979099.56	3.0285	A	0.9
8	☐			10858.45	0.0085	P	3.2

y = 0.0031 * x + 6.1497E-004
R = 0.9997
DL = 0.03747

Weight: <None>
Min Conc: 0

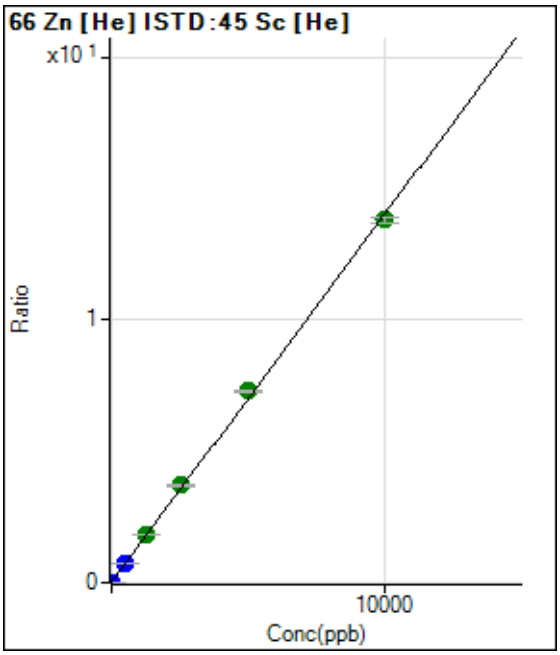


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	2401.33	0.0018	P	8.5
2	☐	2.000	2.070	25884.73	0.0199	P	0.3
3	☐	500.000	546.788	6191844.84	4.7888	A	0.9
4	☐	1250.000	1332.324	14735168.81	11.6660	A	1.6
5	☐	2500.000	2664.195	29176719.57	23.3262	A	0.9
6	☐	5000.000	5172.513	56564351.94	45.2859	A	0.9
7	☐	10000.000	9860.065	113419124.98	86.3243	A	0.5
8	☐			20943.63	0.0164	P	4.5

y = 0.0088 * x + 0.0018
R = 0.9996
DL = 0.05289

Weight: <None>
Min Conc: 0

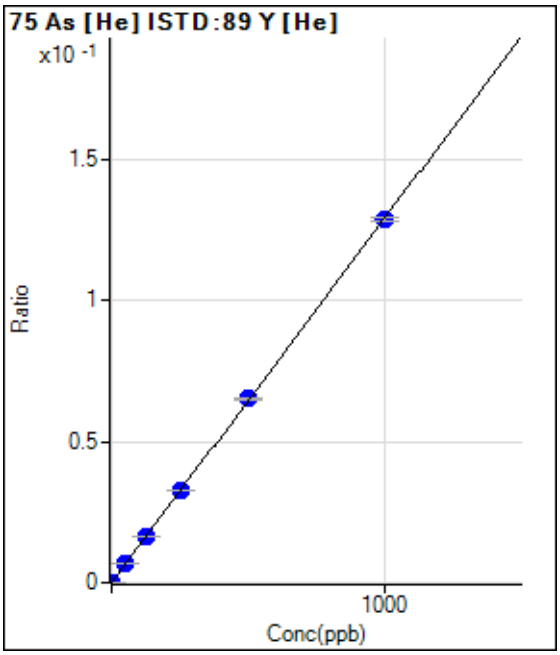
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	14096.73	0.0107	P	1.5
2	☐	2.000	4.899	22781.88	0.0176	P	1.1
3	☐	500.000	523.700	961425.59	0.7436	P	0.6
4	☐	1250.000	1310.929	2330765.40	1.8452	A	0.6
5	☐	2500.000	2641.711	4637452.85	3.7076	A	1.1
6	☐	5000.000	5199.444	9101615.56	7.2869	A	1.1
7	☐	10000.000	9856.048	18135292.37	13.8035	A	1.3
8	☐			10489.32	0.0082	P	1.6

y = 0.0014 * x + 0.0107
R = 0.9996
DL = 0.3361

Weight: <None>
Min Conc: 0

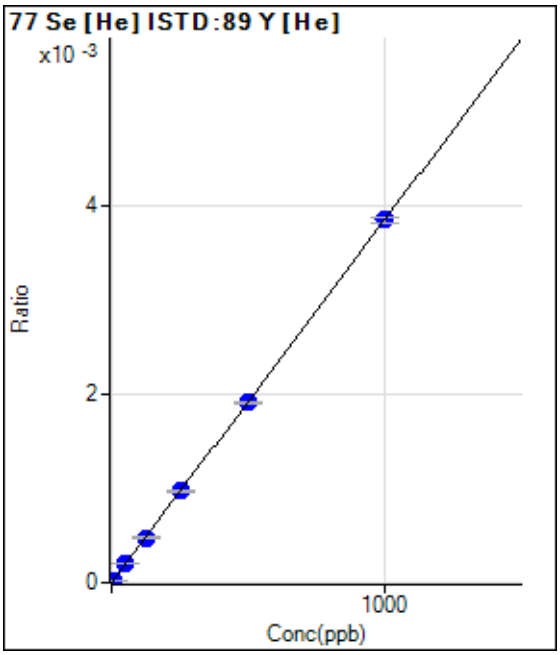


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	12.22	0.0000	P	68.
2	☐	1.000	1.116	1320.07	0.0001	P	7.8
3	☐	50.000	52.532	62298.92	0.0068	P	0.7
4	☐	125.000	127.876	150159.67	0.0165	P	0.4
5	☐	250.000	252.304	299637.66	0.0326	P	0.8
6	☐	500.000	505.787	592541.06	0.0653	P	0.8
7	☐	1000.000	996.044	1196032.65	0.1286	P	1.0
8	☐			677.80	0.0001	P	6.0

y = 1.2913E-004 * x + 1.3381E-006
R = 1.0000
DL = 0.02141

Weight: <None>
Min Conc: 0

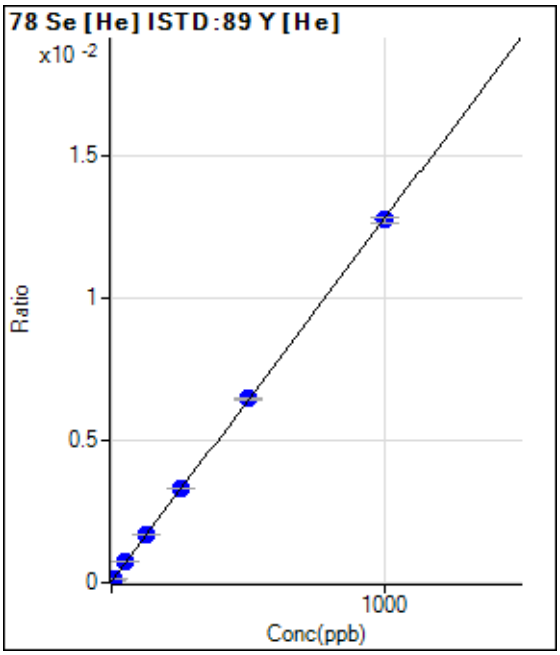
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	0.00	0.0000	P	
2	☐	5.000	5.465	191.11	0.0000	P	6.5
3	☐	50.000	53.614	1895.70	0.0002	P	2.7
4	☐	125.000	123.365	4319.55	0.0005	P	3.3
5	☐	250.000	252.257	8932.75	0.0010	P	2.1
6	☐	500.000	496.801	17356.98	0.0019	P	1.6
7	☐	1000.000	1001.057	35843.33	0.0039	P	1.8
8	☐			8.89	0.0000	P	21.

y = 3.8505E-006 * x + 0.0000E+000
R = 1.0000
DL = 0

Weight: <None>
Min Conc: 0

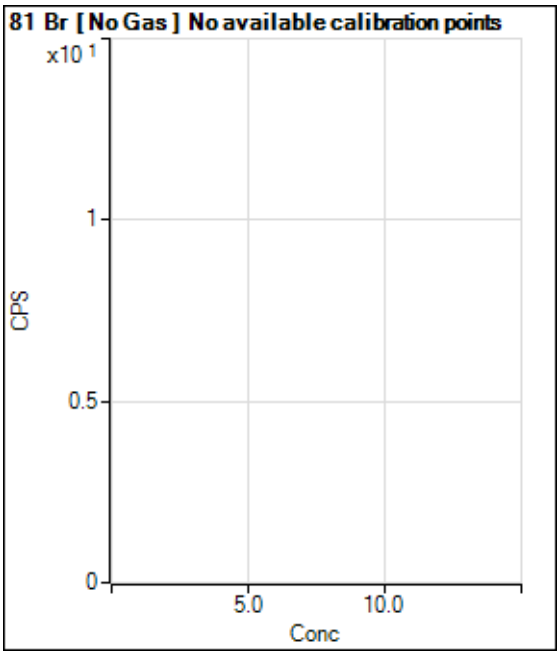


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	422.23	0.0000	P	5.1
2	☐	5.000	5.487	1053.38	0.0001	P	6.7
3	☐	50.000	54.421	6783.84	0.0007	P	2.5
4	☐	125.000	128.027	15234.59	0.0017	P	0.9
5	☐	250.000	255.039	30272.06	0.0033	P	0.9
6	☐	500.000	503.339	58529.50	0.0065	P	0.5
7	☐	1000.000	996.469	118340.44	0.0127	P	1.3
8	☐			483.35	0.0001	P	5.1

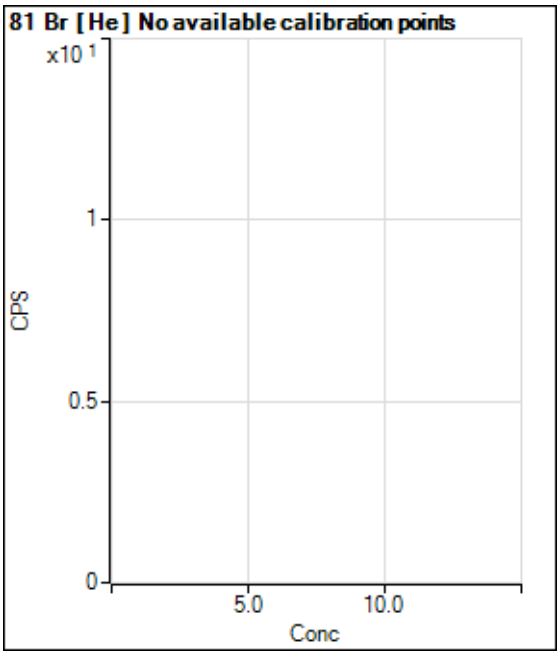
y = 1.2725E-005 * x + 4.6227E-005
R = 1.0000
DL = 0.553

Weight: <None>
Min Conc: 0

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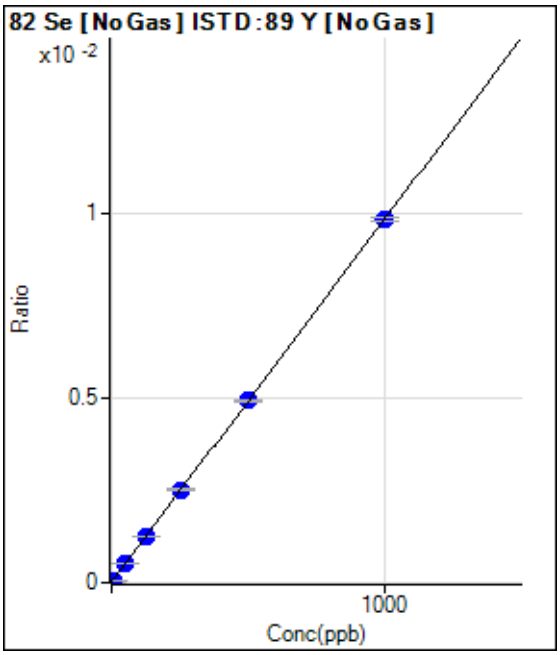


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			15893.12		P	1.0
2	☐			15247.98		P	2.4
3	☐			14733.01		P	3.4
4	☐			14836.41		P	2.2
5	☐			14818.63		P	0.9
6	☐			14856.47		P	2.6
7	☐			15451.51		P	3.0
8	☐			17052.16		P	2.0



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			112.22		P	15.
2	☐			84.44		P	25.
3	☐			90.00		P	9.8
4	☐			96.67		P	13.
5	☐			92.22		P	14.
6	☐			100.00		P	11.
7	☐			116.67		P	15.
8	☐			151.11		P	14.

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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	501.38	0.0000	P	21.
2	☐	5.000	5.006	2339.13	0.0001	P	3.7
3	☐	50.000	52.105	20275.86	0.0005	P	0.4
4	☐	125.000	126.707	47167.79	0.0013	P	0.2
5	☐	250.000	254.953	95831.64	0.0025	P	0.9
6	☐	500.000	499.759	185550.50	0.0049	P	1.2
7	☐	1000.000	998.564	381164.40	0.0098	P	1.0
8	☐			763.96	0.0000	P	10.

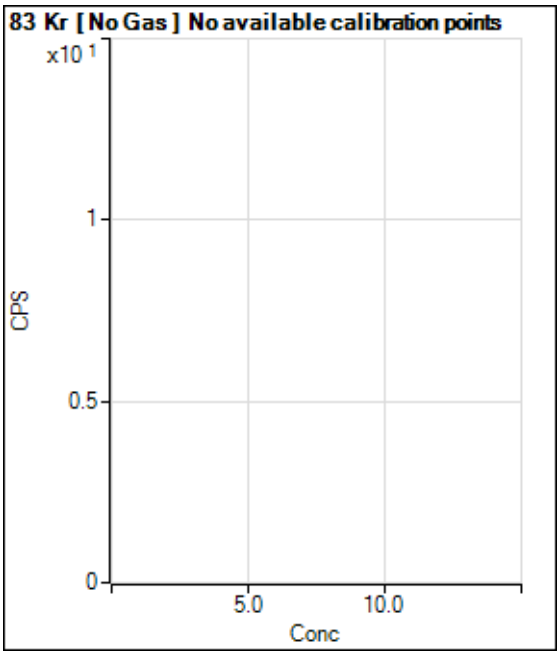
y = 9.8454E-006 * x + 1.3317E-005

R = 1.0000

DL = 0.8586

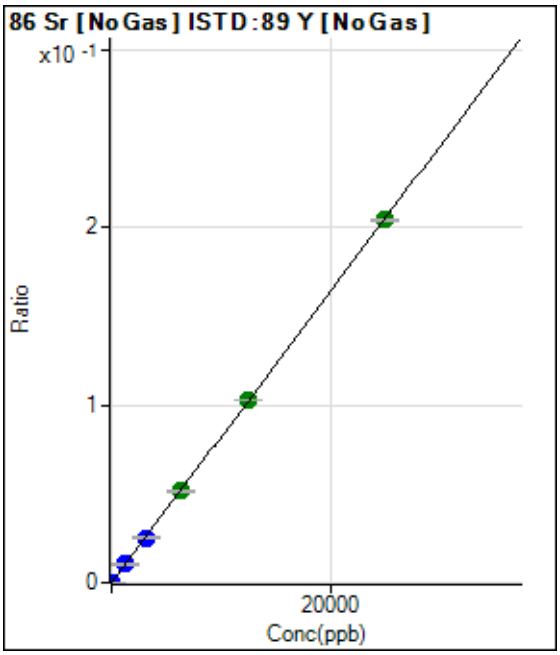
Weight: <None>

Min Conc: 0



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			312.23		P	9.9
2	☐			316.68		P	12.
3	☐			324.45		P	13.
4	☐			343.34		P	13.
5	☐			331.12		P	20.
6	☐			307.79		P	15.
7	☐			338.90		P	8.4
8	☐			423.34		P	12.

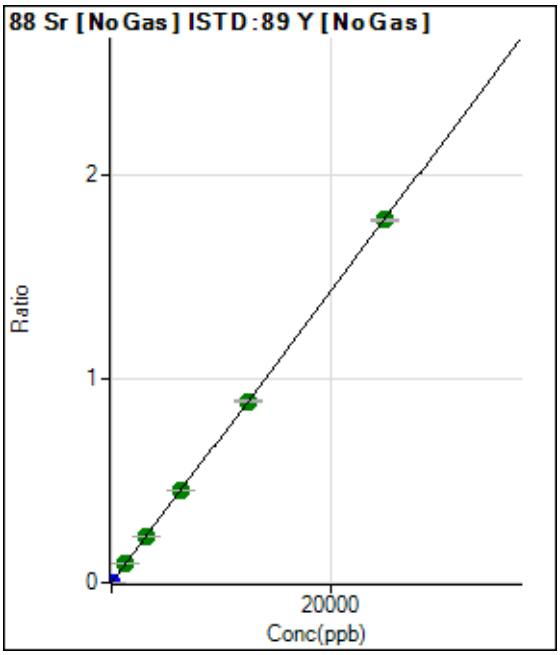
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	958.93	0.0000	P	3.3
2	☐	1.000	25.323	8691.53	0.0002	P	3.0
3	☐	1250.000	1257.806	397314.06	0.0103	P	0.7
4	☐	3125.000	3095.947	948314.16	0.0253	P	0.7
5	☐	6250.000	6294.658	1956334.85	0.0515	A	0.7
6	☐	12500.000	12561.323	3865116.50	0.1028	A	0.7
7	☐	25000.000	24961.414	7906309.05	0.2042	A	0.6
8	☐			25719.19	0.0007	P	0.2

y = 8.1794E-006 * x + 2.5441E-005
R = 1.0000
DL = 0.3045

Weight: <None>
Min Conc: 0

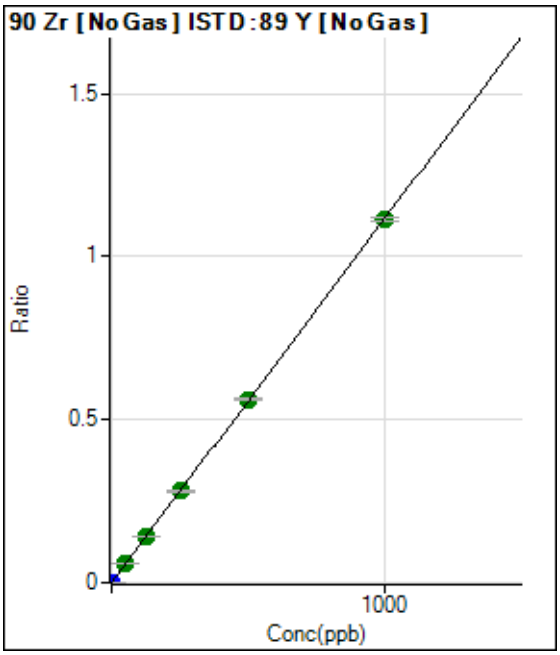


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	4060.60	0.0001	P	1.4
2	☐	1.000	25.523	72097.83	0.0019	P	2.2
3	☐	1250.000	1287.128	3543081.23	0.0920	A	0.8
4	☐	3125.000	3176.865	8486505.92	0.2268	A	0.8
5	☐	6250.000	6311.111	17110231.14	0.4505	A	0.4
6	☐	12500.000	12503.663	33567177.55	0.8925	A	0.5
7	☐	25000.000	24974.550	69018207.30	1.7826	A	0.6
8	☐			222438.15	0.0060	P	0.3

y = 7.1371E-005 * x + 1.0772E-004
R = 1.0000
DL = 0.06208

Weight: <None>
Min Conc: 0

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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	2309.09	0.0001	P	2.3
2	☐	1.000	0.992	43610.19	0.0012	P	3.0
3	☐	50.000	51.223	2202734.08	0.0572	A	0.6
4	☐	125.000	125.923	5255206.17	0.1405	A	0.8
5	☐	250.000	251.480	10651247.97	0.2805	A	1.5
6	☐	500.000	503.816	21130777.46	0.5618	A	0.6
7	☐	1000.000	997.545	43068849.36	1.1124	A	0.9
8	☐			25272.95	0.0007	P	2.8

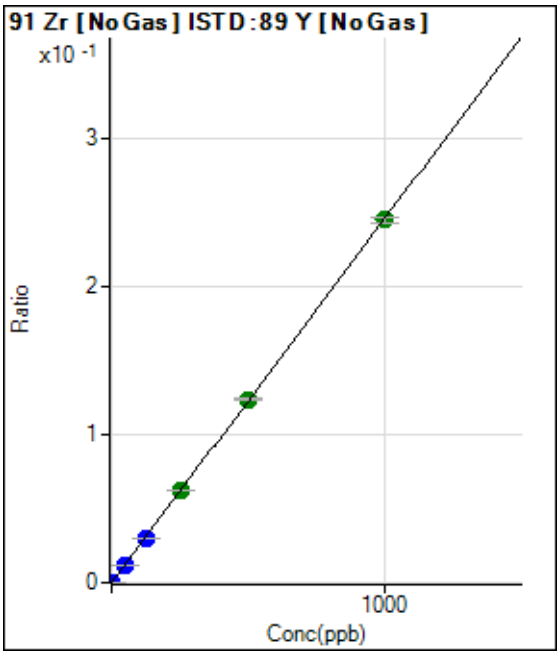
y = 0.0011 * x + 6.1254E-005

R = 1.0000

DL = 0.003791

Weight: <None>

Min Conc: 0



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	484.46	0.0000	P	4.5
2	☐	1.000	0.992	9575.42	0.0003	P	2.3
3	☐	50.000	50.028	473099.06	0.0123	P	0.5
4	☐	125.000	123.769	1135920.82	0.0304	P	0.5
5	☐	250.000	254.364	2369288.58	0.0624	A	0.7
6	☐	500.000	503.024	4639644.06	0.1234	A	1.0
7	☐	1000.000	997.549	9471299.10	0.2446	A	1.5
8	☐			5504.43	0.0001	P	8.2

y = 2.4522E-004 * x + 1.2856E-005

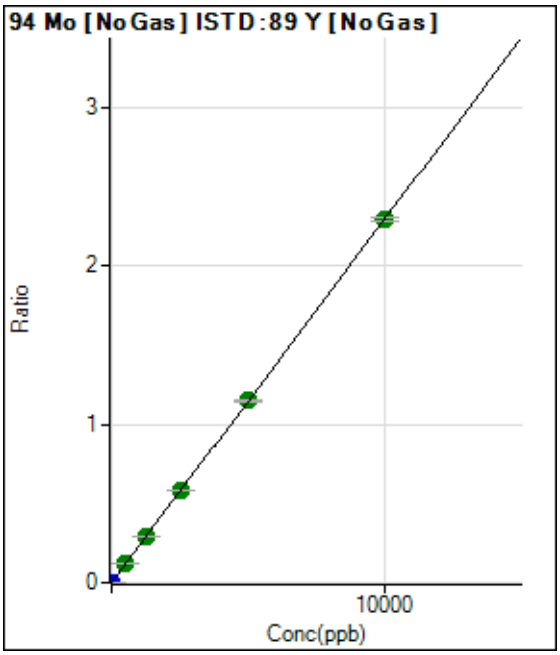
R = 1.0000

DL = 0.007044

Weight: <None>

Min Conc: 0

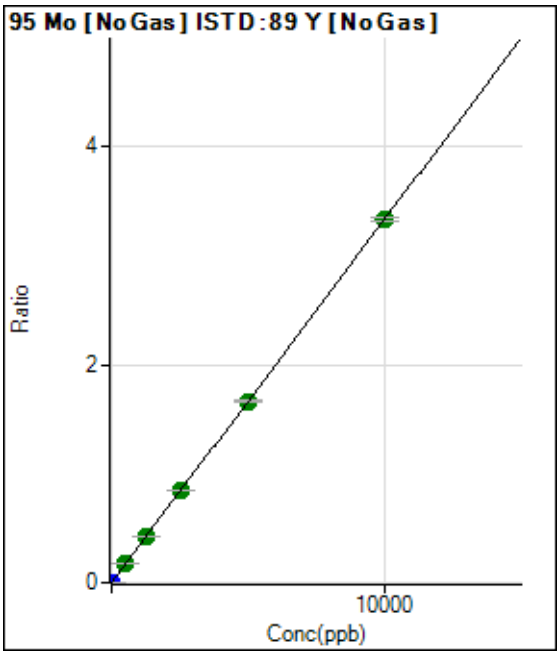
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	860.03	0.0000	P	7.6
2	☐	5.000	5.854	51052.02	0.0014	P	1.6
3	☐	500.000	508.547	4495879.86	0.1167	A	0.6
4	☐	1250.000	1261.876	10832317.75	0.2895	A	0.9
5	☐	2500.000	2523.559	21989695.51	0.5790	A	0.7
6	☐	5000.000	5007.607	43212476.58	1.1490	A	0.7
7	☐	10000.000	9988.395	88730889.79	2.2918	A	1.2
8	☐			21489.27	0.0006	P	4.6

y = 2.2944E-004 * x + 2.2814E-005
R = 1.0000
DL = 0.02266

Weight: <None>
Min Conc: 0

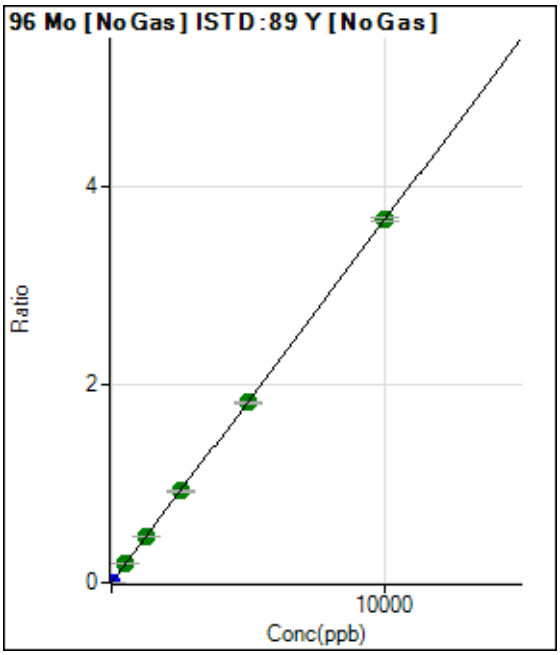


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	130.00	0.0000	P	19.
2	☐	5.000	4.943	61664.76	0.0017	P	1.7
3	☐	500.000	511.119	6558622.26	0.1703	A	1.2
4	☐	1250.000	1269.824	15823774.35	0.4230	A	0.6
5	☐	2500.000	2534.164	32056474.24	0.8441	A	0.8
6	☐	5000.000	4998.257	62615808.51	1.6649	A	0.7
7	☐	10000.000	9989.297	128825601.41	3.3274	A	1.2
8	☐			20573.48	0.0006	P	8.0

y = 3.3309E-004 * x + 3.4525E-006
R = 1.0000
DL = 0.005976

Weight: <None>
Min Conc: 0

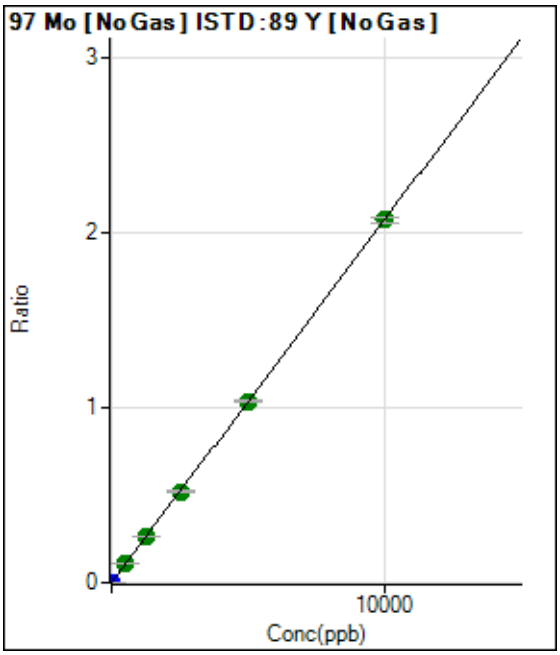
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	322.23	0.0000	P	16.
2	☐	5.000	5.020	68971.56	0.0018	P	1.9
3	☐	500.000	508.870	7173860.24	0.1862	A	0.7
4	☐	1250.000	1264.525	17311382.94	0.4627	A	0.3
5	☐	2500.000	2524.651	35084639.48	0.9239	A	0.9
6	☐	5000.000	4975.542	68474233.42	1.8207	A	1.2
7	☐	10000.000	10003.807	141733122.33	3.6607	A	1.1
8	☐			39903.40	0.0011	P	5.2

y = 3.6593E-004 * x + 8.5515E-006
R = 1.0000
DL = 0.01126

Weight: <None>
Min Conc: 0

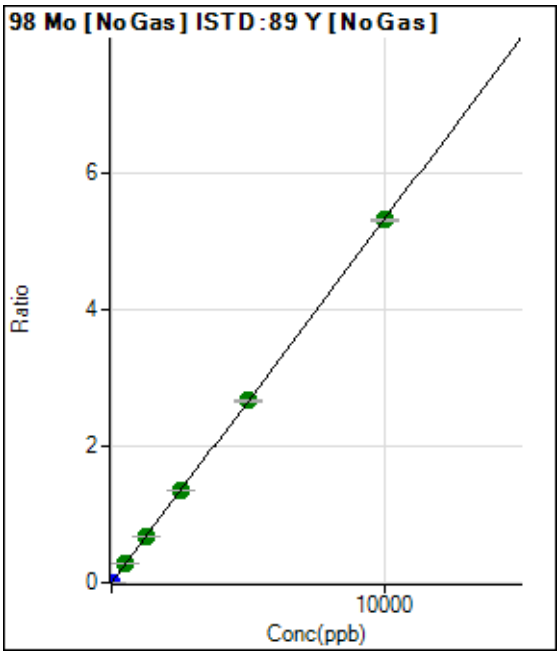


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	88.89	0.0000	P	5.0
2	☐	5.000	4.983	38679.96	0.0010	P	1.6
3	☐	500.000	508.833	4062555.29	0.1055	A	0.6
4	☐	1250.000	1254.895	9729700.90	0.2601	A	0.5
5	☐	2500.000	2516.515	19806313.18	0.5215	A	1.5
6	☐	5000.000	4990.678	38899344.98	1.0343	A	1.2
7	☐	10000.000	9999.479	80235798.80	2.0724	A	1.3
8	☐			12314.19	0.0003	P	8.3

y = 2.0725E-004 * x + 2.3577E-006
R = 1.0000
DL = 0.001719

Weight: <None>
Min Conc: 0

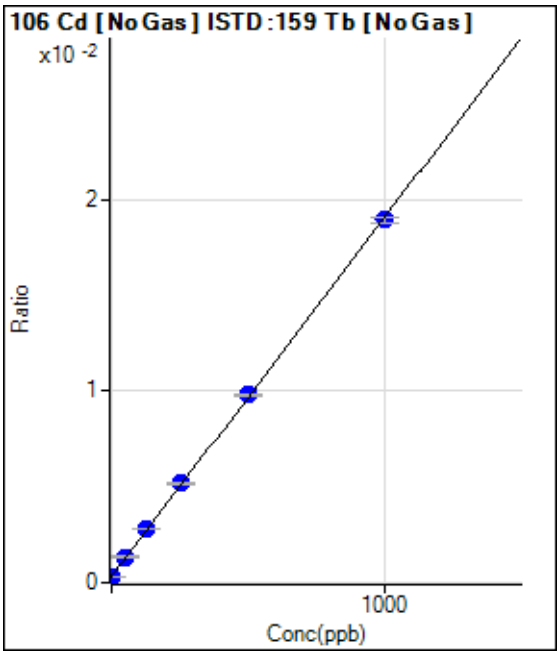
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	232.23	0.0000	P	6.8
2	☐	5.000	4.947	98449.96	0.0026	P	1.8
3	☐	500.000	508.816	10414439.22	0.2703	A	0.4
4	☐	1250.000	1266.308	25169306.01	0.6728	A	0.4
5	☐	2500.000	2523.781	50921256.46	1.3409	A	0.8
6	☐	5000.000	5018.593	100277121.84	2.6663	A	1.2
7	☐	10000.000	9982.279	205340305.83	5.3035	A	0.8
8	☐			31260.26	0.0008	P	8.5

y = 5.3129E-004 * x + 6.1622E-006
R = 1.0000
DL = 0.002349

Weight: <None>
Min Conc: 0

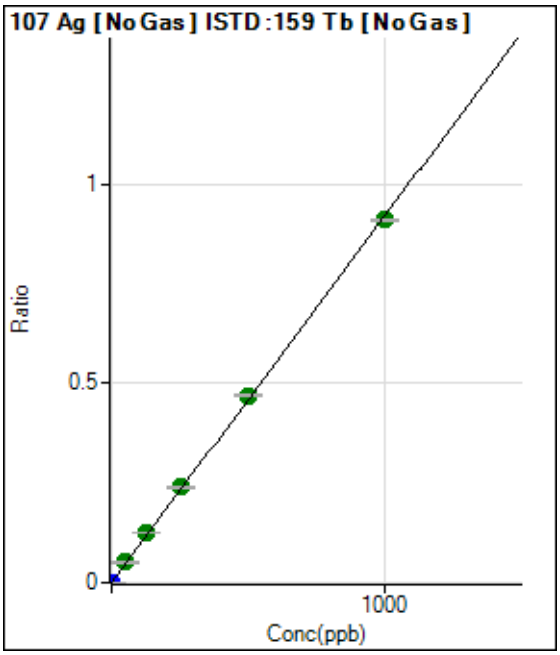


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	10498.32	0.0003	P	1.9
2	☐	1.000	1.161	11045.40	0.0003	P	0.8
3	☐	50.000	54.802	45148.90	0.0014	P	2.3
4	☐	125.000	133.354	93379.67	0.0028	P	0.9
5	☐	250.000	259.841	176586.44	0.0052	P	1.2
6	☐	500.000	505.275	331671.60	0.0098	P	0.7
7	☐	1000.000	993.618	665509.29	0.0190	P	1.6
8	☐			10598.38	0.0003	P	0.6

y = 1.8756E-005 * x + 3.2215E-004
R = 0.9999
DL = 0.9838

Weight: <None>
Min Conc: 0

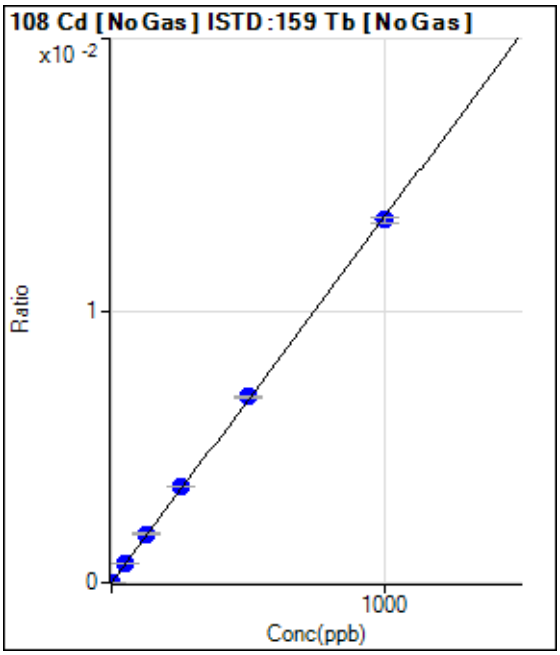
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	178.89	0.0000	P	7.7
2	☐	1.000	1.086	32235.86	0.0010	P	2.9
3	☐	50.000	55.173	1696409.82	0.0507	A	0.7
4	☐	125.000	134.332	4084263.55	0.1235	A	0.6
5	☐	250.000	260.628	8142535.57	0.2396	A	0.7
6	☐	500.000	510.747	15890726.71	0.4695	A	0.8
7	☐	1000.000	990.544	31965587.86	0.9105	A	0.5
8	☐			4221.77	0.0001	P	10.

y = 9.1920E-004 * x + 5.4882E-006
R = 0.9998
DL = 0.001375

Weight: <None>
Min Conc: 0

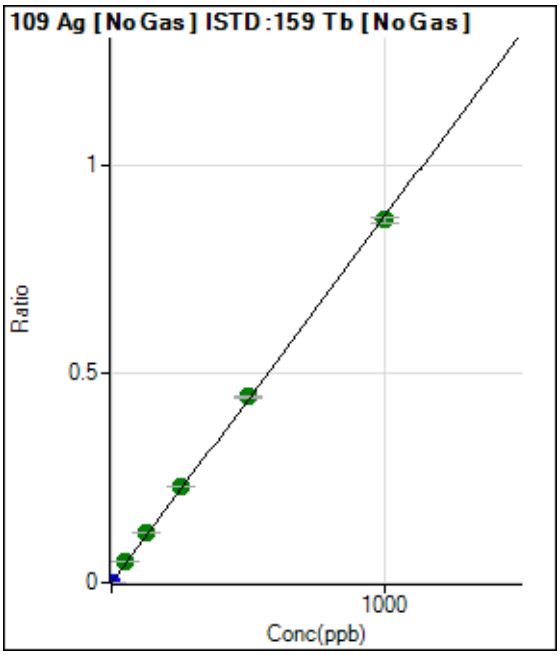


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	24.44	0.0000	P	57.
2	☐	1.000	1.147	520.01	0.0000	P	4.1
3	☐	50.000	54.537	24579.77	0.0007	P	1.6
4	☐	125.000	133.338	59392.03	0.0018	P	2.0
5	☐	250.000	261.547	119696.48	0.0035	P	0.9
6	☐	500.000	507.939	231475.91	0.0068	P	0.8
7	☐	1000.000	991.874	468758.58	0.0134	P	1.7
8	☐			256.67	0.0000	P	19.

y = 1.3462E-005 * x + 7.5261E-007
R = 0.9999
DL = 0.09647

Weight: <None>
Min Conc: 0

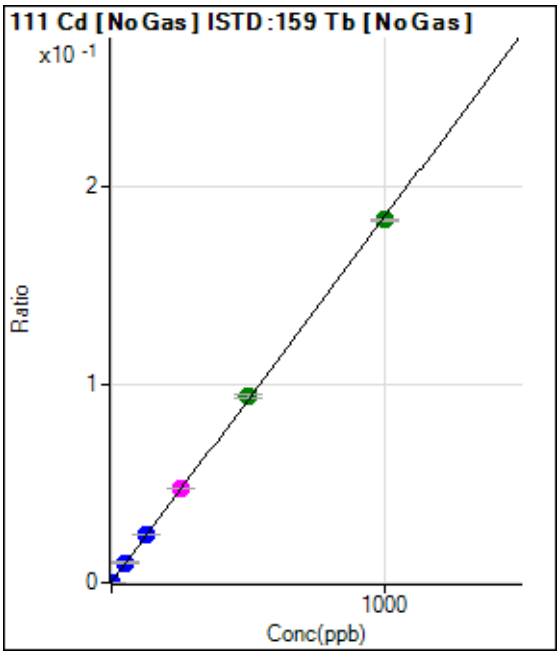
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	84.44	0.0000	P	25.
2	☐	1.000	1.086	30673.55	0.0010	P	2.9
3	☐	50.000	55.552	1629511.47	0.0487	A	0.8
4	☐	125.000	135.334	3925423.03	0.1187	A	1.6
5	☐	250.000	263.149	7843681.97	0.2308	A	0.8
6	☐	500.000	509.004	15108958.25	0.4464	A	1.0
7	☐	1000.000	990.641	30497975.94	0.8688	A	1.3
8	☐			4003.93	0.0001	P	16.

y = 8.7699E-004 * x + 2.5870E-006
R = 0.9998
DL = 0.002226

Weight: <None>
Min Conc: 0

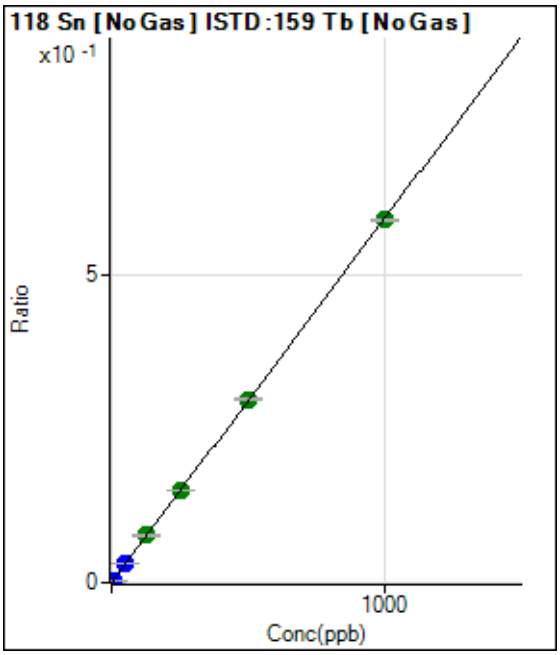


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	7369.49	0.0002	P	1.8
2	☐	1.000	1.143	14031.60	0.0004	P	1.6
3	☐	50.000	53.938	340422.09	0.0102	P	0.9
4	☐	125.000	130.864	806113.66	0.0244	P	0.5
5	☐	250.000	258.174	1626804.35	0.0479	M	0.2
6	☐	500.000	509.933	3192203.32	0.0943	A	1.4
7	☐	1000.000	992.060	6434044.02	0.1833	A	0.7
8	☐			8578.16	0.0003	P	1.3

y = 1.8451E-004 * x + 2.2614E-004
R = 0.9999
DL = 0.06678

Weight: <None>
Min Conc: 0

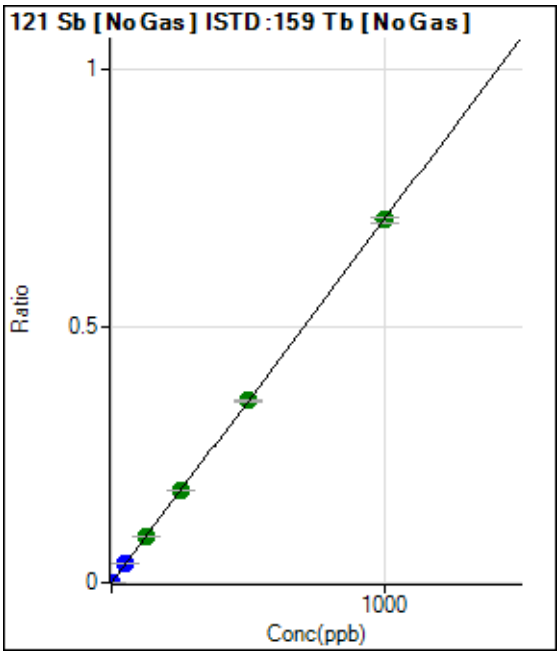
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	8101.23	0.0002	P	3.6
2	☐	5.000	5.264	108195.70	0.0034	P	2.9
3	☐	50.000	52.011	1039551.88	0.0311	P	1.0
4	☐	125.000	129.759	2552291.49	0.0772	A	1.8
5	☐	250.000	252.713	5100212.74	0.1501	A	1.1
6	☐	500.000	503.714	10115680.61	0.2989	A	0.8
7	☐	1000.000	996.768	20753439.41	0.5912	A	0.7
8	☐			10174.79	0.0003	P	2.5

y = 5.9283E-004 * x + 2.4861E-004
R = 1.0000
DL = 0.04468

Weight: <None>
Min Conc: 0

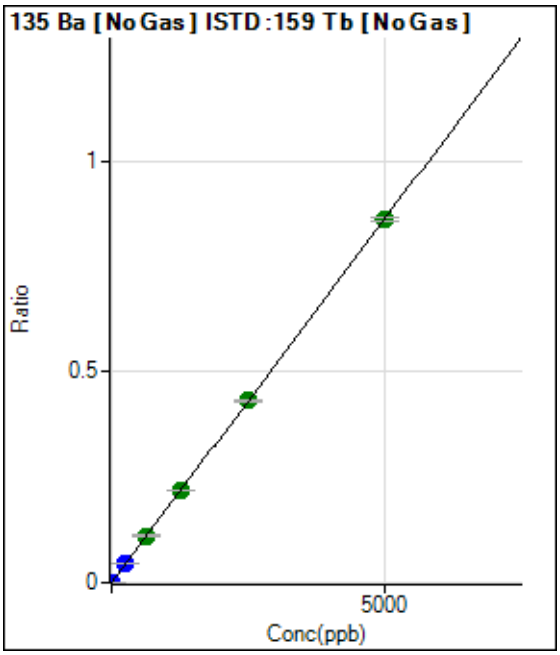


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	114.45	0.0000	P	25.
2	☐	2.000	2.115	48186.01	0.0015	P	2.1
3	☐	50.000	51.522	1220022.24	0.0365	P	0.8
4	☐	125.000	128.969	3019945.61	0.0913	A	0.7
5	☐	250.000	253.224	6092838.94	0.1793	A	1.0
6	☐	500.000	500.754	11999237.32	0.3545	A	0.6
7	☐	1000.000	998.245	24808272.68	0.7067	A	1.4
8	☐			11984.01	0.0004	P	10.

y = 7.0794E-004 * x + 3.5061E-006
R = 1.0000
DL = 0.003829

Weight: <None>
Min Conc: 0

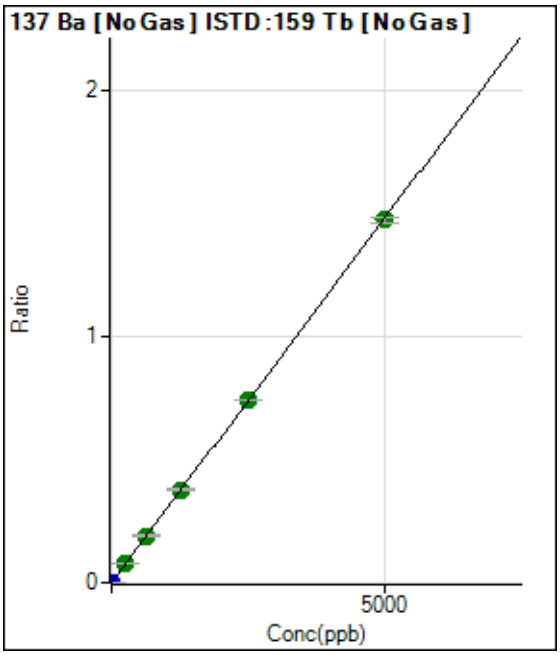
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	316.67	0.0000	P	5.8
2	☐	10.000	10.287	57236.71	0.0018	P	3.2
3	☐	250.000	254.889	1469375.34	0.0439	P	0.7
4	☐	625.000	647.582	3691092.52	0.1116	A	1.0
5	☐	1250.000	1266.721	7419428.01	0.2183	A	0.6
6	☐	2500.000	2504.077	14606572.28	0.4315	A	0.5
7	☐	5000.000	4990.714	30191203.72	0.8600	A	1.1
8	☐			11748.26	0.0004	P	3.1

y = 1.7232E-004 * x + 9.7196E-006
R = 1.0000
DL = 0.009854

Weight: <None>
Min Conc: 0

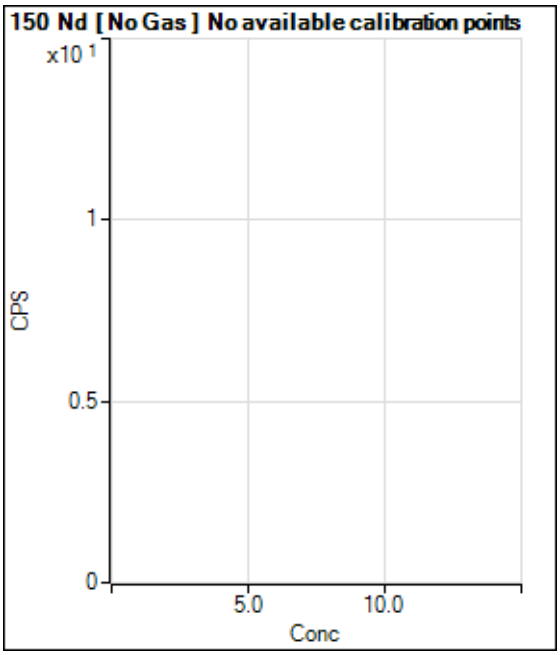


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	563.35	0.0000	P	10.
2	☐	10.000	10.432	99638.29	0.0031	P	3.4
3	☐	250.000	266.299	2634996.05	0.0788	A	0.6
4	☐	625.000	644.569	6306066.71	0.1907	A	1.0
5	☐	1250.000	1271.907	12786630.50	0.3762	A	1.8
6	☐	2500.000	2519.177	25222012.68	0.7451	A	0.2
7	☐	5000.000	4981.673	51726688.67	1.4735	A	1.3
8	☐			20993.35	0.0006	P	3.2

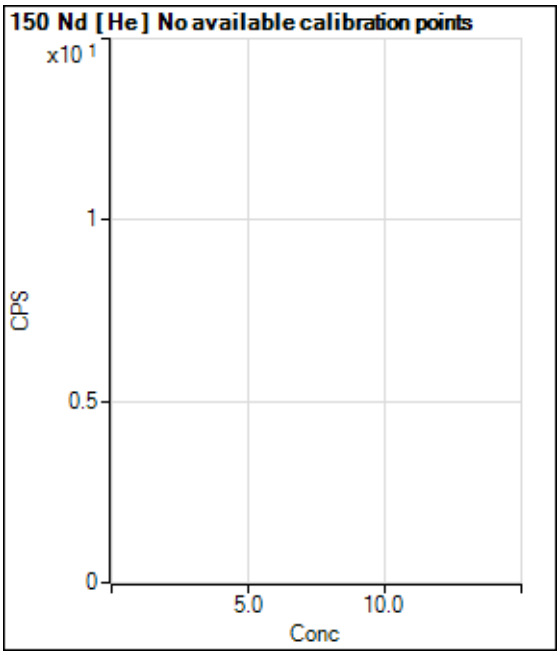
y = 2.9578E-004 * x + 1.7279E-005
R = 1.0000
DL = 0.01779

Weight: <None>
Min Conc: 0

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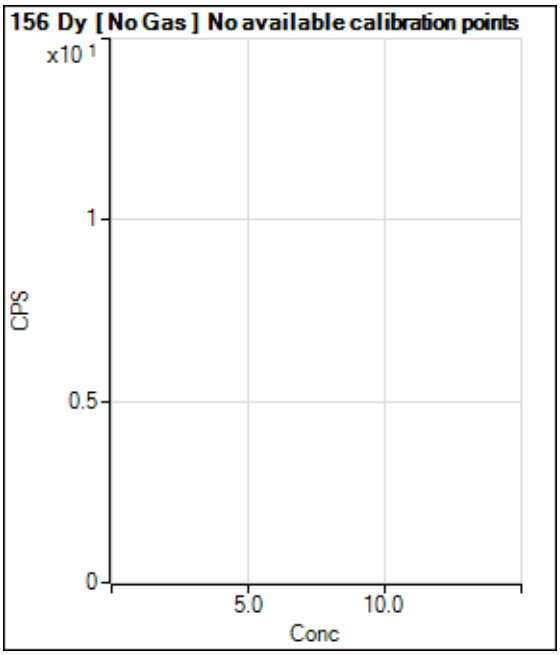


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			28.89		P	17.
2	☐			15.56		P	65.
3	☐			95.56		P	15.
4	☐			172.23		P	11.
5	☐			318.89		P	11.
6	☐			662.25		P	11.
7	☐			1340.08		P	10.
8	☐			532.24		P	6.4

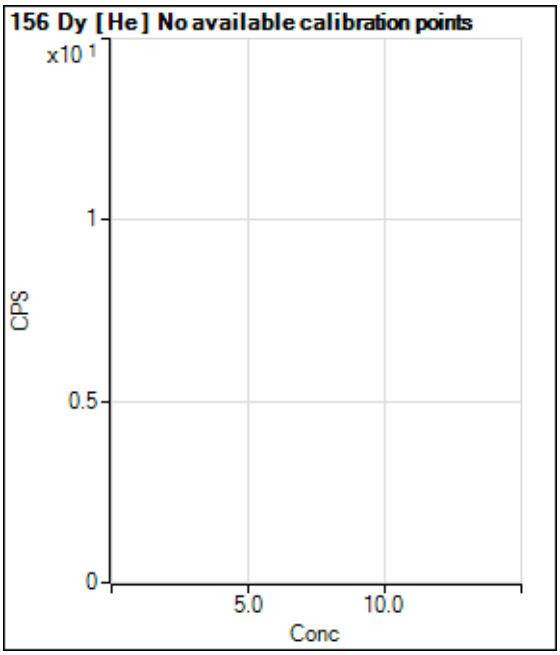


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			13.33		P	75.
2	☐			13.33		P	66.
3	☐			36.67		P	24.
4	☐			48.89		P	57.
5	☐			84.44		P	22.
6	☐			152.23		P	10.
7	☐			313.34		P	12.
8	☐			285.56		P	8.8

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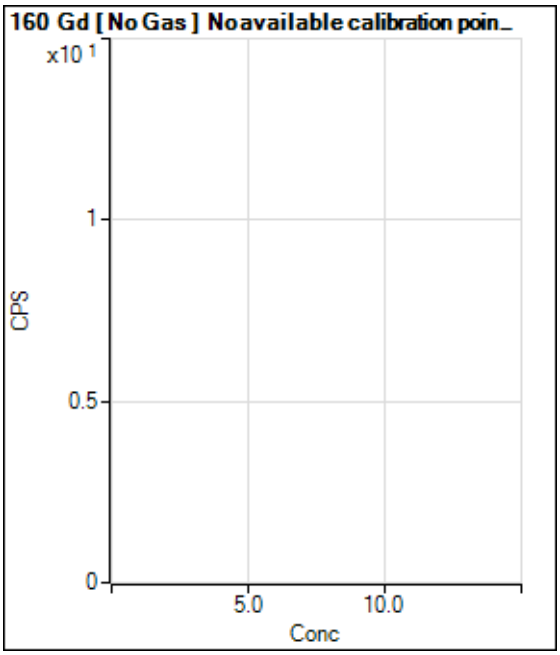


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			80.00		P	20.
2	☐			83.33		P	24.
3	☐			72.22		P	31.
4	☐			137.78		P	13.
5	☐			185.56		P	17.
6	☐			341.12		P	6.4
7	☐			521.13		P	7.6
8	☐			923.37		P	2.5

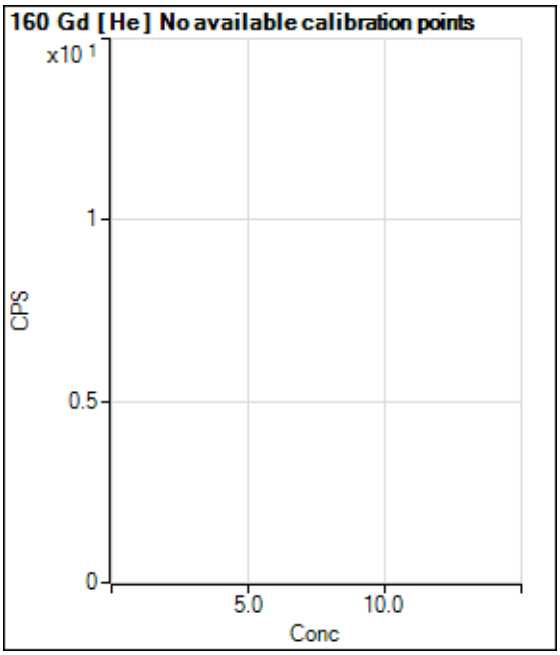


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			20.00		P	16.
2	☐			24.44		P	63.
3	☐			97.78		P	27.
4	☐			166.67		P	13.
5	☐			326.68		P	11.
6	☐			660.02		P	4.6
7	☐			1346.75		P	2.6
8	☐			731.14		P	2.5

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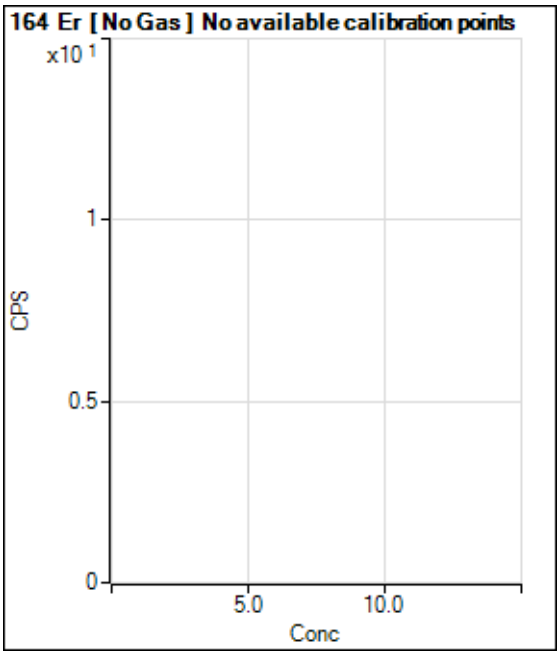


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			152.23		P	11.
2	☐			158.89		P	4.8
3	☐			146.67		P	12.
4	☐			181.11		P	15.
5	☐			216.67		P	3.1
6	☐			278.90		P	3.7
7	☐			353.34		P	9.8
8	☐			953.38		P	10.

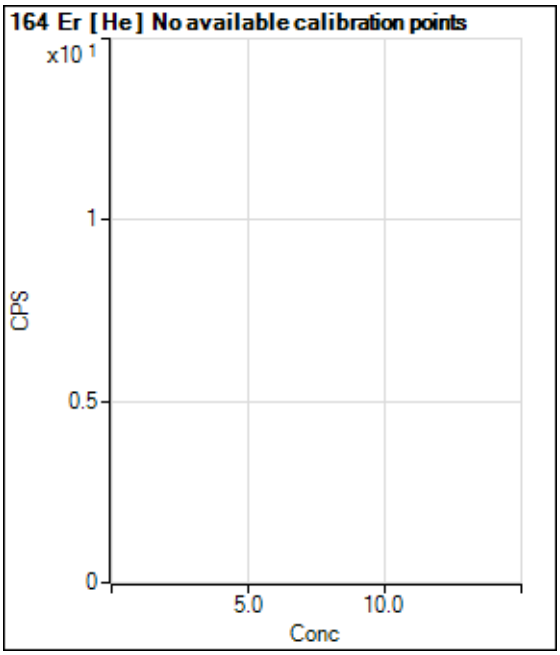


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			1186.73		P	8.7
2	☐			1250.07		P	5.5
3	☐			1297.85		P	10.
4	☐			1236.74		P	7.8
5	☐			1298.96		P	8.1
6	☐			1247.85		P	8.7
7	☐			1378.97		P	1.0
8	☐			1731.24		P	3.6

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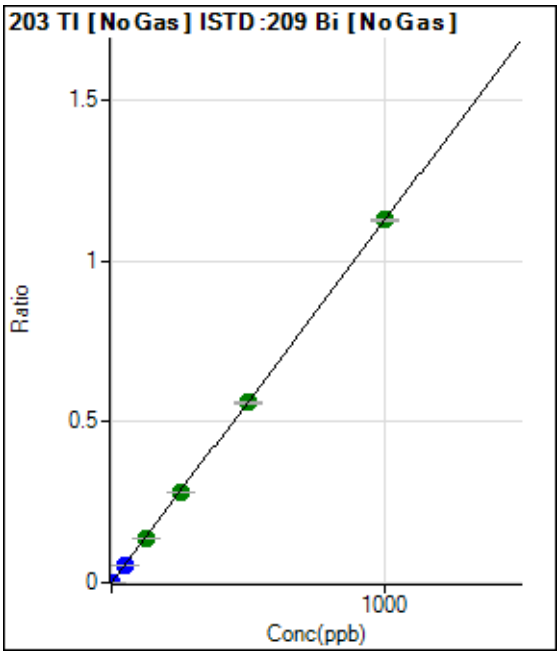


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			124.45		P	9.4
2	☐			121.12		P	3.2
3	☐			156.67		P	11.
4	☐			172.23		P	3.0
5	☐			202.23		P	25.
6	☐			292.23		P	11.
7	☐			432.23		P	2.9
8	☐			1112.28		P	7.7



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			97.78		P	27.
2	☐			84.44		P	20.
3	☐			104.45		P	40.
4	☐			96.67		P	17.
5	☐			134.45		P	12.
6	☐			193.34		P	17.
7	☐			312.23		P	6.9
8	☐			735.59		P	5.2

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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	261.12	0.0000	P	12.
2	☐	1.000	0.982	20314.13	0.0011	P	1.6
3	☐	50.000	49.223	1048735.55	0.0555	P	0.9
4	☐	125.000	122.904	2612280.83	0.1384	A	0.7
5	☐	250.000	248.190	5365399.88	0.2795	A	0.9
6	☐	500.000	497.641	10664048.10	0.5605	A	1.5
7	☐	1000.000	1001.933	21996341.06	1.1284	A	0.5
8	☐			1799.04	0.0001	P	28.

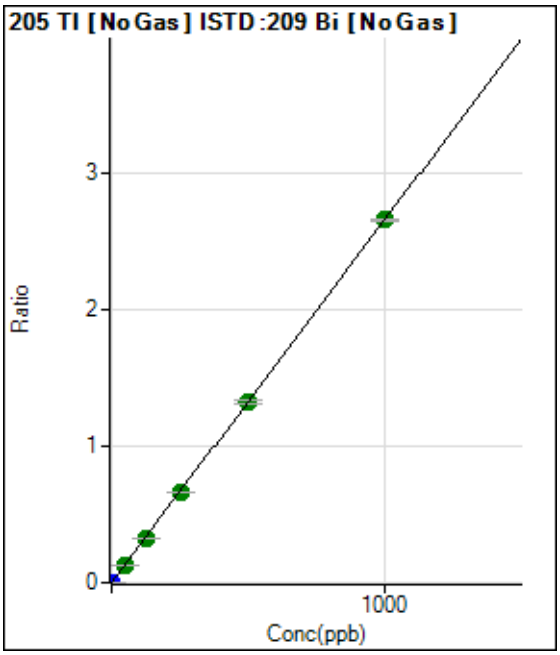
y = 0.0011 * x + 1.4301E-005

R = 1.0000

DL = 0.004856

Weight: <None>

Min Conc: 0



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	575.57	0.0000	P	6.1
2	☐	1.000	0.996	48596.50	0.0027	P	2.4
3	☐	50.000	49.960	2511886.82	0.1328	A	0.6
4	☐	125.000	123.517	6195059.21	0.3283	A	0.5
5	☐	250.000	249.390	12721745.23	0.6628	A	1.6
6	☐	500.000	499.315	25250075.74	1.3271	A	1.7
7	☐	1000.000	1000.683	51842592.56	2.6596	A	0.6
8	☐			4272.97	0.0003	P	22.

y = 0.0027 * x + 3.1522E-005

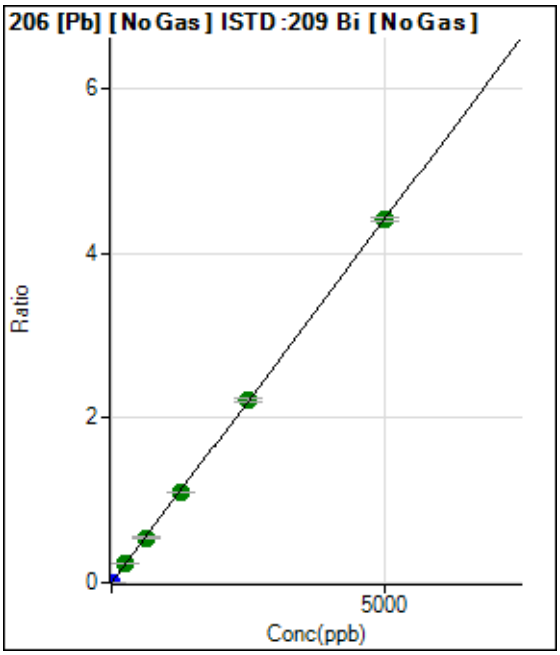
R = 1.0000

DL = 0.002168

Weight: <None>

Min Conc: 0

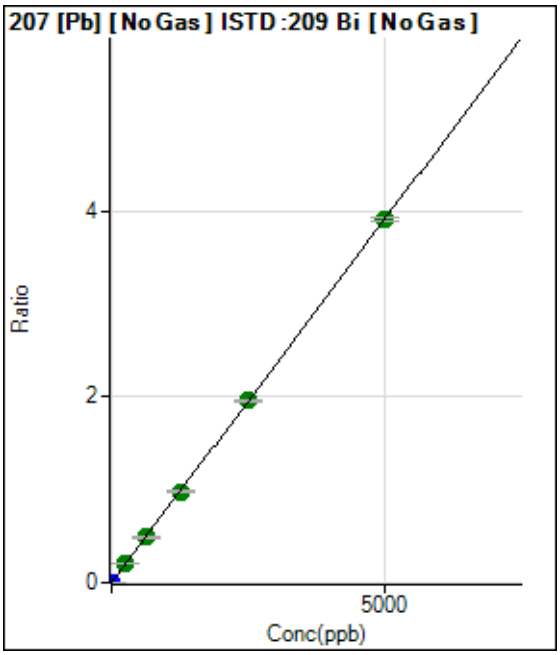
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	2504.71	0.0001	P	4.4
2	☐	1.000	0.993	18385.85	0.0010	P	1.4
3	☐	250.000	253.752	4238607.75	0.2241	A	1.5
4	☐	625.000	620.016	10329331.93	0.5474	A	1.0
5	☐	1250.000	1248.843	21160605.38	1.1025	A	1.3
6	☐	2500.000	2514.075	42226739.37	2.2193	A	1.7
7	☐	5000.000	4993.687	85925206.50	4.4081	A	1.0
8	☐			12271.22	0.0007	P	9.3

y = 8.8270E-004 * x + 1.3721E-004
R = 1.0000
DL = 0.02033

Weight: <None>
Min Conc: 0

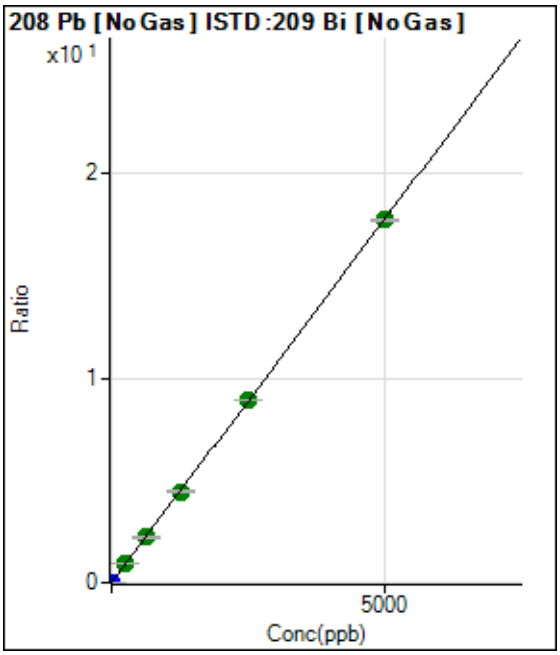


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	2115.74	0.0001	P	5.8
2	☐	1.000	0.999	16275.40	0.0009	P	1.6
3	☐	250.000	254.755	3772494.98	0.1995	A	2.1
4	☐	625.000	622.613	9195325.42	0.4873	A	1.4
5	☐	1250.000	1250.443	18783014.58	0.9787	A	1.6
6	☐	2500.000	2507.101	37333340.56	1.9621	A	0.6
7	☐	5000.000	4996.399	76216572.75	3.9101	A	1.1
8	☐			10850.01	0.0006	P	8.7

y = 7.8255E-004 * x + 1.1587E-004
R = 1.0000
DL = 0.0258

Weight: <None>
Min Conc: 0

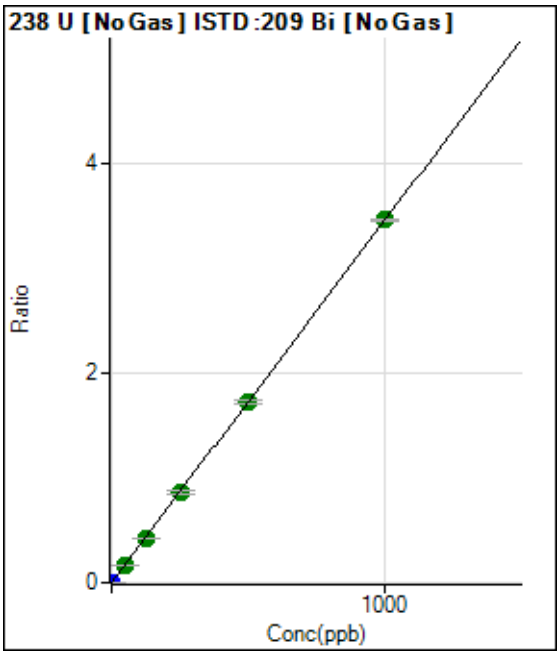
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	9865.95	0.0005	P	2.4
2	☐	1.000	0.991	73668.27	0.0041	P	1.6
3	☐	250.000	253.769	17071448.77	0.9027	A	1.1
4	☐	625.000	624.744	41915624.79	2.2214	A	1.1
5	☐	1250.000	1254.447	85598338.16	4.4599	A	1.6
6	☐	2500.000	2511.464	169886813.02	8.9285	A	0.8
7	☐	5000.000	4993.000	345995823.17	17.7500	A	0.6
8	☐			49179.78	0.0029	P	9.0

y = 0.0036 * x + 5.4049E-004
R = 1.0000
DL = 0.01076

Weight: <None>
Min Conc: 0

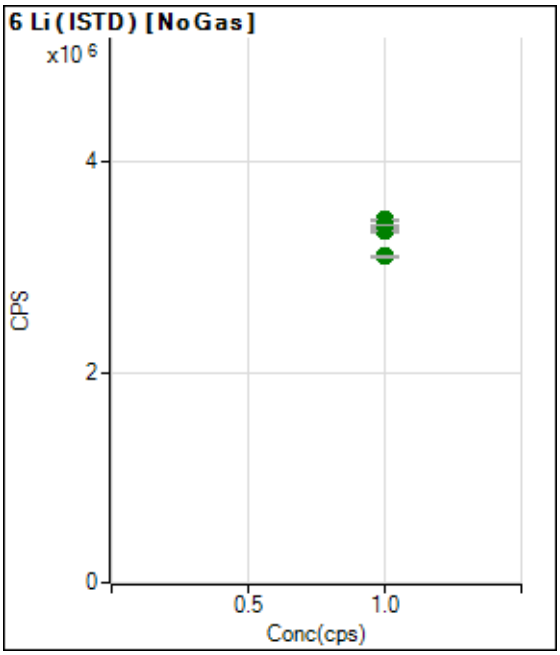


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	45.55	0.0000	P	14.
2	☐	1.000	0.940	58830.33	0.0032	P	2.3
3	☐	50.000	48.942	3190832.17	0.1687	A	2.1
4	☐	125.000	121.118	7877811.27	0.4175	A	1.1
5	☐	250.000	248.186	16416731.42	0.8555	A	3.4
6	☐	500.000	497.560	32632314.51	1.7151	A	2.4
7	☐	1000.000	1002.212	67342707.89	3.4547	A	0.5
8	☐			4775.39	0.0003	P	23.

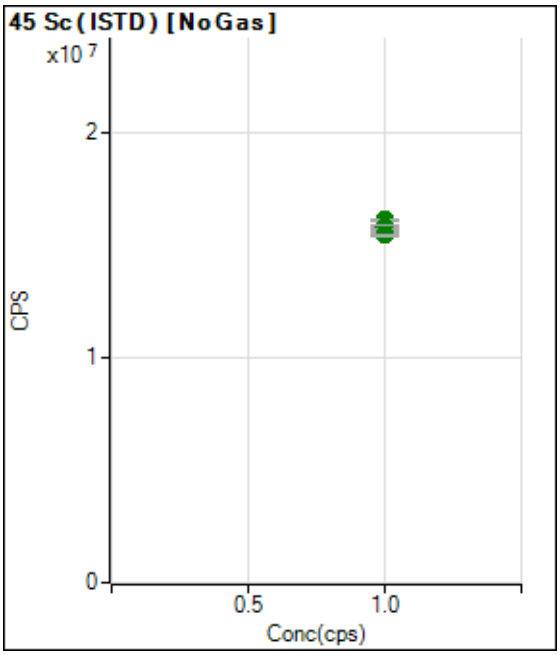
y = 0.0034 * x + 2.4930E-006
R = 1.0000
DL = 0.0003028

Weight: <None>
Min Conc: 0

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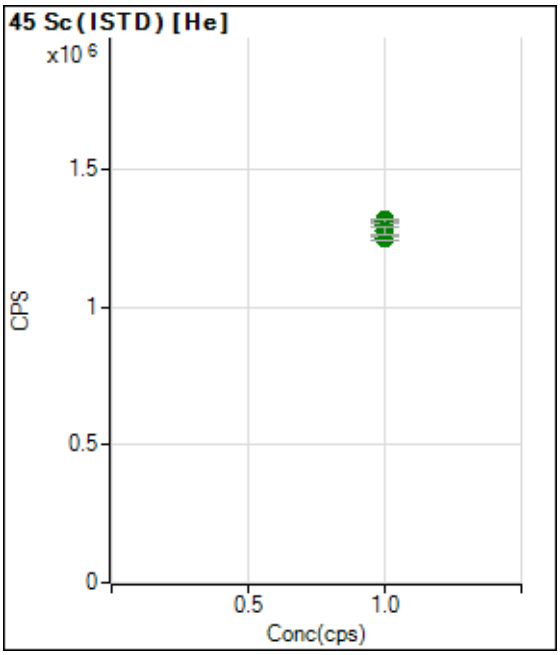


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		3356230.92		A	1.4
2	☐	1.000		3353139.40		A	1.9
3	☐	1.000		3432029.76		A	1.8
4	☐	1.000		3357930.00		A	1.3
5	☐	1.000		3448118.83		A	0.5
6	☐	1.000		3348251.32		A	0.3
7	☐	1.000		3399624.38		A	0.5
8	☐	1.000		3098615.12		A	0.4

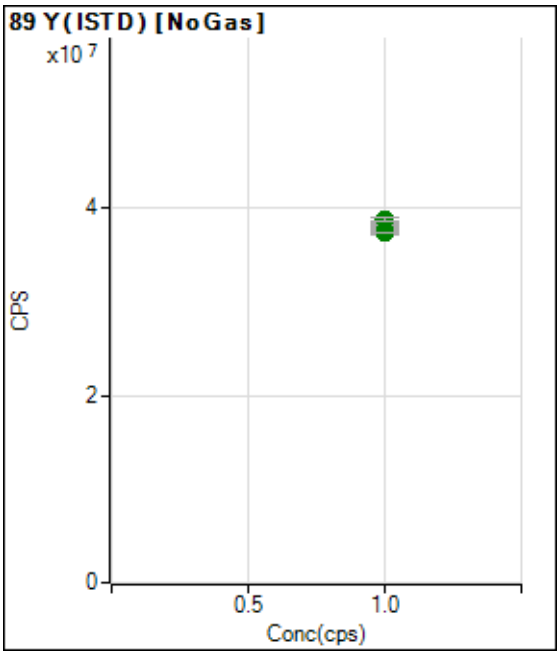


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		16065681.98		A	1.6
2	☐	1.000		15800088.93		A	0.7
3	☐	1.000		16131986.84		A	0.4
4	☐	1.000		15620471.30		A	0.7
5	☐	1.000		15750348.24		A	1.0
6	☐	1.000		15471175.46		A	0.7
7	☐	1.000		15815719.07		A	0.8
8	☐	1.000		15444002.27		A	0.9

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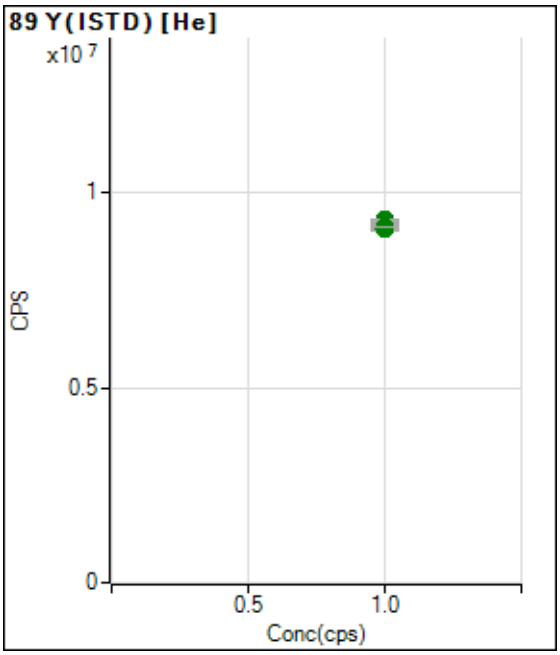


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1	☐	1.000		1317102.94		A	0.8
2	☐	1.000		1297538.26		A	1.1
3	☐	1.000		1292977.34		A	0.2
4	☐	1.000		1263134.73		A	0.5
5	☐	1.000		1250863.16		A	1.0
6	☐	1.000		1249106.73		A	0.8
7	☐	1.000		1313905.75		A	0.8
8	☐	1.000		1275139.93		A	2.1

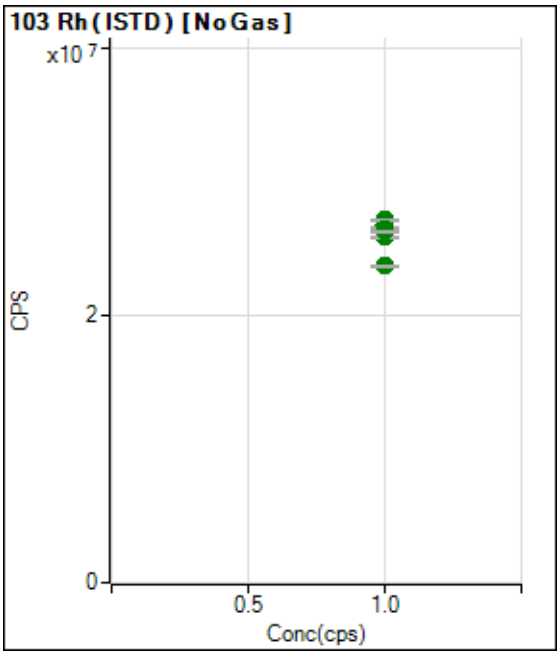


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		37692033.88		A	0.9
2	☐	1.000		37369276.11		A	0.7
3	☐	1.000		38524209.15		A	0.5
4	☐	1.000		37411003.61		A	0.0
5	☐	1.000		37977584.43		A	0.5
6	☐	1.000		37610325.00		A	0.5
7	☐	1.000		38719700.26		A	0.9
8	☐	1.000		37356195.28		A	0.2

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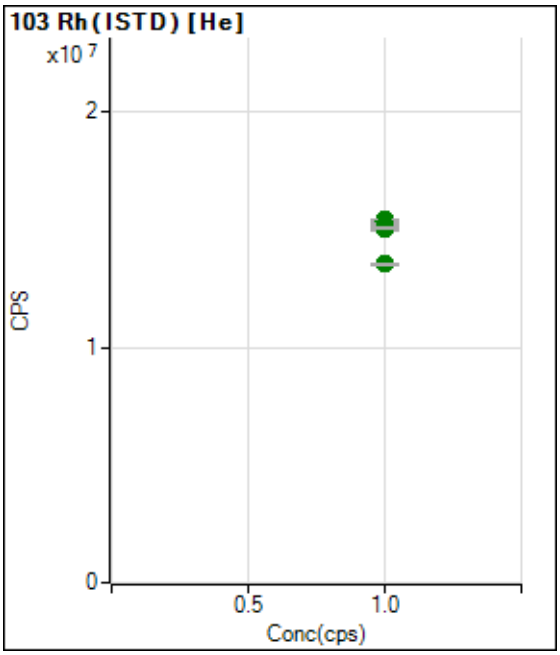


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		9133141.04		A	0.6
2	☐	1.000		9079800.91		A	0.8
3	☐	1.000		9182128.48		A	0.5
4	☐	1.000		9092798.89		A	0.4
5	☐	1.000		9196539.52		A	0.4
6	☐	1.000		9072562.78		A	1.0
7	☐	1.000		9298856.25		A	0.4
8	☐	1.000		9113969.93		A	0.4

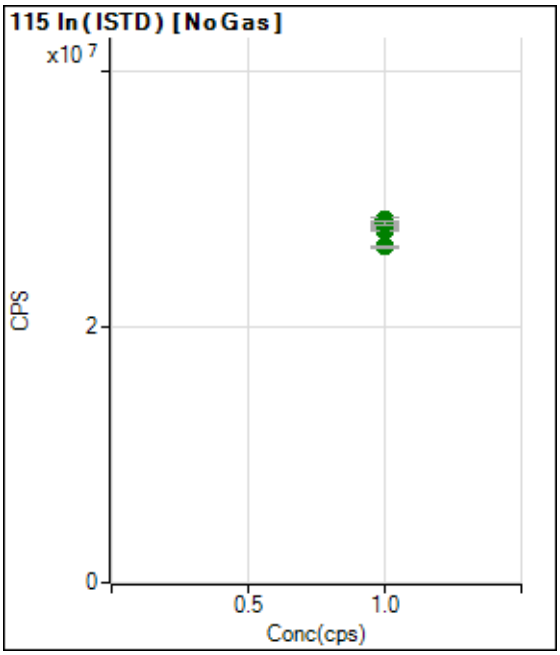


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		26831474.60		A	2.0
2	☐	1.000		26410067.11		A	0.6
3	☐	1.000		27149916.26		A	0.7
4	☐	1.000		26330623.49		A	0.5
5	☐	1.000		26507202.11		A	0.2
6	☐	1.000		25832257.11		A	0.7
7	☐	1.000		26290708.50		A	0.4
8	☐	1.000		23719342.42		A	0.7

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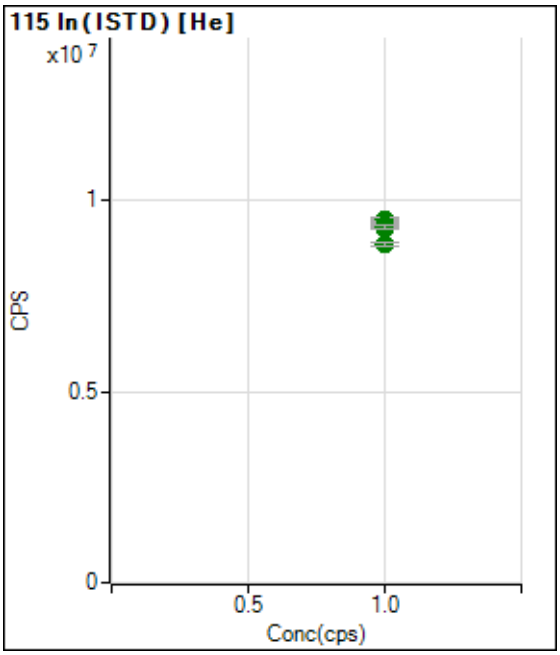


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		15421130.74		A	0.5
2	☐	1.000		15346195.88		A	0.9
3	☐	1.000		15361834.49		A	1.2
4	☐	1.000		15194478.80		A	1.2
5	☐	1.000		15207023.11		A	0.2
6	☐	1.000		15014934.78		A	0.5
7	☐	1.000		15044509.91		A	0.5
8	☐	1.000		13555822.44		A	0.7

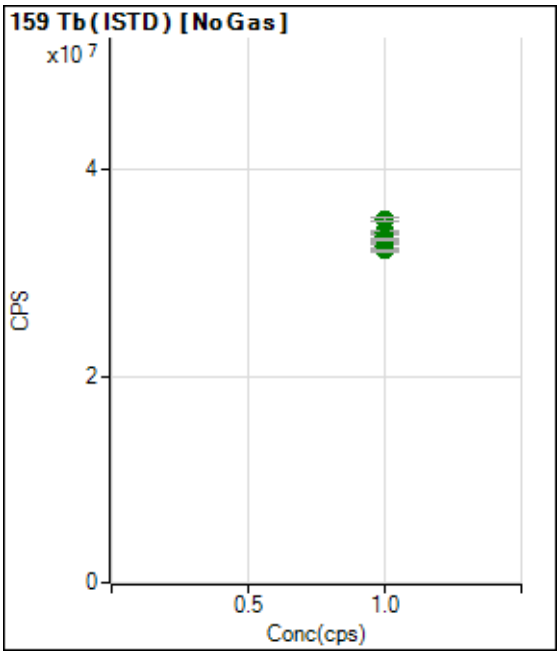


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		28044417.19		A	1.0
2	☐	1.000		27520502.12		A	0.5
3	☐	1.000		28358945.37		A	1.1
4	☐	1.000		27900896.77		A	0.5
5	☐	1.000		27946190.24		A	1.0
6	☐	1.000		27528629.50		A	0.2
7	☐	1.000		28140779.25		A	0.8
8	☐	1.000		26246994.64		A	0.7

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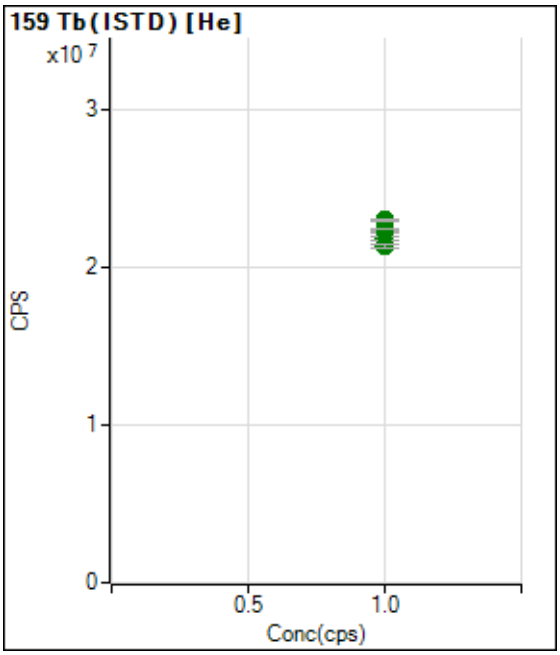


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		9417086.75		A	1.5
2	☐	1.000		9395030.46		A	1.4
3	☐	1.000		9490613.56		A	1.2
4	☐	1.000		9334386.58		A	1.0
5	☐	1.000		9376466.68		A	1.0
6	☐	1.000		9274734.42		A	0.8
7	☐	1.000		9298485.53		A	0.8
8	☐	1.000		8835321.68		A	1.1

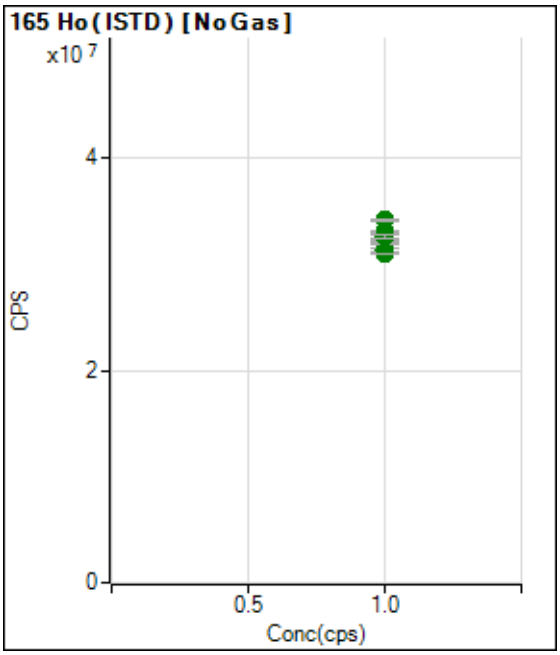


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		32585066.18		A	1.0
2	☐	1.000		32114516.47		A	0.8
3	☐	1.000		33447185.89		A	1.0
4	☐	1.000		33075622.28		A	1.1
5	☐	1.000		33988647.27		A	0.8
6	☐	1.000		33848810.05		A	0.9
7	☐	1.000		35107757.53		A	1.2
8	☐	1.000		33292240.06		A	0.6

Reviewed By:Mohan
On:11/21/2024 4:25:15 AM
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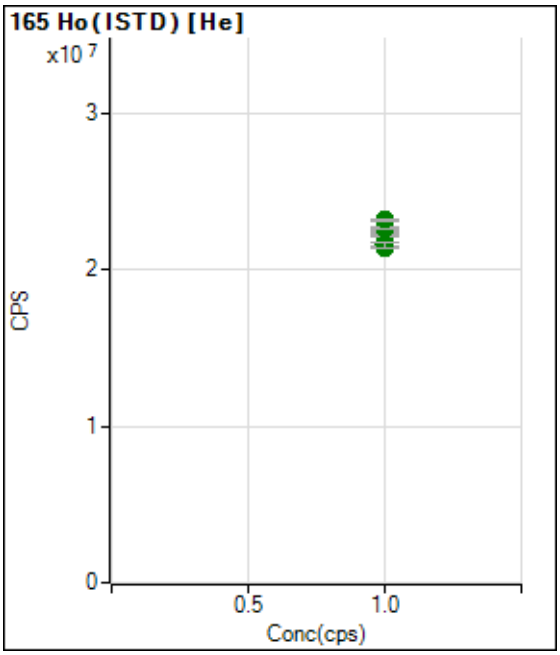


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		21814354.68		A	0.6
2	☐	1.000		21453517.46		A	0.4
3	☐	1.000		22254844.39		A	0.6
4	☐	1.000		21786333.01		A	1.2
5	☐	1.000		22306524.67		A	0.5
6	☐	1.000		22420419.66		A	0.5
7	☐	1.000		22992054.10		A	0.5
8	☐	1.000		21309992.04		A	0.8

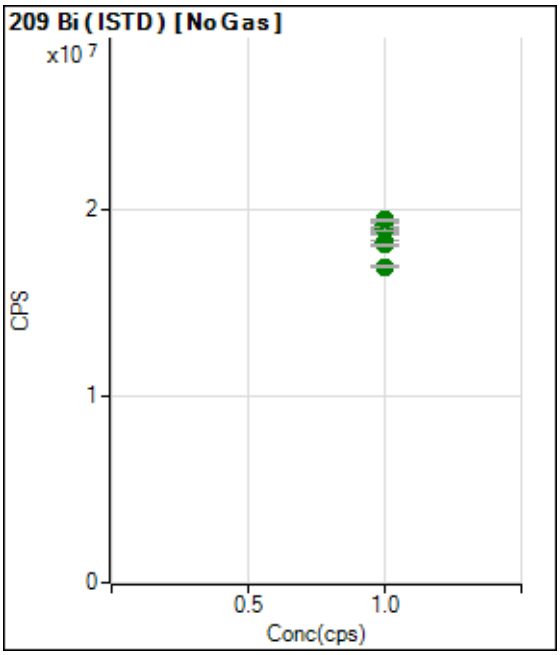


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		31320960.92		A	1.0
2	☐	1.000		30965143.15		A	0.3
3	☐	1.000		32354903.96		A	0.5
4	☐	1.000		31972392.30		A	0.7
5	☐	1.000		33070669.23		A	0.6
6	☐	1.000		32908805.34		A	0.6
7	☐	1.000		34179271.16		A	0.4
8	☐	1.000		32572794.24		A	1.3

Reviewed By:Mohan
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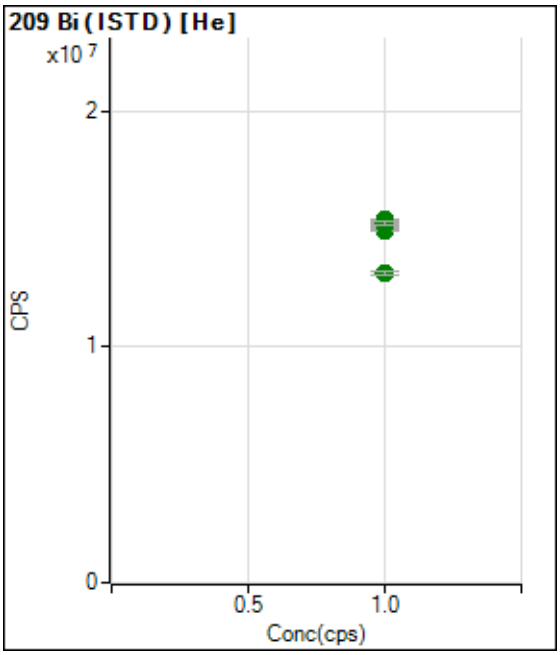


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		21753913.84		A	0.2
2	☐	1.000		21445042.32		A	1.0
3	☐	1.000		22267992.17		A	0.8
4	☐	1.000		22172346.34		A	0.7
5	☐	1.000		22561676.33		A	0.2
6	☐	1.000		22689201.61		A	0.7
7	☐	1.000		23196652.16		A	0.3
8	☐	1.000		21619951.76		A	1.9



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		18251645.14		A	1.4
2	☐	1.000		18136166.26		A	0.5
3	☐	1.000		18913050.41		A	0.7
4	☐	1.000		18870885.27		A	1.8
5	☐	1.000		19195649.44		A	1.5
6	☐	1.000		19028286.39		A	0.8
7	☐	1.000		19493073.88		A	0.6
8	☐	1.000		16956701.55		A	0.6

Reviewed By:Mohan
On:11/21/2024 4:25:15 AM
Inst Id :P7



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		15064668.80		A	0.6
2	☐	1.000		14976391.44		A	0.9
3	☐	1.000		15400380.46		A	0.7
4	☐	1.000		15152148.66		A	0.5
5	☐	1.000		15348593.10		A	0.2
6	☐	1.000		15255029.22		A	0.1
7	☐	1.000		15286184.91		A	0.9
8	☐	1.000		13147307.86		A	1.1

Reviewed By:Mohan
On:11/21/2024 4:25:15 AM
Inst Id :P7
ClientSampleId :TUNE002

US EPA Tune Check Report

Operator Name	Jaswal
Acq/Data Batch	D:\Agilent\ICPMH\1\DATA\P7112024 MS.b
Acq. Date-Time	2024-11-20 08:18:59
Report Comment	---
Instrument Name	G8403A JP14410463

[No Gas]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
9		36123	361228.30			0.594	5.000
24		220392	2203924.49			0.729	5.000
25		25730	257295.33			0.837	5.000
26		29237	292368.26			0.836	5.000
59		247054	2470543.07			0.512	5.000
113		31092	310917.71			0.376	5.000
115		394087	3940866.44			0.913	5.000
206		75138	751384.37			0.591	5.000
207		65935	659346.42			0.506	5.000
208		162514	1625143.94			0.803	5.000
220		0	3.00			33.333	

Mass	RSD% (Flag)
9	
24	
25	
26	
59	
113	
115	
206	
207	
208	
220	

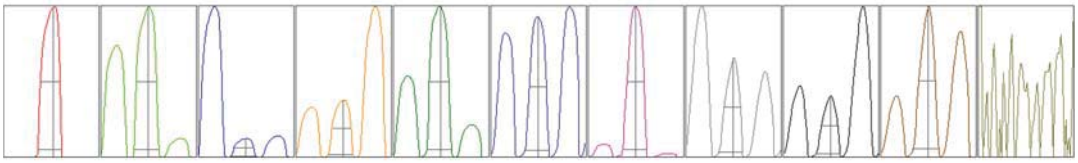
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	36067	35836	36046	36281	36384
24	219529	218072	220783	221523	222055
25	25531	25525	25708	25859	26024
26	28969	29114	29154	29346	29602
59	248223	245424	246260	246994	248371
113	30977	30972	31237	31102	31171
115	388402	396506	392784	397238	395504
206	74723	74617	75352	75637	75363
207	65448	65738	66253	66075	66159
208	161348	161831	162155	162520	164718

US EPA Tune Check Report

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
220	0	0	0	0	0

Integration Time [sec] 0.1

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	62257.14	9.10	8.90 - 9.10	
24	366469.83	24.00	23.90 - 24.10	
25	44443.91	25.00	24.90 - 25.10	
26	50797.44	26.00	25.90 - 26.10	
59	423324.67	59.00	58.90 - 59.10	
113	59792.99	113.00	112.90 - 113.10	
115	753980.58	115.00	114.90 - 115.10	
206	153768.61	206.00	205.90 - 206.10	
207	133317.57	207.00	206.90 - 207.10	
208	324311.75	208.00	207.90 - 208.10	
220			-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.61	0.740	0.900	
24	0.63	0.784	0.900	
25	0.61	0.758	0.900	
26	0.60	0.753	0.900	
59	0.61	0.782	0.900	
113	0.53	0.755	0.900	
115	0.53	0.764	0.900	
206	0.51	0.751	0.900	
207	0.51	0.752	0.900	
208	0.51	0.801	0.900	
220				

Integration Time [sec] 0.1
Acquisition Time [sec] 256.770000000002
Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode --- Nebulizer Gas 0.82 L/min Dilution Gas 0.40 L/min

US EPA Tune Check Report

RF Power	1600 W	Option Gas	---	Auxiliary Gas	0.9
RF Matching	1.80 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	9.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	0.0 V	Omega Lens	7.6 V	Deflect	15.4 V
Extract 2	-135.0 V	Cell Entrance	-30 V	Plate Bias	-35 V
Omega Bias	-65 V	Cell Exit	-50 V		

Cell Parameters

Use Gas	No	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	0.0 mL/min	OctP Bias	-8.0 V		
H2 Flow	---	OctP RF	200 V		

QP Parameters

Mass Gain	136	Axis Gain	0.9973	QP Bias	-3.0 V
Mass Offset	130	Axis Offset	0.17		

Hardware Settings

Torch

Torch H	0.0 mm	Torch V	0.5 mm		

EM

Discriminator	4.6 mV	Analog HV	2221 V	Pulse HV	973 V

[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		79503	795033.93			0.654	
89		119161	1191609.85			1.305	
205		85001	850013.95			1.261	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	79898	79923	78644	79602	79451
89	121180	119811	117059	119420	118335
205	86600	84672	84734	85324	83677

Integration Time [sec] 0.1

Tune Parameters

Plasma Parameters

Plasma Mode	---	Nebulizer Gas	0.82 L/min	Dilution Gas	0.40 L/min
RF Power	1600 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.80 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	9.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	0.0 V	Omega Lens	9.3 V	Deflect	3.8 V

US EPA Tune Check Report

Extract 2	-175.0 V	Cell Entrance	-40 V	Plate Bias	-60
Omega Bias	-80 V	Cell Exit	-60 V		

Cell Parameters

Use Gas	Yes	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	3.9 mL/min	OctP Bias	-18.0 V		
H2 Flow	---	OctP RF	200 V		

QP Parameters

Mass Gain	136	Axis Gain	0.9973	QP Bias	-13.0 V
Mass Offset	130	Axis Offset	0.17		

Hardware Settings

Torch

Torch H	0.0 mm	Torch V	0.5 mm		

EM

Discriminator	4.6 mV	Analog HV	2221 V	Pulse HV	973 V

Reviewed By:Mohan
On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	S00	Instrumnet Name :	P7
Client Sample ID :	S0	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 09:21:55	DataFile Name :	004CALB.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	0.07	0.10	-0.16	0.00	N/A	ppb
Antimony	121-1	0.00	0.00	0.00	0.00	N/A	ppb
Arsenic	75-2	0.01	0.00	-0.01	0.00	N/A	ppb
Barium	135-1	0.00	0.00	0.00	0.00	N/A	ppb
Barium	137-1	0.00	-0.01	0.01	0.00	N/A	ppb
Beryllium	9-1	0.00	0.00	0.00	0.00	N/A	ppb
Bismuth	209-1				100		%
Bismuth	209-2				100		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	0.04	-0.01	-0.03	0.00	N/A	ppb
Cadmium	106-1	-0.38	0.14	0.23	0.00	N/A	ppb
Cadmium	111-1	-0.03	0.01	0.02	0.00	N/A	ppb
Calcium	43-1	1.02	2.86	-3.88	0.00	N/A	ppb
Calcium	44-1	-0.39	1.44	-1.05	0.00	N/A	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.00	0.01	0.00	0.00	N/A	ppb
Cobalt	59-2	0.00	0.00	0.00	0.00	N/A	ppb
Copper	63-2	0.00	0.02	-0.02	0.00	N/A	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				100		%
Holmium	165-2				100		%
Indium	115-1				100		%
Indium	115-2				100		%
Iron	56-2	0.05	-0.08	0.04	0.00	N/A	ppb
Iron	57-2	-0.30	0.51	-0.21	0.00	N/A	ppb
Iron	54-2	-0.01	-0.19	0.21	0.00	N/A	ppb
Krypton	83-1						cps

Reviewed By:Mohan
On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	S00	Instrumnet Name :	P7
Client Sample ID :	S0	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 09:21:55	DataFile Name :	004CALB.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	-0.01	0.00	0.01	0.00	N/A	ppb
Lead	207-1	-0.01	0.00	0.01	0.00	N/A	ppb
Lead	208-1	0.00	0.00	0.00	0.00	N/A	ppb
Lithium	6-1				100		%
Magnesium	24-2	0.03	0.01	-0.04	0.00	N/A	ppb
Manganese	55-2	-0.02	0.00	0.02	0.00	N/A	ppb
Molybdenum	94-1	0.00	-0.01	0.01	0.00	N/A	ppb
Molybdenum	95-1	0.00	0.00	0.00	0.00	N/A	ppb
Molybdenum	96-1	0.00	0.00	0.00	0.00	N/A	ppb
Molybdenum	97-1	0.00	0.00	0.00	0.00	N/A	ppb
Molybdenum	98-1	0.00	0.00	0.00	0.00	N/A	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.01	0.00	-0.01	0.00	N/A	ppb
Phosphorus	31-2	-15.51	-9.41	-17.03	-13.98		ppb
Potassium	39-2	-1.40	0.53	0.86	0.00	N/A	ppb
Rhodium	103-1				100		%
Rhodium	103-2				100		%
Scandium	45-1				100		%
Scandium	45-2				100		%
Selenium	82-1	0.25	0.06	-0.31	0.00	N/A	ppb
Selenium	77-2	0.00	0.00	0.00	0.00	N/A	ppb
Selenium	78-2	0.08	0.13	-0.21	0.00	N/A	ppb
Silicon	28-1	0.41	-0.03	-0.39	0.00	N/A	ppb
Silver	107-1	0.00	0.00	0.00	0.00	N/A	ppb
Silver	109-1	0.00	0.00	0.00	0.00	N/A	ppb
Sodium	23-2	-0.61	0.51	0.11	0.00	N/A	ppb
Strontium	86-1	-0.03	0.11	-0.08	0.00	N/A	ppb
Strontium	88-1	-0.02	-0.01	0.02	0.00	N/A	ppb
Sulfur	34-1	18.29	19.62	-79.95	-14.01		ppb
Terbium	159-1				100		%
Terbium	159-2				100		%
Thallium	203-1	0.00	0.00	0.00	0.00	N/A	ppb
Thallium	205-1	0.00	0.00	0.00	0.00	N/A	ppb
Tin	118-1	-0.01	0.01	0.00	0.00	N/A	ppb
Titanium	47-1	0.01	0.00	0.00	0.00	N/A	ppb

Reviewed By:Mohan
On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	S00	Instrumnet Name :	P7
Client Sample ID :	S0	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 09:21:55	DataFile Name :	004CALB.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	0.00	0.00	0.00	0.00	N/A	ppb
Vanadium	51-2	0.00	0.00	0.00	0.00	N/A	ppb
Yttrium	89-1				100		%
Yttrium	89-2				100		%
Zinc	66-2	-0.06	0.13	-0.07	0.00	N/A	ppb
Zirconium	90-1	0.00	0.00	0.00	0.00	N/A	ppb
Zirconium	91-1	0.00	0.00	0.00	0.00	N/A	ppb

Reviewed By:Mohan
On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	S02	Instrumnet Name :	P7
Client Sample ID :	S02	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 09:28:28	DataFile Name :	006CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	18.47	19.32	19.55	19.11	2.99	ppb
Antimony	121-1	2.07	2.13	2.15	2.11	2.10	ppb
Arsenic	75-2	1.10	1.04	1.21	1.12	7.87	ppb
Barium	135-1	9.92	10.38	10.56	10.29	3.18	ppb
Barium	137-1	10.03	10.57	10.70	10.43	3.41	ppb
Beryllium	9-1	0.92	0.99	1.04	0.98	5.94	ppb
Bismuth	209-1				99		%
Bismuth	209-2				99		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	1.10	1.15	1.20	1.15	4.35	ppb
Cadmium	106-1	1.32	1.13	1.03	1.16	12.87	ppb
Cadmium	111-1	1.11	1.13	1.19	1.14	3.38	ppb
Calcium	43-1	521.78	527.50	543.89	531.06	2.16	ppb
Calcium	44-1	510.73	536.86	534.75	527.45	2.75	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	2.09	2.19	2.11	2.13	2.43	ppb
Cobalt	59-2	1.09	1.14	1.10	1.11	2.36	ppb
Copper	63-2	2.07	2.08	2.07	2.07	0.30	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				99		%
Holmium	165-2				99		%
Indium	115-1				98		%
Indium	115-2				100		%
Iron	56-2	54.75	56.40	55.11	55.42	1.56	ppb
Iron	57-2	55.25	58.63	58.11	57.33	3.17	ppb
Iron	54-2	55.18	57.53	55.65	56.12	2.22	ppb
Krypton	83-1						cps

Reviewed By:Mohan
On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	S02	Instrumnet Name :	P7
Client Sample ID :	S02	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 09:28:28	DataFile Name :	006CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	0.98	0.99	1.01	0.99	1.59	ppb
Lead	207-1	0.98	1.00	1.01	1.00	1.83	ppb
Lead	208-1	0.97	1.00	1.01	0.99	1.83	ppb
Lithium	6-1				100		%
Magnesium	24-2	487.83	498.94	491.62	492.80	1.15	ppb
Manganese	55-2	1.02	1.11	1.00	1.04	5.88	ppb
Molybdenum	94-1	5.75	5.88	5.94	5.85	1.68	ppb
Molybdenum	95-1	4.85	4.97	5.01	4.94	1.75	ppb
Molybdenum	96-1	4.91	5.06	5.09	5.02	1.88	ppb
Molybdenum	97-1	4.90	5.06	4.98	4.98	1.65	ppb
Molybdenum	98-1	4.85	4.96	5.03	4.95	1.81	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	1.05	1.10	1.05	1.07	2.73	ppb
Phosphorus	31-2	9.21	16.97	15.77	13.98	29.86	ppb
Potassium	39-2	515.11	527.49	514.58	519.06	1.41	ppb
Rhodium	103-1				98		%
Rhodium	103-2				100		%
Scandium	45-1				98		%
Scandium	45-2				99		%
Selenium	82-1	4.86	5.28	4.87	5.01	4.73	ppb
Selenium	77-2	5.87	5.34	5.19	5.46	6.52	ppb
Selenium	78-2	4.93	5.40	6.13	5.49	11.08	ppb
Silicon	28-1	1.41	1.88	1.55	1.61	14.98	ppb
Silver	107-1	1.06	1.08	1.12	1.09	2.95	ppb
Silver	109-1	1.05	1.09	1.11	1.09	2.87	ppb
Sodium	23-2	491.14	504.64	497.57	497.78	1.36	ppb
Strontium	86-1	24.36	25.98	25.62	25.32	3.35	ppb
Strontium	88-1	24.98	26.18	25.41	25.52	2.37	ppb
Sulfur	34-1	38.83	29.69	-26.48	14.01	252.34	ppb
Terbium	159-1				99		%
Terbium	159-2				98		%
Thallium	203-1	0.96	0.99	0.99	0.98	1.62	ppb
Thallium	205-1	0.97	1.00	1.02	1.00	2.38	ppb
Tin	118-1	5.11	5.25	5.44	5.26	3.15	ppb
Titanium	47-1	4.88	5.16	5.00	5.02	2.83	ppb

Reviewed By:Mohan
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Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	S02	Instrumnet Name :	P7
Client Sample ID :	S02	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 09:28:28	DataFile Name :	006CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	0.92	0.95	0.96	0.94	2.34	ppb
Vanadium	51-2	5.06	5.27	5.17	5.17	2.03	ppb
Yttrium	89-1				99		%
Yttrium	89-2				99		%
Zinc	66-2	4.75	4.99	4.96	4.90	2.71	ppb
Zirconium	90-1	0.96	1.02	1.00	0.99	3.20	ppb
Zirconium	91-1	0.97	0.99	1.01	0.99	2.39	ppb

Reviewed By:Mohan
On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	S03	Instrumnet Name :	P7
Client Sample ID :	S03	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 09:31:44	DataFile Name :	007CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	986.85	980.72	978.20	981.92	0.45	ppb
Antimony	121-1	51.76	51.03	51.78	51.52	0.83	ppb
Arsenic	75-2	52.16	52.55	52.88	52.53	0.68	ppb
Barium	135-1	255.36	252.83	256.48	254.89	0.73	ppb
Barium	137-1	268.22	264.98	265.70	266.30	0.64	ppb
Beryllium	9-1	49.74	49.35	50.50	49.86	1.17	ppb
Bismuth	209-1				104		%
Bismuth	209-2				102		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	55.07	53.54	55.00	54.54	1.58	ppb
Cadmium	106-1	56.72	53.78	53.91	54.80	3.03	ppb
Cadmium	111-1	54.19	53.34	54.28	53.94	0.96	ppb
Calcium	43-1	5195.15	5227.42	5237.57	5220.05	0.42	ppb
Calcium	44-1	5097.48	5060.91	4998.61	5052.34	0.99	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	51.29	51.34	50.86	51.16	0.52	ppb
Cobalt	59-2	52.43	52.21	52.17	52.27	0.27	ppb
Copper	63-2	552.23	542.18	545.95	546.79	0.93	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				103		%
Holmium	165-2				102		%
Indium	115-1				101		%
Indium	115-2				101		%
Iron	56-2	2690.11	2703.64	2680.62	2691.46	0.43	ppb
Iron	57-2	2727.52	2719.55	2696.26	2714.44	0.60	ppb
Iron	54-2	2733.42	2717.10	2717.53	2722.68	0.34	ppb
Krypton	83-1						cps

Reviewed By:Mohan
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Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	S03	Instrumnet Name :	P7
Client Sample ID :	S03	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 09:31:44	DataFile Name :	007CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	256.39	249.50	255.36	253.75	1.47	ppb
Lead	207-1	253.71	249.95	260.61	254.75	2.12	ppb
Lead	208-1	253.78	250.85	256.68	253.77	1.15	ppb
Lithium	6-1				102		%
Magnesium	24-2	5178.57	5149.04	5173.51	5167.04	0.31	ppb
Manganese	55-2	525.58	523.61	514.81	521.33	1.10	ppb
Molybdenum	94-1	511.92	506.63	507.09	508.55	0.58	ppb
Molybdenum	95-1	517.79	509.86	505.71	511.12	1.20	ppb
Molybdenum	96-1	508.52	512.60	505.49	508.87	0.70	ppb
Molybdenum	97-1	511.65	509.64	505.20	508.83	0.65	ppb
Molybdenum	98-1	506.81	510.34	509.30	508.82	0.36	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	52.69	52.70	52.27	52.55	0.46	ppb
Phosphorus	31-2	1068.48	1042.40	1036.14	1049.01	1.64	ppb
Potassium	39-2	2534.99	2551.16	2551.97	2546.04	0.38	ppb
Rhodium	103-1				101		%
Rhodium	103-2				100		%
Scandium	45-1				100		%
Scandium	45-2				98		%
Selenium	82-1	51.96	52.38	51.98	52.11	0.45	ppb
Selenium	77-2	55.25	53.11	52.49	53.61	2.70	ppb
Selenium	78-2	56.04	53.90	53.33	54.42	2.62	ppb
Silicon	28-1	47.95	49.23	49.65	48.94	1.81	ppb
Silver	107-1	55.64	54.98	54.91	55.17	0.73	ppb
Silver	109-1	55.70	55.07	55.89	55.55	0.76	ppb
Sodium	23-2	5292.88	5354.52	5347.89	5331.76	0.63	ppb
Strontium	86-1	1265.63	1259.68	1248.11	1257.81	0.71	ppb
Strontium	88-1	1289.95	1296.38	1275.06	1287.13	0.85	ppb
Sulfur	34-1	814.48	791.40	775.90	793.93	2.45	ppb
Terbium	159-1				103		%
Terbium	159-2				102		%
Thallium	203-1	49.10	48.86	49.71	49.22	0.89	ppb
Thallium	205-1	49.72	49.86	50.31	49.96	0.62	ppb
Tin	118-1	52.28	51.42	52.34	52.01	0.99	ppb
Titanium	47-1	510.72	520.19	514.22	515.04	0.93	ppb

Reviewed By:Mohan
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Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	S03	Instrumnet Name :	P7
Client Sample ID :	S03	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 09:31:44	DataFile Name :	007CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	48.12	48.59	50.12	48.94	2.14	ppb
Vanadium	51-2	50.56	49.91	50.39	50.29	0.67	ppb
Yttrium	89-1				102		%
Yttrium	89-2				101		%
Zinc	66-2	525.56	525.48	520.06	523.70	0.60	ppb
Zirconium	90-1	51.48	50.88	51.31	51.22	0.60	ppb
Zirconium	91-1	49.98	50.30	49.80	50.03	0.51	ppb

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Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	S04	Instrumnet Name :	P7
Client Sample ID :	S04	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 09:34:40	DataFile Name :	008CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	2491.90	2510.06	2501.45	2501.14	0.36	ppb
Antimony	121-1	129.42	127.88	129.60	128.97	0.73	ppb
Arsenic	75-2	128.35	127.84	127.44	127.88	0.35	ppb
Barium	135-1	653.36	648.36	641.03	647.58	0.96	ppb
Barium	137-1	652.03	641.05	640.62	644.57	1.00	ppb
Beryllium	9-1	120.97	123.21	124.20	122.79	1.34	ppb
Bismuth	209-1				103		%
Bismuth	209-2				101		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	135.62	130.46	133.94	133.34	1.97	ppb
Cadmium	106-1	134.15	134.18	131.73	133.35	1.05	ppb
Cadmium	111-1	131.25	131.21	130.14	130.86	0.48	ppb
Calcium	43-1	12909.48	12965.34	12827.06	12900.63	0.54	ppb
Calcium	44-1	12644.19	12709.98	12525.31	12626.49	0.74	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	126.87	125.05	127.13	126.35	0.90	ppb
Cobalt	59-2	131.41	131.48	131.11	131.33	0.15	ppb
Copper	63-2	1357.57	1317.73	1321.67	1332.32	1.65	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				102		%
Holmium	165-2				102		%
Indium	115-1				99		%
Indium	115-2				99		%
Iron	56-2	6716.26	6546.41	6684.78	6649.15	1.36	ppb
Iron	57-2	6775.86	6657.75	6662.12	6698.58	1.00	ppb
Iron	54-2	6672.69	6476.79	6764.69	6638.06	2.22	ppb
Krypton	83-1						cps

Reviewed By:Mohan
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Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	S04	Instrumnet Name :	P7
Client Sample ID :	S04	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 09:34:40	DataFile Name :	008CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	624.68	612.99	622.38	620.02	1.00	ppb
Lead	207-1	628.47	612.95	626.41	622.61	1.35	ppb
Lead	208-1	629.51	616.98	627.74	624.74	1.09	ppb
Lithium	6-1				100		%
Magnesium	24-2	12664.69	12621.17	12839.99	12708.62	0.91	ppb
Manganese	55-2	1300.71	1270.61	1301.64	1290.98	1.37	ppb
Molybdenum	94-1	1253.39	1274.57	1257.66	1261.88	0.89	ppb
Molybdenum	95-1	1264.60	1278.20	1266.68	1269.82	0.58	ppb
Molybdenum	96-1	1267.91	1266.01	1259.65	1264.52	0.34	ppb
Molybdenum	97-1	1247.61	1257.63	1259.45	1254.89	0.51	ppb
Molybdenum	98-1	1272.24	1264.25	1262.43	1266.31	0.41	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	128.78	128.16	127.96	128.30	0.33	ppb
Phosphorus	31-2	2571.65	2602.71	2570.98	2581.78	0.70	ppb
Potassium	39-2	6350.17	6212.58	6285.91	6282.89	1.10	ppb
Rhodium	103-1				98		%
Rhodium	103-2				99		%
Scandium	45-1				97		%
Scandium	45-2				96		%
Selenium	82-1	126.79	126.96	126.37	126.71	0.24	ppb
Selenium	77-2	120.78	128.08	121.24	123.37	3.31	ppb
Selenium	78-2	126.75	128.21	129.12	128.03	0.93	ppb
Silicon	28-1	135.65	135.36	132.86	134.62	1.14	ppb
Silver	107-1	134.40	135.14	133.46	134.33	0.63	ppb
Silver	109-1	136.48	136.69	132.82	135.33	1.61	ppb
Sodium	23-2	13183.67	12995.02	13153.08	13110.59	0.77	ppb
Strontium	86-1	3074.76	3118.65	3094.43	3095.95	0.71	ppb
Strontium	88-1	3147.61	3193.00	3189.98	3176.86	0.80	ppb
Sulfur	34-1	2244.47	2263.27	2147.00	2218.25	2.81	ppb
Terbium	159-1				102		%
Terbium	159-2				100		%
Thallium	203-1	122.86	122.10	123.74	122.90	0.67	ppb
Thallium	205-1	124.28	123.28	122.99	123.52	0.55	ppb
Tin	118-1	131.42	130.85	127.01	129.76	1.85	ppb
Titanium	47-1	1259.99	1270.41	1251.32	1260.57	0.76	ppb

Reviewed By:Mohan
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Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	S04	Instrumnet Name :	P7
Client Sample ID :	S04	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 09:34:40	DataFile Name :	008CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	122.31	119.77	121.27	121.12	1.05	ppb
Vanadium	51-2	124.44	123.41	124.78	124.21	0.57	ppb
Yttrium	89-1				99		%
Yttrium	89-2				100		%
Zinc	66-2	1320.32	1306.59	1305.88	1310.93	0.62	ppb
Zirconium	90-1	125.15	125.59	127.03	125.92	0.78	ppb
Zirconium	91-1	123.03	124.31	123.96	123.77	0.53	ppb

Reviewed By:Mohan
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Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	S05	Instrumnet Name :	P7
Client Sample ID :	S05	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 09:37:26	DataFile Name :	009CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	5015.11	4983.24	4844.36	4947.57	1.84	ppb
Antimony	121-1	250.32	254.49	254.85	253.22	0.99	ppb
Arsenic	75-2	254.27	252.28	250.37	252.30	0.77	ppb
Barium	135-1	1260.34	1275.01	1264.82	1266.72	0.59	ppb
Barium	137-1	1247.47	1294.03	1274.22	1271.91	1.84	ppb
Beryllium	9-1	238.51	239.86	239.75	239.37	0.31	ppb
Bismuth	209-1				105		%
Bismuth	209-2				102		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	258.91	262.80	262.93	261.55	0.87	ppb
Cadmium	106-1	256.07	261.97	261.48	259.84	1.26	ppb
Cadmium	111-1	258.70	258.03	257.80	258.17	0.18	ppb
Calcium	43-1	24882.84	25167.12	25885.10	25311.69	2.04	ppb
Calcium	44-1	25062.27	25079.01	25258.28	25133.19	0.43	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	261.05	264.33	254.37	259.92	1.95	ppb
Cobalt	59-2	266.73	263.78	257.33	262.61	1.83	ppb
Copper	63-2	2692.71	2654.24	2645.64	2664.20	0.94	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				106		%
Holmium	165-2				104		%
Indium	115-1				100		%
Indium	115-2				100		%
Iron	56-2	13584.33	13419.32	13220.68	13408.11	1.36	ppb
Iron	57-2	13575.01	13476.62	13012.39	13354.67	2.25	ppb
Iron	54-2	13617.71	13464.68	13058.16	13380.18	2.16	ppb
Krypton	83-1						cps

Reviewed By:Mohan
On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	S05	Instrumnet Name :	P7
Client Sample ID :	S05	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 09:37:26	DataFile Name :	009CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	1232.07	1250.59	1263.87	1248.84	1.28	ppb
Lead	207-1	1229.98	1251.03	1270.33	1250.44	1.61	ppb
Lead	208-1	1235.13	1253.31	1274.90	1254.45	1.59	ppb
Lithium	6-1				103		%
Magnesium	24-2	25498.41	25394.32	25083.22	25325.32	0.85	ppb
Manganese	55-2	2638.58	2624.29	2551.92	2604.93	1.78	ppb
Molybdenum	94-1	2511.56	2516.52	2542.59	2523.56	0.66	ppb
Molybdenum	95-1	2515.61	2532.42	2554.46	2534.16	0.77	ppb
Molybdenum	96-1	2497.18	2535.99	2540.78	2524.65	0.95	ppb
Molybdenum	97-1	2474.39	2548.45	2526.70	2516.51	1.51	ppb
Molybdenum	98-1	2500.63	2534.52	2536.19	2523.78	0.80	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	258.11	256.78	253.34	256.08	0.96	ppb
Phosphorus	31-2	5201.96	5204.58	5076.70	5161.08	1.42	ppb
Potassium	39-2	12580.52	12653.49	12453.64	12562.55	0.81	ppb
Rhodium	103-1				99		%
Rhodium	103-2				99		%
Scandium	45-1				98		%
Scandium	45-2				95		%
Selenium	82-1	252.23	256.17	256.46	254.95	0.93	ppb
Selenium	77-2	248.51	249.79	258.47	252.26	2.15	ppb
Selenium	78-2	254.57	253.00	257.55	255.04	0.91	ppb
Silicon	28-1	228.75	232.52	237.97	233.08	1.99	ppb
Silver	107-1	258.54	260.98	262.37	260.63	0.74	ppb
Silver	109-1	260.86	264.64	263.95	263.15	0.76	ppb
Sodium	23-2	26639.90	26409.25	25957.03	26335.40	1.32	ppb
Strontium	86-1	6294.69	6337.59	6251.69	6294.66	0.68	ppb
Strontium	88-1	6291.69	6301.65	6339.99	6311.11	0.40	ppb
Sulfur	34-1	4367.11	4321.11	4403.20	4363.80	0.94	ppb
Terbium	159-1				104		%
Terbium	159-2				102		%
Thallium	203-1	247.67	246.20	250.70	248.19	0.92	ppb
Thallium	205-1	245.34	249.60	253.23	249.39	1.58	ppb
Tin	118-1	249.47	255.05	253.62	252.71	1.15	ppb
Titanium	47-1	2506.21	2529.04	2535.02	2523.42	0.60	ppb

Reviewed By:Mohan
On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	S05	Instrumnet Name :	P7
Client Sample ID :	S05	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 09:37:26	DataFile Name :	009CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	242.10	244.76	257.70	248.19	3.36	ppb
Vanadium	51-2	261.68	260.05	252.77	258.17	1.84	ppb
Yttrium	89-1				101		%
Yttrium	89-2				101		%
Zinc	66-2	2673.71	2630.18	2621.24	2641.71	1.06	ppb
Zirconium	90-1	248.98	249.79	255.67	251.48	1.45	ppb
Zirconium	91-1	253.24	253.56	256.29	254.36	0.66	ppb

Reviewed By:Mohan
On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	S06	Instrumnet Name :	P7
Client Sample ID :	S06	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 09:40:14	DataFile Name :	010CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	9942.10	9694.66	9678.56	9771.78	1.51	ppb
Antimony	121-1	502.27	497.39	502.60	500.75	0.58	ppb
Arsenic	75-2	501.19	508.07	508.10	505.79	0.79	ppb
Barium	135-1	2501.66	2516.53	2494.04	2504.08	0.46	ppb
Barium	137-1	2524.09	2515.35	2518.09	2519.18	0.18	ppb
Beryllium	9-1	502.27	515.80	515.07	511.05	1.49	ppb
Bismuth	209-1				104		%
Bismuth	209-2				101		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	512.59	505.66	505.57	507.94	0.79	ppb
Cadmium	106-1	509.47	501.98	504.38	505.27	0.76	ppb
Cadmium	111-1	517.79	504.02	507.99	509.93	1.39	ppb
Calcium	43-1	49770.12	50646.96	50233.60	50216.90	0.87	ppb
Calcium	44-1	49556.54	50133.32	49721.25	49803.70	0.60	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	518.28	501.42	514.45	511.38	1.73	ppb
Cobalt	59-2	525.20	509.71	509.09	514.67	1.77	ppb
Copper	63-2	5224.69	5139.44	5153.40	5172.51	0.88	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				105		%
Holmium	165-2				104		%
Indium	115-1				98		%
Indium	115-2				98		%
Iron	56-2	27128.62	26227.22	26037.22	26464.35	2.20	ppb
Iron	57-2	26714.19	25790.29	25912.29	26138.92	1.92	ppb
Iron	54-2	26838.13	25986.93	26194.50	26339.85	1.69	ppb
Krypton	83-1						cps

Reviewed By:Mohan
On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	S06	Instrumnet Name :	P7
Client Sample ID :	S06	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 09:40:14	DataFile Name :	010CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	2467.82	2522.47	2551.94	2514.08	1.70	ppb
Lead	207-1	2491.13	2506.54	2523.63	2507.10	0.65	ppb
Lead	208-1	2492.21	2509.32	2532.86	2511.46	0.81	ppb
Lithium	6-1				100		%
Magnesium	24-2	50098.72	49451.45	49253.18	49601.12	0.89	ppb
Manganese	55-2	5267.25	5132.11	5089.48	5162.95	1.80	ppb
Molybdenum	94-1	4969.63	5023.45	5029.73	5007.61	0.66	ppb
Molybdenum	95-1	4961.17	5007.09	5026.51	4998.26	0.67	ppb
Molybdenum	96-1	4913.36	5035.11	4978.16	4975.54	1.22	ppb
Molybdenum	97-1	4920.62	5021.58	5029.84	4990.68	1.22	ppb
Molybdenum	98-1	4946.77	5059.50	5049.51	5018.59	1.24	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	524.43	510.83	522.44	519.23	1.41	ppb
Phosphorus	31-2	10396.16	10127.39	10164.24	10229.26	1.42	ppb
Potassium	39-2	24640.88	24612.98	24507.72	24587.19	0.29	ppb
Rhodium	103-1				96		%
Rhodium	103-2				97		%
Scandium	45-1				96		%
Scandium	45-2				95		%
Selenium	82-1	493.04	502.99	503.24	499.76	1.16	ppb
Selenium	77-2	505.78	494.09	490.52	496.80	1.61	ppb
Selenium	78-2	501.01	503.11	505.90	503.34	0.49	ppb
Silicon	28-1	569.32	572.47	564.14	568.64	0.74	ppb
Silver	107-1	515.50	507.41	509.33	510.75	0.83	ppb
Silver	109-1	514.28	504.57	508.17	509.00	0.96	ppb
Sodium	23-2	52120.75	51156.35	51459.22	51578.77	0.96	ppb
Strontium	86-1	12495.16	12658.21	12530.60	12561.32	0.68	ppb
Strontium	88-1	12425.00	12541.26	12544.73	12503.66	0.55	ppb
Sulfur	34-1	10519.86	10691.04	10162.67	10457.85	2.58	ppb
Terbium	159-1				104		%
Terbium	159-2				103		%
Thallium	203-1	491.96	494.78	506.18	497.64	1.51	ppb
Thallium	205-1	489.72	501.84	506.38	499.31	1.73	ppb
Tin	118-1	508.04	500.58	502.52	503.71	0.77	ppb
Titanium	47-1	4988.53	5078.21	5038.94	5035.22	0.89	ppb

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LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	S06	Instrumnet Name :	P7
Client Sample ID :	S06	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 09:40:14	DataFile Name :	010CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	487.30	494.74	510.64	497.56	2.40	ppb
Vanadium	51-2	513.77	501.42	503.81	506.33	1.29	ppb
Yttrium	89-1				100		%
Yttrium	89-2				99		%
Zinc	66-2	5267.85	5172.13	5158.36	5199.44	1.15	ppb
Zirconium	90-1	500.33	505.51	505.60	503.82	0.60	ppb
Zirconium	91-1	497.27	505.30	506.50	503.02	1.00	ppb

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Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	S07	Instrumnet Name :	P7
Client Sample ID :	S07	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 09:42:59	DataFile Name :	011CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	18865.98	18789.83	19011.79	18889.20	0.60	ppb
Antimony	121-1	982.87	1002.55	1009.32	998.24	1.38	ppb
Arsenic	75-2	1006.96	991.21	989.96	996.04	0.95	ppb
Barium	135-1	4925.83	5012.39	5033.93	4990.71	1.15	ppb
Barium	137-1	4912.94	4989.32	5042.76	4981.67	1.31	ppb
Beryllium	9-1	990.71	993.06	1008.47	997.41	0.97	ppb
Bismuth	209-1				107		%
Bismuth	209-2				101		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	977.40	988.05	1010.17	991.87	1.69	ppb
Cadmium	106-1	977.34	994.24	1009.27	993.62	1.61	ppb
Cadmium	111-1	987.89	988.77	999.52	992.06	0.65	ppb
Calcium	43-1	100053.77	100431.86	100820.21	100435.28	0.38	ppb
Calcium	44-1	98460.81	100061.23	100702.02	99741.36	1.16	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	983.35	986.01	1005.45	991.60	1.22	ppb
Cobalt	59-2	977.08	1004.47	984.27	988.61	1.44	ppb
Copper	63-2	9820.91	9843.85	9915.44	9860.06	0.50	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				109		%
Holmium	165-2				107		%
Indium	115-1				100		%
Indium	115-2				99		%
Iron	56-2	50044.47	50573.36	50773.09	50463.64	0.75	ppb
Iron	57-2	50239.01	50654.13	50335.91	50409.69	0.43	ppb
Iron	54-2	50310.70	50322.19	50829.24	50487.38	0.59	ppb
Krypton	83-1						cps

Reviewed By:Mohan
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Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	S07	Instrumnet Name :	P7
Client Sample ID :	S07	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 09:42:59	DataFile Name :	011CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	4990.79	5046.17	4944.10	4993.69	1.02	ppb
Lead	207-1	5014.10	5039.00	4936.10	4996.40	1.07	ppb
Lead	208-1	5007.61	5010.21	4961.18	4993.00	0.55	ppb
Lithium	6-1				101		%
Magnesium	24-2	97634.65	97191.27	97059.67	97295.20	0.31	ppb
Manganese	55-2	9811.48	9891.81	9955.02	9886.10	0.73	ppb
Molybdenum	94-1	9860.74	10000.56	10103.88	9988.39	1.22	ppb
Molybdenum	95-1	9872.14	9987.33	10108.42	9989.30	1.18	ppb
Molybdenum	96-1	9890.88	10018.70	10101.85	10003.81	1.06	ppb
Molybdenum	97-1	9860.71	10011.32	10126.41	9999.48	1.33	ppb
Molybdenum	98-1	9891.63	10006.65	10048.55	9982.28	0.81	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	980.51	997.34	987.13	988.32	0.86	ppb
Phosphorus	31-2	19642.61	19770.14	20084.53	19832.42	1.15	ppb
Potassium	39-2	47256.31	47583.16	48271.89	47703.79	1.09	ppb
Rhodium	103-1				98		%
Rhodium	103-2				98		%
Scandium	45-1				98		%
Scandium	45-2				100		%
Selenium	82-1	986.62	1002.95	1006.11	998.56	1.05	ppb
Selenium	77-2	1018.15	1002.36	982.66	1001.06	1.78	ppb
Selenium	78-2	998.35	982.68	1008.38	996.47	1.30	ppb
Silicon	28-1	966.32	969.53	970.67	968.84	0.23	ppb
Silver	107-1	984.52	995.06	992.06	990.54	0.55	ppb
Silver	109-1	976.92	991.43	1003.58	990.64	1.35	ppb
Sodium	23-2	99273.45	98589.56	100338.23	99400.41	0.89	ppb
Strontium	86-1	24785.60	25094.48	25004.16	24961.41	0.64	ppb
Strontium	88-1	24911.45	24855.74	25156.46	24974.55	0.64	ppb
Sulfur	34-1	19906.69	19872.19	20148.06	19975.64	0.75	ppb
Terbium	159-1				108		%
Terbium	159-2				105		%
Thallium	203-1	1006.34	996.98	1002.48	1001.93	0.47	ppb
Thallium	205-1	998.72	1007.91	995.42	1000.68	0.65	ppb
Tin	118-1	988.69	1000.54	1001.07	996.77	0.70	ppb
Titanium	47-1	9844.97	9963.25	10115.15	9974.46	1.36	ppb

Reviewed By:Mohan
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Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	S07	Instrumnet Name :	P7
Client Sample ID :	S07	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 09:42:59	DataFile Name :	011CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	1001.73	1007.86	997.05	1002.21	0.54	ppb
Vanadium	51-2	981.13	998.24	1005.25	994.88	1.25	ppb
Yttrium	89-1				103		%
Yttrium	89-2				102		%
Zinc	66-2	9734.16	9852.92	9981.07	9856.05	1.25	ppb
Zirconium	90-1	988.58	997.70	1006.36	997.55	0.89	ppb
Zirconium	91-1	981.87	999.18	1011.60	997.55	1.50	ppb

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Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	S08	Instrumnet Name :	P7
Client Sample ID :	S08	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 09:45:46	DataFile Name :	012CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	102551.09	99749.79	98442.39	100247.76	2.09	ppb
Antimony	121-1	0.46	0.49	0.57	0.50	10.85	ppb
Arsenic	75-2	0.53	0.59	0.58	0.57	6.10	ppb
Barium	135-1	2.06	1.99	1.93	1.99	3.20	ppb
Barium	137-1	2.15	2.06	2.02	2.07	3.29	ppb
Beryllium	9-1	0.18	0.12	0.09	0.13	33.59	ppb
Bismuth	209-1				93		%
Bismuth	209-2				87		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	0.55	0.40	0.61	0.52	21.34	ppb
Cadmium	106-1	-0.12	-0.17	-0.32	-0.20		ppb
Cadmium	111-1	0.19	0.17	0.15	0.17	10.34	ppb
Calcium	43-1	503310.64	492251.80	504027.83	499863.42	1.32	ppb
Calcium	44-1	503307.41	495021.33	501854.21	500060.99	0.88	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	1.20	1.19	1.12	1.17	3.93	ppb
Cobalt	59-2	2.54	2.52	2.54	2.53	0.48	ppb
Copper	63-2	1.74	1.69	1.58	1.67	5.10	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				104		%
Holmium	165-2				99		%
Indium	115-1				94		%
Indium	115-2				94		%
Iron	56-2	254865.58	245048.05	249196.98	249703.54	1.97	ppb
Iron	57-2	254976.06	251323.27	242944.90	249748.08	2.47	ppb
Iron	54-2	252648.13	246620.23	249869.45	249712.60	1.21	ppb
Krypton	83-1						cps

Reviewed By:Mohan
On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	S08	Instrumnet Name :	P7
Client Sample ID :	S08	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 09:45:46	DataFile Name :	012CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	0.74	0.66	0.59	0.66	11.45	ppb
Lead	207-1	0.74	0.66	0.60	0.67	10.65	ppb
Lead	208-1	0.74	0.65	0.60	0.66	11.02	ppb
Lithium	6-1				92		%
Magnesium	24-2	505854.71	500313.64	495504.76	500557.70	1.03	ppb
Manganese	55-2	3.55	3.43	3.42	3.47	2.19	ppb
Molybdenum	94-1	2.53	2.38	2.31	2.41	4.75	ppb
Molybdenum	95-1	1.79	1.60	1.54	1.64	8.04	ppb
Molybdenum	96-1	3.07	2.83	2.79	2.90	5.20	ppb
Molybdenum	97-1	1.72	1.55	1.46	1.58	8.37	ppb
Molybdenum	98-1	1.71	1.52	1.45	1.56	8.56	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	2.68	2.50	2.56	2.58	3.47	ppb
Phosphorus	31-2	-14.41	-12.80	-15.81	-14.34		ppb
Potassium	39-2	253817.83	251130.67	246539.73	250496.08	1.47	ppb
Rhodium	103-1				88		%
Rhodium	103-2				88		%
Scandium	45-1				96		%
Scandium	45-2				97		%
Selenium	82-1	0.97	0.54	0.67	0.72	30.73	ppb
Selenium	77-2	0.19	0.29	0.28	0.25	21.86	ppb
Selenium	78-2	0.29	0.64	0.67	0.54	39.36	ppb
Silicon	28-1	0.17	-0.99	-0.95	-0.59		ppb
Silver	107-1	0.15	0.13	0.12	0.13	10.58	ppb
Silver	109-1	0.16	0.13	0.11	0.13	16.86	ppb
Sodium	23-2	512572.33	491754.54	495303.20	499876.69	2.23	ppb
Strontium	86-1	81.14	80.87	81.18	81.06	0.21	ppb
Strontium	88-1	81.94	82.13	81.69	81.92	0.27	ppb
Sulfur	34-1	-653.54	-644.12	-581.60	-626.42		ppb
Terbium	159-1				102		%
Terbium	159-2				98		%
Thallium	203-1	0.11	0.07	0.06	0.08	32.65	ppb
Thallium	205-1	0.10	0.08	0.06	0.08	25.65	ppb
Tin	118-1	0.11	0.09	0.09	0.10	13.21	ppb
Titanium	47-1	1.48	1.34	1.32	1.38	6.48	ppb

Reviewed By:Mohan
On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	S08	Instrumnet Name :	P7
Client Sample ID :	S08	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 09:45:46	DataFile Name :	012CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	0.10	0.08	0.06	0.08	23.53	ppb
Vanadium	51-2	0.28	0.25	0.24	0.26	8.47	ppb
Yttrium	89-1				99		%
Yttrium	89-2				100		%
Zinc	66-2	-1.69	-1.87	-1.76	-1.77		ppb
Zirconium	90-1	0.57	0.55	0.54	0.55	3.07	ppb
Zirconium	91-1	0.60	0.55	0.50	0.55	8.98	ppb

Reviewed By:Mohan
On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	ICV002	Instrumnet Name :	P7
Client Sample ID :	ICV002	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 10:03:13	DataFile Name :	013ICV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	536.27	542.85	545.84	541.65	0.90	ppb
Antimony	121-1	206.47	204.06	208.14	206.22	1.00	ppb
Arsenic	75-2	204.99	207.73	205.48	206.07	0.71	ppb
Barium	135-1	100.02	99.89	100.32	100.08	0.22	ppb
Barium	137-1	100.12	100.55	101.44	100.70	0.66	ppb
Beryllium	9-1	98.03	102.43	98.68	99.71	2.38	ppb
Bismuth	209-1				108		%
Bismuth	209-2				106		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	95.71	95.95	93.96	95.21	1.14	ppb
Cadmium	106-1	93.41	92.83	92.67	92.97	0.42	ppb
Cadmium	111-1	106.79	106.81	105.90	106.50	0.49	ppb
Calcium	43-1	1907.25	1926.36	1917.32	1916.98	0.50	ppb
Calcium	44-1	1922.42	1905.02	1893.73	1907.06	0.76	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	100.86	101.24	100.56	100.89	0.33	ppb
Cobalt	59-2	103.75	104.67	106.99	105.13	1.59	ppb
Copper	63-2	97.93	98.13	98.03	98.03	0.10	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				106		%
Holmium	165-2				106		%
Indium	115-1				106		%
Indium	115-2				107		%
Iron	56-2	2030.71	2063.88	2046.55	2047.05	0.81	ppb
Iron	57-2	2054.45	2052.73	2050.28	2052.49	0.10	ppb
Iron	54-2	2090.58	2099.63	2114.84	2101.68	0.58	ppb
Krypton	83-1						cps

Reviewed By:Mohan
On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	ICV002	Instrumnet Name :	P7
Client Sample ID :	ICV002	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 10:03:13	DataFile Name :	013ICV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	208.38	207.51	216.86	210.92	2.45	ppb
Lead	207-1	200.20	201.55	207.83	203.19	2.00	ppb
Lead	208-1	205.94	204.94	210.48	207.12	1.43	ppb
Lithium	6-1				101		%
Magnesium	24-2	1178.28	1098.91	1106.32	1127.83	3.89	ppb
Manganese	55-2	97.41	98.24	98.16	97.94	0.47	ppb
Molybdenum	94-1	0.03	0.05	0.06	0.05	39.26	ppb
Molybdenum	95-1	0.03	0.02	0.03	0.03	14.77	ppb
Molybdenum	96-1	0.04	0.05	0.05	0.05	17.81	ppb
Molybdenum	97-1	0.03	0.03	0.03	0.03	8.05	ppb
Molybdenum	98-1	0.03	0.03	0.04	0.03	13.50	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	103.38	104.02	104.08	103.83	0.37	ppb
Phosphorus	31-2	-19.05	-16.93	-19.48	-18.49		ppb
Potassium	39-2	1917.74	1925.46	1912.17	1918.46	0.35	ppb
Rhodium	103-1				105		%
Rhodium	103-2				106		%
Scandium	45-1				106		%
Scandium	45-2				105		%
Selenium	82-1	210.39	209.61	212.98	211.00	0.84	ppb
Selenium	77-2	215.53	210.04	209.57	211.71	1.57	ppb
Selenium	78-2	212.82	211.98	208.22	211.00	1.16	ppb
Silicon	28-1	-3.07	-2.78	-3.63	-3.16		ppb
Silver	107-1	53.60	51.58	52.96	52.71	1.96	ppb
Silver	109-1	52.62	53.90	52.47	53.00	1.48	ppb
Sodium	23-2	1957.76	1957.28	1986.42	1967.15	0.85	ppb
Strontium	86-1	6.10	4.91	5.46	5.49	10.85	ppb
Strontium	88-1	5.71	5.67	5.68	5.69	0.41	ppb
Sulfur	34-1	-346.41	-359.10	-394.39	-366.63		ppb
Terbium	159-1				105		%
Terbium	159-2				105		%
Thallium	203-1	207.66	205.29	209.32	207.42	0.98	ppb
Thallium	205-1	205.78	203.08	211.38	206.75	2.05	ppb
Tin	118-1	-0.06	-0.05	-0.06	-0.06		ppb
Titanium	47-1	0.04	0.04	0.04	0.04	5.69	ppb

Reviewed By:Mohan
On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	ICV002	Instrumnet Name :	P7
Client Sample ID :	ICV002	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 10:03:13	DataFile Name :	013ICV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	0.00	0.00	0.00	0.00	30.90	ppb
Vanadium	51-2	95.98	96.59	97.38	96.65	0.73	ppb
Yttrium	89-1				106		%
Yttrium	89-2				107		%
Zinc	66-2	199.02	198.64	199.73	199.13	0.28	ppb
Zirconium	90-1	0.01	0.01	0.02	0.01	63.08	ppb
Zirconium	91-1	0.06	0.06	0.06	0.06	6.84	ppb

Reviewed By:Mohan
On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	ICB002	Instrumnet Name :	P7
Client Sample ID :	ICB002	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 10:07:56	DataFile Name :	014CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	-0.29	-0.30	-0.29	-0.29		ppb
Antimony	121-1	0.03	0.03	0.05	0.04	23.26	ppb
Arsenic	75-2	0.01	0.02	0.01	0.01	48.51	ppb
Barium	135-1	0.02	0.03	0.01	0.02	29.99	ppb
Barium	137-1	0.01	0.01	0.02	0.01	32.93	ppb
Beryllium	9-1	0.05	0.02	0.01	0.03	69.67	ppb
Bismuth	209-1				101		%
Bismuth	209-2				103		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	0.03	0.07	0.01	0.04	77.73	ppb
Cadmium	106-1	-1.69	-1.52	-1.98	-1.73		ppb
Cadmium	111-1	-0.11	-0.10	-0.13	-0.12		ppb
Calcium	43-1	-0.39	-0.72	-5.06	-2.06		ppb
Calcium	44-1	-4.99	-2.86	-2.51	-3.45		ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.00	-0.01	0.00	0.00		ppb
Cobalt	59-2	0.00	0.00	-0.01	0.00		ppb
Copper	63-2	0.03	0.02	0.01	0.02	46.93	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				101		%
Holmium	165-2				104		%
Indium	115-1				100		%
Indium	115-2				104		%
Iron	56-2	0.06	-0.04	-0.03	0.00		ppb
Iron	57-2	-0.11	0.04	-0.62	-0.23		ppb
Iron	54-2	-0.47	-0.22	-0.58	-0.42		ppb
Krypton	83-1						cps

Reviewed By:Mohan
On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	ICB002	Instrumnet Name :	P7
Client Sample ID :	ICB002	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 10:07:56	DataFile Name :	014CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	0.04	0.02	0.02	0.03	37.74	ppb
Lead	207-1	0.03	0.03	0.03	0.03	2.27	ppb
Lead	208-1	0.03	0.02	0.02	0.03	26.18	ppb
Lithium	6-1				98		%
Magnesium	24-2	0.16	0.07	0.02	0.08	85.26	ppb
Manganese	55-2	-0.07	-0.03	-0.04	-0.05		ppb
Molybdenum	94-1	0.04	0.06	0.07	0.06	28.48	ppb
Molybdenum	95-1	0.01	0.01	0.01	0.01	6.05	ppb
Molybdenum	96-1	0.01	0.01	0.02	0.01	36.80	ppb
Molybdenum	97-1	0.00	0.01	0.01	0.01	48.22	ppb
Molybdenum	98-1	0.00	0.01	0.01	0.01	23.36	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	-0.04	-0.04	-0.02	-0.03		ppb
Phosphorus	31-2	-13.59	-16.81	-16.82	-15.74		ppb
Potassium	39-2	1.66	1.75	2.19	1.86	15.27	ppb
Rhodium	103-1				100		%
Rhodium	103-2				103		%
Scandium	45-1				100		%
Scandium	45-2				101		%
Selenium	82-1	0.56	0.07	-0.01	0.21	149.54	ppb
Selenium	77-2	0.00	0.09	0.00	0.03	173.21	ppb
Selenium	78-2	0.47	0.81	0.33	0.54	46.36	ppb
Silicon	28-1	-1.33	-1.08	-1.30	-1.24		ppb
Silver	107-1	0.01	0.01	0.01	0.01	25.63	ppb
Silver	109-1	0.01	0.01	0.01	0.01	20.93	ppb
Sodium	23-2	-3.94	-3.94	-4.47	-4.11		ppb
Strontium	86-1	0.03	-0.07	0.16	0.04	289.78	ppb
Strontium	88-1	0.05	0.06	-0.01	0.03	124.24	ppb
Sulfur	34-1	-178.39	-175.23	-178.85	-177.49		ppb
Terbium	159-1				100		%
Terbium	159-2				102		%
Thallium	203-1	0.02	0.02	0.01	0.02	21.35	ppb
Thallium	205-1	0.02	0.02	0.02	0.02	16.74	ppb
Tin	118-1	-0.02	-0.01	0.00	-0.01		ppb
Titanium	47-1	0.02	0.01	0.00	0.01	63.20	ppb

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Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	ICB002	Instrumnet Name :	P7
Client Sample ID :	ICB002	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 10:07:56	DataFile Name :	014CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	0.00	0.00	0.00	0.00	75.18	ppb
Vanadium	51-2	0.00	0.00	0.00	0.00		ppb
Yttrium	89-1				101		%
Yttrium	89-2				103		%
Zinc	66-2	-0.24	-0.09	-0.27	-0.20		ppb
Zirconium	90-1	0.03	0.03	0.04	0.03	23.37	ppb
Zirconium	91-1	0.03	0.03	0.03	0.03	9.80	ppb

Reviewed By:Mohan
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Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	ICSA002	Instrumnet Name :	P7
Client Sample ID :	ICSA002	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 10:11:14	DataFile Name :	015ICSA.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	90269.97	89899.98	89378.78	89849.58	0.50	ppb
Antimony	121-1	1.04	1.07	1.11	1.08	3.27	ppb
Arsenic	75-2	0.31	0.33	0.37	0.34	8.17	ppb
Barium	135-1	1.34	1.34	1.42	1.37	3.60	ppb
Barium	137-1	1.33	1.36	1.39	1.36	2.41	ppb
Beryllium	9-1	0.26	0.28	0.28	0.27	3.59	ppb
Bismuth	209-1				101		%
Bismuth	209-2				97		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	9.08	8.83	8.80	8.90	1.75	ppb
Cadmium	106-1	-1.23	-2.06	-2.14	-1.81		ppb
Cadmium	111-1	0.28	0.21	0.21	0.24	16.27	ppb
Calcium	43-1	94707.93	96656.57	96574.72	95979.74	1.15	ppb
Calcium	44-1	93748.53	96815.86	97326.52	95963.64	2.02	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	19.81	19.54	19.57	19.64	0.76	ppb
Cobalt	59-2	1.23	1.20	1.20	1.21	1.57	ppb
Copper	63-2	7.31	7.21	7.13	7.22	1.19	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				105		%
Holmium	165-2				104		%
Indium	115-1				98		%
Indium	115-2				99		%
Iron	56-2	102522.77	102740.95	101707.10	102323.61	0.53	ppb
Iron	57-2	103533.07	103398.31	100232.22	102387.87	1.82	ppb
Iron	54-2	101434.53	101106.06	99829.61	100790.06	0.84	ppb
Krypton	83-1						cps

Reviewed By:Mohan
On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	ICSA002	Instrumnet Name :	P7
Client Sample ID :	ICSA002	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 10:11:14	DataFile Name :	015ICSA.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	4.57	4.70	4.69	4.65	1.50	ppb
Lead	207-1	4.10	4.23	4.24	4.19	1.82	ppb
Lead	208-1	4.26	4.39	4.38	4.34	1.61	ppb
Lithium	6-1				93		%
Magnesium	24-2	92293.83	92792.81	91025.48	92037.37	0.99	ppb
Manganese	55-2	7.56	7.51	7.43	7.50	0.82	ppb
Molybdenum	94-1	1501.46	1562.67	1562.56	1542.23	2.29	ppb
Molybdenum	95-1	1822.95	1895.10	1906.11	1874.72	2.41	ppb
Molybdenum	96-1	1771.44	1860.35	1844.41	1825.40	2.60	ppb
Molybdenum	97-1	1810.65	1892.83	1894.48	1865.99	2.57	ppb
Molybdenum	98-1	1817.17	1920.70	1916.08	1884.65	3.10	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	5.45	5.24	5.32	5.34	2.07	ppb
Phosphorus	31-2	102778.67	100906.72	100943.05	101542.81	1.05	ppb
Potassium	39-2	95274.53	94079.08	96127.14	95160.25	1.08	ppb
Rhodium	103-1				95		%
Rhodium	103-2				96		%
Scandium	45-1				98		%
Scandium	45-2				97		%
Selenium	82-1	0.24	0.06	-0.02	0.09	146.94	ppb
Selenium	77-2	0.28	0.10	0.09	0.16	69.36	ppb
Selenium	78-2	0.78	1.00	0.63	0.80	23.16	ppb
Silicon	28-1	0.31	-0.21	-0.10	0.00	99782.68	ppb
Silver	107-1	0.03	0.03	0.03	0.03	12.96	ppb
Silver	109-1	0.03	0.03	0.03	0.03	11.69	ppb
Sodium	23-2	100803.42	98947.56	98890.39	99547.12	1.09	ppb
Strontium	86-1	782.08	821.55	823.70	809.11	2.90	ppb
Strontium	88-1	807.30	845.09	867.29	839.89	3.61	ppb
Sulfur	34-1	91226.65	93312.19	91818.86	92119.23	1.17	ppb
Terbium	159-1				105		%
Terbium	159-2				102		%
Thallium	203-1	0.09	0.10	0.10	0.10	6.51	ppb
Thallium	205-1	0.08	0.10	0.10	0.10	10.43	ppb
Tin	118-1	0.09	0.11	0.13	0.11	14.89	ppb
Titanium	47-1	1885.51	1964.38	1961.67	1937.19	2.31	ppb

Reviewed By:Mohan
On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	ICSA002	Instrumnet Name :	P7
Client Sample ID :	ICSA002	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 10:11:14	DataFile Name :	015ICSA.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	0.01	0.02	0.02	0.02	6.00	ppb
Vanadium	51-2	0.18	0.18	0.20	0.18	5.55	ppb
Yttrium	89-1				101		%
Yttrium	89-2				100		%
Zinc	66-2	9.83	9.48	9.51	9.61	2.00	ppb
Zirconium	90-1	0.01	0.02	0.03	0.02	43.51	ppb
Zirconium	91-1	0.01	0.01	0.03	0.02	64.94	ppb

Reviewed By:Mohan
On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	ICSAB002	Instrumnet Name :	P7
Client Sample ID :	ICSAB002	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 10:14:16	DataFile Name :	016ICSB.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	85093.79	87183.89	89668.70	87315.46	2.62	ppb
Antimony	121-1	19.82	20.33	19.89	20.01	1.39	ppb
Arsenic	75-2	19.03	19.55	19.58	19.39	1.58	ppb
Barium	135-1	20.20	20.52	20.11	20.28	1.07	ppb
Barium	137-1	20.22	20.80	20.44	20.49	1.44	ppb
Beryllium	9-1	19.42	20.13	18.94	19.49	3.07	ppb
Bismuth	209-1				103		%
Bismuth	209-2				99		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	24.68	25.70	25.61	25.33	2.23	ppb
Cadmium	106-1	14.28	15.80	15.06	15.05	5.05	ppb
Cadmium	111-1	18.81	19.37	18.77	18.98	1.78	ppb
Calcium	43-1	97313.80	97908.73	96378.15	97200.23	0.79	ppb
Calcium	44-1	96689.74	97985.96	96897.62	97191.11	0.72	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	36.72	38.15	38.25	37.70	2.27	ppb
Cobalt	59-2	19.60	20.28	20.38	20.09	2.10	ppb
Copper	63-2	24.23	25.29	24.95	24.82	2.19	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				109		%
Holmium	165-2				106		%
Indium	115-1				101		%
Indium	115-2				101		%
Iron	56-2	97197.74	99270.65	98224.13	98230.84	1.06	ppb
Iron	57-2	95175.19	99724.82	98923.52	97941.18	2.48	ppb
Iron	54-2	94664.69	98202.26	99455.23	97440.73	2.55	ppb
Krypton	83-1						cps

Reviewed By:Mohan
On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	ICSAB002	Instrumnet Name :	P7
Client Sample ID :	ICSAB002	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 10:14:16	DataFile Name :	016ICSB.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	24.96	25.70	25.12	25.26	1.53	ppb
Lead	207-1	23.82	24.36	23.86	24.01	1.25	ppb
Lead	208-1	24.12	24.76	24.25	24.37	1.38	ppb
Lithium	6-1				88		%
Magnesium	24-2	86457.35	89149.35	91504.15	89036.95	2.84	ppb
Manganese	55-2	24.76	25.73	25.46	25.32	1.97	ppb
Molybdenum	94-1	1543.49	1557.03	1553.35	1551.29	0.45	ppb
Molybdenum	95-1	1896.35	1899.49	1882.46	1892.77	0.48	ppb
Molybdenum	96-1	1858.86	1884.76	1836.59	1860.07	1.30	ppb
Molybdenum	97-1	1891.41	1901.95	1876.08	1889.81	0.69	ppb
Molybdenum	98-1	1904.99	1914.66	1887.40	1902.35	0.73	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	23.35	23.68	23.84	23.62	1.07	ppb
Phosphorus	31-2	96606.10	97991.74	100951.17	98516.33	2.25	ppb
Potassium	39-2	89896.12	93062.09	93487.51	92148.57	2.13	ppb
Rhodium	103-1				98		%
Rhodium	103-2				98		%
Scandium	45-1				99		%
Scandium	45-2				101		%
Selenium	82-1	19.58	19.09	18.91	19.19	1.79	ppb
Selenium	77-2	16.32	17.01	17.58	16.97	3.74	ppb
Selenium	78-2	20.51	19.85	19.28	19.88	3.11	ppb
Silicon	28-1	0.28	0.88	0.26	0.47	74.56	ppb
Silver	107-1	18.14	18.50	18.36	18.33	1.00	ppb
Silver	109-1	18.16	18.47	18.16	18.26	0.97	ppb
Sodium	23-2	93792.76	96467.40	97112.87	95791.01	1.84	ppb
Strontium	86-1	817.18	838.09	818.67	824.65	1.41	ppb
Strontium	88-1	844.43	855.42	828.24	842.70	1.62	ppb
Sulfur	34-1	92546.93	93051.29	91038.44	92212.22	1.14	ppb
Terbium	159-1				107		%
Terbium	159-2				105		%
Thallium	203-1	20.37	20.87	20.89	20.71	1.42	ppb
Thallium	205-1	20.42	20.94	20.82	20.73	1.32	ppb
Tin	118-1	0.08	0.07	0.07	0.07	10.68	ppb
Titanium	47-1	1944.45	1990.33	1954.81	1963.20	1.23	ppb

Reviewed By:Mohan
On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	ICSAB002	Instrumnet Name :	P7
Client Sample ID :	ICSAB002	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 10:14:16	DataFile Name :	016ICSB.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	0.01	0.02	0.02	0.02	6.48	ppb
Vanadium	51-2	18.38	18.62	18.78	18.60	1.09	ppb
Yttrium	89-1				103		%
Yttrium	89-2				104		%
Zinc	66-2	26.58	27.13	27.85	27.19	2.33	ppb
Zirconium	90-1	0.01	0.01	0.01	0.01	28.61	ppb
Zirconium	91-1	0.01	0.03	0.02	0.02	54.55	ppb

Reviewed By:Mohan
On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	CCV004	Instrumnet Name :	P7
Client Sample ID :	CCV004	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 10:17:18	DataFile Name :	017CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	50239.04	49578.06	49963.89	49927.00	0.67	ppb
Antimony	121-1	498.29	512.55	515.48	508.77	1.81	ppb
Arsenic	75-2	523.71	529.41	527.12	526.75	0.54	ppb
Barium	135-1	2511.72	2544.20	2561.92	2539.28	1.00	ppb
Barium	137-1	2491.41	2547.46	2537.28	2525.38	1.18	ppb
Beryllium	9-1	514.62	545.73	538.94	533.10	3.07	ppb
Bismuth	209-1				103		%
Bismuth	209-2				97		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	493.81	517.24	513.46	508.17	2.48	ppb
Cadmium	106-1	499.51	512.48	513.10	508.36	1.51	ppb
Cadmium	111-1	505.02	524.89	517.95	515.95	1.95	ppb
Calcium	43-1	246304.78	250812.39	253541.71	250219.63	1.46	ppb
Calcium	44-1	246735.43	250135.59	253225.92	250032.31	1.30	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	510.01	504.35	514.58	509.65	1.01	ppb
Cobalt	59-2	526.92	512.58	522.19	520.56	1.40	ppb
Copper	63-2	5168.95	5093.32	5160.95	5141.07	0.81	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				112		%
Holmium	165-2				106		%
Indium	115-1				101		%
Indium	115-2				99		%
Iron	56-2	128592.77	125244.16	127374.07	127070.33	1.33	ppb
Iron	57-2	129745.35	125183.91	127677.15	127535.47	1.79	ppb
Iron	54-2	126543.29	124990.57	126232.03	125921.96	0.65	ppb
Krypton	83-1						cps

Reviewed By:Mohan
On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	CCV004	Instrumnet Name :	P7
Client Sample ID :	CCV004	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 10:17:18	DataFile Name :	017CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	2565.30	2612.06	2629.94	2602.43	1.28	ppb
Lead	207-1	2558.31	2609.90	2620.48	2596.23	1.28	ppb
Lead	208-1	2557.82	2613.08	2623.47	2598.12	1.36	ppb
Lithium	6-1				89		%
Magnesium	24-2	249664.20	243947.49	247463.35	247025.01	1.17	ppb
Manganese	55-2	5126.19	4981.51	5127.23	5078.31	1.65	ppb
Molybdenum	94-1	4962.88	5090.47	5102.87	5052.08	1.53	ppb
Molybdenum	95-1	5015.27	5129.61	5107.33	5084.07	1.19	ppb
Molybdenum	96-1	5001.19	5101.55	5134.64	5079.13	1.37	ppb
Molybdenum	97-1	4995.98	5086.18	5142.44	5074.86	1.46	ppb
Molybdenum	98-1	5012.86	5140.24	5142.63	5098.57	1.46	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	517.00	512.07	517.38	515.48	0.57	ppb
Phosphorus	31-2	10172.03	9940.10	10142.59	10084.91	1.25	ppb
Potassium	39-2	124847.59	122545.06	124495.77	123962.81	1.00	ppb
Rhodium	103-1				97		%
Rhodium	103-2				96		%
Scandium	45-1				101		%
Scandium	45-2				100		%
Selenium	82-1	501.17	506.23	515.03	507.48	1.38	ppb
Selenium	77-2	518.48	516.82	497.10	510.80	2.33	ppb
Selenium	78-2	509.93	521.60	515.33	515.62	1.13	ppb
Silicon	28-1	383.33	386.65	396.16	388.71	1.71	ppb
Silver	107-1	499.94	508.97	515.99	508.30	1.58	ppb
Silver	109-1	500.29	510.28	514.56	508.38	1.44	ppb
Sodium	23-2	258452.91	253605.57	257277.78	256445.42	0.99	ppb
Strontium	86-1	12553.82	12740.39	12967.64	12753.95	1.62	ppb
Strontium	88-1	12642.58	12877.21	12773.13	12764.31	0.92	ppb
Sulfur	34-1	9504.64	9429.09	9670.09	9534.60	1.29	ppb
Terbium	159-1				110		%
Terbium	159-2				104		%
Thallium	203-1	512.08	512.02	516.91	513.67	0.55	ppb
Thallium	205-1	513.30	523.85	523.04	520.06	1.13	ppb
Tin	118-1	484.79	506.29	510.25	500.45	2.74	ppb
Titanium	47-1	4950.79	5085.61	5103.95	5046.78	1.66	ppb

Reviewed By:Mohan
On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	CCV004	Instrumnet Name :	P7
Client Sample ID :	CCV004	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 10:17:18	DataFile Name :	017CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	517.22	525.44	529.35	524.00	1.18	ppb
Vanadium	51-2	523.08	517.03	523.39	521.16	0.69	ppb
Yttrium	89-1				106		%
Yttrium	89-2				103		%
Zinc	66-2	5225.21	5127.20	5202.94	5185.12	0.99	ppb
Zirconium	90-1	500.64	514.78	519.20	511.54	1.90	ppb
Zirconium	91-1	502.44	507.17	521.24	510.28	1.92	ppb

Reviewed By:Mohan
On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	CCB004	Instrumnet Name :	P7
Client Sample ID :	CCB004	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 10:19:57	DataFile Name :	018CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	0.59	0.72	0.38	0.56	29.93	ppb
Antimony	121-1	0.24	0.24	0.30	0.26	13.86	ppb
Arsenic	75-2	0.02	0.00	0.01	0.01	106.97	ppb
Barium	135-1	0.43	0.18	0.09	0.23	76.72	ppb
Barium	137-1	0.45	0.20	0.07	0.24	79.99	ppb
Beryllium	9-1	0.12	0.09	0.05	0.09	40.14	ppb
Bismuth	209-1				108		%
Bismuth	209-2				106		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	0.12	0.11	0.05	0.09	44.74	ppb
Cadmium	106-1	-1.44	-1.80	-1.62	-1.62		ppb
Cadmium	111-1	0.01	-0.08	-0.09	-0.05		ppb
Calcium	43-1	46.53	17.95	11.21	25.23	74.32	ppb
Calcium	44-1	44.85	20.73	8.28	24.62	75.51	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	-0.03	-0.02	0.00	-0.02		ppb
Cobalt	59-2	0.00	0.00	0.00	0.00		ppb
Copper	63-2	0.15	0.13	0.12	0.13	9.80	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				106		%
Holmium	165-2				106		%
Indium	115-1				102		%
Indium	115-2				104		%
Iron	56-2	2.23	1.93	1.68	1.94	14.16	ppb
Iron	57-2	1.87	1.94	0.94	1.58	35.26	ppb
Iron	54-2	1.76	2.19	1.66	1.87	14.98	ppb
Krypton	83-1						cps

Reviewed By:Mohan
On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	CCB004	Instrumnet Name :	P7
Client Sample ID :	CCB004	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 10:19:57	DataFile Name :	018CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	0.47	0.22	0.12	0.27	66.76	ppb
Lead	207-1	0.46	0.25	0.12	0.27	63.91	ppb
Lead	208-1	0.46	0.23	0.12	0.27	64.66	ppb
Lithium	6-1				96		%
Magnesium	24-2	3.24	2.97	2.16	2.79	20.19	ppb
Manganese	55-2	0.02	0.07	0.01	0.03	111.86	ppb
Molybdenum	94-1	1.16	0.71	0.52	0.80	41.59	ppb
Molybdenum	95-1	1.00	0.53	0.31	0.61	57.07	ppb
Molybdenum	96-1	1.01	0.55	0.33	0.63	55.13	ppb
Molybdenum	97-1	1.02	0.54	0.30	0.62	58.98	ppb
Molybdenum	98-1	1.00	0.52	0.33	0.62	56.16	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	-0.01	-0.01	0.00	0.00		ppb
Phosphorus	31-2	-16.08	-20.13	-17.58	-17.93		ppb
Potassium	39-2	19.37	21.12	18.36	19.62	7.11	ppb
Rhodium	103-1				100		%
Rhodium	103-2				105		%
Scandium	45-1				98		%
Scandium	45-2				99		%
Selenium	82-1	0.23	0.15	-0.11	0.09	194.48	ppb
Selenium	77-2	0.00	0.00	0.00	0.00	N/A	ppb
Selenium	78-2	0.31	0.13	0.17	0.21	46.13	ppb
Silicon	28-1	-1.69	-2.62	-2.37	-2.23		ppb
Silver	107-1	0.12	0.06	0.04	0.07	60.01	ppb
Silver	109-1	0.11	0.06	0.03	0.07	62.13	ppb
Sodium	23-2	13.38	13.95	13.45	13.59	2.29	ppb
Strontium	86-1	2.08	1.22	0.58	1.30	58.07	ppb
Strontium	88-1	2.12	0.93	0.35	1.13	79.81	ppb
Sulfur	34-1	-676.90	-726.42	-698.97	-700.76		ppb
Terbium	159-1				104		%
Terbium	159-2				104		%
Thallium	203-1	0.15	0.10	0.07	0.11	39.81	ppb
Thallium	205-1	0.14	0.09	0.07	0.10	34.13	ppb
Tin	118-1	0.10	0.05	0.04	0.06	49.40	ppb
Titanium	47-1	0.85	0.46	0.21	0.51	63.14	ppb

Reviewed By:Mohan
On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	CCB004	Instrumnet Name :	P7
Client Sample ID :	CCB004	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 10:19:57	DataFile Name :	018CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	0.08	0.04	0.02	0.05	70.75	ppb
Vanadium	51-2	0.01	0.01	0.01	0.01	22.75	ppb
Yttrium	89-1				101		%
Yttrium	89-2				104		%
Zinc	66-2	0.06	0.37	-0.11	0.11	229.69	ppb
Zirconium	90-1	0.18	0.14	0.13	0.15	15.98	ppb
Zirconium	91-1	0.19	0.14	0.13	0.15	23.09	ppb

Reviewed By:Mohan
On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	PB165018BL	Instrumnet Name :	P7
Client Sample ID :	PBW018	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 10:23:13	DataFile Name :	019CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	-0.06	-0.14	-0.01	-0.07		ppb
Antimony	121-1	0.03	0.05	0.06	0.05	32.42	ppb
Arsenic	75-2	0.01	0.00	0.00	0.00	294.32	ppb
Barium	135-1	0.00	0.01	0.00	0.01	118.25	ppb
Barium	137-1	0.00	-0.01	0.00	0.00		ppb
Beryllium	9-1	0.01	0.03	0.04	0.03	40.47	ppb
Bismuth	209-1				110		%
Bismuth	209-2				106		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	0.08	0.04	-0.02	0.04	145.74	ppb
Cadmium	106-1	-0.80	-1.39	-1.61	-1.27		ppb
Cadmium	111-1	-0.05	-0.09	-0.10	-0.08		ppb
Calcium	43-1	-8.53	-6.12	-4.86	-6.50		ppb
Calcium	44-1	-7.78	-5.06	-2.05	-4.97		ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	-0.02	-0.04	-0.02	-0.03		ppb
Cobalt	59-2	-0.01	-0.01	-0.01	-0.01		ppb
Copper	63-2	0.03	0.02	0.06	0.04	45.33	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				109		%
Holmium	165-2				107		%
Indium	115-1				105		%
Indium	115-2				105		%
Iron	56-2	0.29	-0.08	-0.02	0.06	319.13	ppb
Iron	57-2	-0.24	-0.62	-1.29	-0.72		ppb
Iron	54-2	0.18	-0.21	-0.33	-0.12		ppb
Krypton	83-1						cps

Reviewed By:Mohan
On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	PB165018BL	Instrumnet Name :	P7
Client Sample ID :	PBW018	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 10:23:13	DataFile Name :	019CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	0.04	0.02	0.03	0.03	31.43	ppb
Lead	207-1	0.03	0.03	0.01	0.02	38.38	ppb
Lead	208-1	0.03	0.03	0.02	0.03	9.96	ppb
Lithium	6-1				98		%
Magnesium	24-2	0.23	0.15	0.09	0.16	43.62	ppb
Manganese	55-2	-0.03	-0.14	0.00	-0.05		ppb
Molybdenum	94-1	0.04	0.06	0.07	0.06	31.86	ppb
Molybdenum	95-1	0.02	0.03	0.03	0.03	24.25	ppb
Molybdenum	96-1	0.03	0.03	0.04	0.03	17.55	ppb
Molybdenum	97-1	0.03	0.03	0.03	0.03	4.45	ppb
Molybdenum	98-1	0.02	0.03	0.03	0.03	18.57	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	-0.03	-0.01	-0.03	-0.03		ppb
Phosphorus	31-2	-18.98	-19.47	-21.06	-19.83		ppb
Potassium	39-2	11.87	9.92	10.36	10.72	9.49	ppb
Rhodium	103-1				105		%
Rhodium	103-2				106		%
Scandium	45-1				101		%
Scandium	45-2				101		%
Selenium	82-1	0.29	-0.07	-0.16	0.02	1119.10	ppb
Selenium	77-2	0.00	0.36	0.09	0.15	124.93	ppb
Selenium	78-2	0.78	0.13	0.49	0.47	69.69	ppb
Silicon	28-1	-3.88	-3.20	-2.94	-3.34		ppb
Silver	107-1	0.01	0.01	0.01	0.01	17.69	ppb
Silver	109-1	0.01	0.01	0.01	0.01	13.02	ppb
Sodium	23-2	5.61	3.83	4.81	4.75	18.75	ppb
Strontium	86-1	0.08	-0.33	0.00	-0.08		ppb
Strontium	88-1	-0.18	-0.15	0.00	-0.11		ppb
Sulfur	34-1	-717.19	-680.21	-633.97	-677.12		ppb
Terbium	159-1				107		%
Terbium	159-2				105		%
Thallium	203-1	0.04	0.04	0.04	0.04	5.40	ppb
Thallium	205-1	0.04	0.04	0.04	0.04	4.04	ppb
Tin	118-1	-0.02	0.00	0.01	0.00		ppb
Titanium	47-1	0.01	0.03	0.01	0.02	64.78	ppb

Reviewed By:Mohan
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Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	PB165018BL	Instrumnet Name :	P7
Client Sample ID :	PBW018	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 10:23:13	DataFile Name :	019CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	0.00	0.00	0.00	0.00	56.21	ppb
Vanadium	51-2	0.00	0.00	0.00	0.00	68.81	ppb
Yttrium	89-1				105		%
Yttrium	89-2				104		%
Zinc	66-2	0.14	-0.19	-0.15	-0.07		ppb
Zirconium	90-1	0.01	0.02	0.03	0.02	38.21	ppb
Zirconium	91-1	0.01	0.02	0.04	0.02	59.27	ppb

Reviewed By:Mohan
On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	PB165018BS	Instrumnet Name :	P7
Client Sample ID :	LCS018	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 10:26:27	DataFile Name :	020LCSE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	40.74	39.58	39.53	39.95	1.72	ppb
Antimony	121-1	4.21	4.46	4.51	4.39	3.64	ppb
Arsenic	75-2	2.15	2.39	2.20	2.25	5.56	ppb
Barium	135-1	20.51	21.80	21.63	21.32	3.29	ppb
Barium	137-1	20.96	22.02	21.96	21.65	2.77	ppb
Beryllium	9-1	2.07	2.19	2.23	2.16	4.00	ppb
Bismuth	209-1				106		%
Bismuth	209-2				107		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	1.79	2.16	2.46	2.14	15.62	ppb
Cadmium	106-1	1.11	1.15	0.48	0.91	41.46	ppb
Cadmium	111-1	2.09	2.23	2.08	2.13	3.88	ppb
Calcium	43-1	1019.29	1090.20	1076.36	1061.95	3.54	ppb
Calcium	44-1	1009.43	1076.78	1057.31	1047.84	3.31	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	4.48	4.39	4.25	4.37	2.62	ppb
Cobalt	59-2	2.26	2.31	2.17	2.25	3.10	ppb
Copper	63-2	4.72	4.57	4.55	4.61	2.06	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				105		%
Holmium	165-2				107		%
Indium	115-1				103		%
Indium	115-2				106		%
Iron	56-2	462.04	456.74	453.18	457.32	0.97	ppb
Iron	57-2	469.68	457.96	452.09	459.91	1.95	ppb
Iron	54-2	462.77	464.31	450.69	459.26	1.62	ppb
Krypton	83-1						cps

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Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	PB165018BS	Instrumnet Name :	P7
Client Sample ID :	LCS018	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 10:26:27	DataFile Name :	020LCSE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	2.10	2.26	2.25	2.20	4.16	ppb
Lead	207-1	2.11	2.30	2.24	2.22	4.30	ppb
Lead	208-1	2.12	2.26	2.24	2.20	3.51	ppb
Lithium	6-1				95		%
Magnesium	24-2	1017.31	1013.23	978.13	1002.89	2.15	ppb
Manganese	55-2	2.14	2.21	2.17	2.17	1.49	ppb
Molybdenum	94-1	12.21	12.59	12.54	12.45	1.65	ppb
Molybdenum	95-1	10.04	10.71	10.51	10.42	3.27	ppb
Molybdenum	96-1	10.31	10.85	10.69	10.62	2.63	ppb
Molybdenum	97-1	10.21	10.66	10.53	10.46	2.21	ppb
Molybdenum	98-1	10.27	10.86	10.59	10.57	2.78	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	2.21	2.30	2.25	2.25	1.92	ppb
Phosphorus	31-2	-18.38	-18.89	-17.70	-18.32		ppb
Potassium	39-2	1076.27	1075.92	1051.94	1068.04	1.31	ppb
Rhodium	103-1				103		%
Rhodium	103-2				106		%
Scandium	45-1				100		%
Scandium	45-2				101		%
Selenium	82-1	10.32	11.44	10.91	10.89	5.16	ppb
Selenium	77-2	12.27	10.35	10.86	11.16	8.91	ppb
Selenium	78-2	10.79	11.40	11.18	11.12	2.79	ppb
Silicon	28-1	1.33	2.63	2.12	2.03	32.23	ppb
Silver	107-1	2.18	2.29	2.29	2.25	2.91	ppb
Silver	109-1	2.17	2.27	2.30	2.25	3.17	ppb
Sodium	23-2	1103.63	1083.42	1089.90	1092.31	0.94	ppb
Strontium	86-1	51.57	53.54	54.13	53.08	2.53	ppb
Strontium	88-1	52.40	54.66	54.03	53.69	2.17	ppb
Sulfur	34-1	-513.30	-402.09	-455.46	-456.95		ppb
Terbium	159-1				104		%
Terbium	159-2				106		%
Thallium	203-1	2.08	2.14	2.15	2.12	1.94	ppb
Thallium	205-1	2.06	2.16	2.16	2.12	2.82	ppb
Tin	118-1	0.00	0.03	0.04	0.02	103.40	ppb
Titanium	47-1	10.29	10.89	10.62	10.60	2.85	ppb

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Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	PB165018BS	Instrumnet Name :	P7
Client Sample ID :	LCS018	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 10:26:27	DataFile Name :	020LCSE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	1.91	2.02	2.06	2.00	3.78	ppb
Vanadium	51-2	10.89	10.75	10.45	10.70	2.12	ppb
Yttrium	89-1				103		%
Yttrium	89-2				105		%
Zinc	66-2	12.40	12.09	11.39	11.96	4.33	ppb
Zirconium	90-1	2.09	2.24	2.18	2.17	3.55	ppb
Zirconium	91-1	2.11	2.25	2.13	2.16	3.47	ppb

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Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	PB165103BL	Instrumnet Name :	P7
Client Sample ID :	PBW103	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 10:29:41	DataFile Name :	021CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	-0.09	-0.15	-0.07	-0.11		ppb
Antimony	121-1	0.01	0.02	0.02	0.02	21.62	ppb
Arsenic	75-2	0.00	0.00	-0.01	0.00		ppb
Barium	135-1	0.00	0.00	0.01	0.01	106.08	ppb
Barium	137-1	0.00	0.00	0.00	0.00	293.59	ppb
Beryllium	9-1	0.01	0.01	0.01	0.01	31.77	ppb
Bismuth	209-1				109		%
Bismuth	209-2				107		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	0.02	0.04	0.02	0.03	27.88	ppb
Cadmium	106-1	-0.71	-1.51	-1.01	-1.08		ppb
Cadmium	111-1	-0.04	-0.10	-0.07	-0.07		ppb
Calcium	43-1	-4.82	0.54	-3.52	-2.60		ppb
Calcium	44-1	-2.24	-3.96	-5.43	-3.88		ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.02	-0.03	-0.02	-0.01		ppb
Cobalt	59-2	0.00	-0.01	0.00	0.00		ppb
Copper	63-2	0.03	0.04	0.03	0.03	17.48	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				108		%
Holmium	165-2				107		%
Indium	115-1				106		%
Indium	115-2				107		%
Iron	56-2	-0.01	0.09	0.01	0.03	207.54	ppb
Iron	57-2	-0.30	0.08	-0.50	-0.24		ppb
Iron	54-2	0.25	0.40	0.01	0.22	89.08	ppb
Krypton	83-1						cps

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Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	PB165103BL	Instrumnet Name :	P7
Client Sample ID :	PBW103	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 10:29:41	DataFile Name :	021CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	0.02	0.03	0.02	0.02	29.43	ppb
Lead	207-1	0.02	0.01	0.03	0.02	37.85	ppb
Lead	208-1	0.01	0.02	0.02	0.02	16.06	ppb
Lithium	6-1				97		%
Magnesium	24-2	0.28	0.38	0.42	0.36	20.64	ppb
Manganese	55-2	-0.03	-0.04	-0.11	-0.06		ppb
Molybdenum	94-1	0.02	0.03	0.10	0.05	85.55	ppb
Molybdenum	95-1	0.01	0.01	0.06	0.03	99.71	ppb
Molybdenum	96-1	0.00	0.01	0.09	0.03	136.07	ppb
Molybdenum	97-1	0.02	0.01	0.07	0.03	108.47	ppb
Molybdenum	98-1	0.01	0.01	0.05	0.03	90.32	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	-0.02	0.00	-0.04	-0.02		ppb
Phosphorus	31-2	-19.69	-16.38	-19.53	-18.53		ppb
Potassium	39-2	5.97	6.93	3.95	5.62	27.03	ppb
Rhodium	103-1				105		%
Rhodium	103-2				107		%
Scandium	45-1				102		%
Scandium	45-2				103		%
Selenium	82-1	0.32	0.25	0.14	0.23	37.89	ppb
Selenium	77-2	0.00	0.00	0.00	0.00	N/A	ppb
Selenium	78-2	0.02	0.19	-0.07	0.05	279.90	ppb
Silicon	28-1	-2.98	-2.60	-2.88	-2.82		ppb
Silver	107-1	0.01	0.01	0.01	0.01	14.07	ppb
Silver	109-1	0.01	0.01	0.01	0.01	8.02	ppb
Sodium	23-2	-0.17	1.00	-0.99	-0.05		ppb
Strontium	86-1	-0.24	-0.17	0.30	-0.04		ppb
Strontium	88-1	-0.04	0.01	0.23	0.07	221.97	ppb
Sulfur	34-1	-451.24	-508.51	-542.27	-500.68		ppb
Terbium	159-1				107		%
Terbium	159-2				107		%
Thallium	203-1	0.03	0.02	0.03	0.02	16.11	ppb
Thallium	205-1	0.03	0.02	0.02	0.02	3.68	ppb
Tin	118-1	-0.02	-0.02	-0.01	-0.02		ppb
Titanium	47-1	0.01	0.01	0.01	0.01	24.71	ppb

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Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	PB165103BL	Instrumnet Name :	P7
Client Sample ID :	PBW103	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 10:29:41	DataFile Name :	021CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	0.00	0.00	0.00	0.00	29.88	ppb
Vanadium	51-2	0.00	0.00	0.00	0.00		ppb
Yttrium	89-1				106		%
Yttrium	89-2				107		%
Zinc	66-2	0.07	0.20	-0.46	-0.06		ppb
Zirconium	90-1	0.00	0.01	0.02	0.01	119.51	ppb
Zirconium	91-1	0.00	0.01	0.02	0.01	123.09	ppb

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Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	PB165103BS	Instrumnet Name :	P7
Client Sample ID :	LCS103	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 10:32:55	DataFile Name :	022CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	40.55	38.69	39.45	39.56	2.37	ppb
Antimony	121-1	4.24	4.29	4.33	4.29	1.03	ppb
Arsenic	75-2	2.18	2.20	2.18	2.18	0.63	ppb
Barium	135-1	20.88	20.81	21.48	21.06	1.74	ppb
Barium	137-1	21.06	21.34	21.13	21.18	0.68	ppb
Beryllium	9-1	2.09	2.14	2.04	2.09	2.32	ppb
Bismuth	209-1				108		%
Bismuth	209-2				106		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	2.22	2.20	2.12	2.18	2.53	ppb
Cadmium	106-1	1.20	1.10	1.40	1.23	12.50	ppb
Cadmium	111-1	2.13	2.11	2.16	2.13	1.22	ppb
Calcium	43-1	1026.33	1010.13	1027.99	1021.48	0.97	ppb
Calcium	44-1	1034.21	1013.09	1018.09	1021.79	1.08	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	4.36	4.47	4.32	4.38	1.81	ppb
Cobalt	59-2	2.23	2.27	2.21	2.24	1.32	ppb
Copper	63-2	4.64	4.59	4.55	4.59	0.97	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				109		%
Holmium	165-2				107		%
Indium	115-1				105		%
Indium	115-2				107		%
Iron	56-2	462.54	457.58	450.80	456.97	1.29	ppb
Iron	57-2	458.46	459.70	452.77	456.98	0.81	ppb
Iron	54-2	460.67	454.19	458.43	457.76	0.72	ppb
Krypton	83-1						cps

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On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	PB165103BS	Instrumnet Name :	P7
Client Sample ID :	LCS103	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 10:32:55	DataFile Name :	022CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	2.09	2.16	2.18	2.14	2.25	ppb
Lead	207-1	2.08	2.10	2.15	2.11	1.68	ppb
Lead	208-1	2.09	2.13	2.13	2.12	1.25	ppb
Lithium	6-1				97		%
Magnesium	24-2	1007.69	999.10	990.31	999.03	0.87	ppb
Manganese	55-2	2.23	2.16	2.14	2.18	2.07	ppb
Molybdenum	94-1	12.18	12.12	12.43	12.24	1.34	ppb
Molybdenum	95-1	10.21	10.08	10.26	10.18	0.90	ppb
Molybdenum	96-1	10.34	10.20	10.39	10.31	0.95	ppb
Molybdenum	97-1	10.30	10.13	10.29	10.24	0.91	ppb
Molybdenum	98-1	10.28	10.10	10.38	10.26	1.38	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	2.27	2.37	2.27	2.30	2.53	ppb
Phosphorus	31-2	-18.21	-18.11	-16.50	-17.61		ppb
Potassium	39-2	1092.66	1059.28	1044.13	1065.36	2.33	ppb
Rhodium	103-1				106		%
Rhodium	103-2				106		%
Scandium	45-1				104		%
Scandium	45-2				102		%
Selenium	82-1	11.06	10.35	10.55	10.66	3.45	ppb
Selenium	77-2	10.78	9.34	9.85	9.99	7.31	ppb
Selenium	78-2	11.22	10.82	11.59	11.21	3.45	ppb
Silicon	28-1	1.58	1.33	1.30	1.40	10.69	ppb
Silver	107-1	2.18	2.25	2.24	2.22	1.75	ppb
Silver	109-1	2.18	2.21	2.25	2.21	1.42	ppb
Sodium	23-2	1075.65	1106.16	1071.89	1084.57	1.73	ppb
Strontium	86-1	52.85	52.35	52.80	52.66	0.52	ppb
Strontium	88-1	52.64	51.47	52.80	52.30	1.39	ppb
Sulfur	34-1	-364.75	-445.64	-443.13	-417.84		ppb
Terbium	159-1				107		%
Terbium	159-2				106		%
Thallium	203-1	2.04	2.04	2.09	2.06	1.29	ppb
Thallium	205-1	2.03	2.06	2.11	2.06	2.00	ppb
Tin	118-1	0.01	0.03	0.02	0.02	55.50	ppb
Titanium	47-1	10.25	10.08	10.15	10.16	0.81	ppb

Reviewed By:Mohan
On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	PB165103BS	Instrumnet Name :	P7
Client Sample ID :	LCS103	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 10:32:55	DataFile Name :	022CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	1.92	1.95	1.96	1.94	0.98	ppb
Vanadium	51-2	10.79	10.56	10.51	10.62	1.40	ppb
Yttrium	89-1				106		%
Yttrium	89-2				106		%
Zinc	66-2	11.18	11.33	11.18	11.23	0.74	ppb
Zirconium	90-1	2.10	2.07	2.14	2.11	1.67	ppb
Zirconium	91-1	2.08	2.07	2.18	2.11	2.75	ppb

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On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	PB165104BL	Instrumnet Name :	P7
Client Sample ID :	PBW104	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 10:36:08	DataFile Name :	023SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	-0.19	-0.25	-0.20	-0.22		ppb
Antimony	121-1	0.01	0.01	0.01	0.01	23.97	ppb
Arsenic	75-2	0.00	0.00	0.00	0.00	117.57	ppb
Barium	135-1	0.00	0.00	0.01	0.00	114.88	ppb
Barium	137-1	0.00	0.00	0.00	0.00		ppb
Beryllium	9-1	0.02	0.02	0.02	0.02	2.56	ppb
Bismuth	209-1				106		%
Bismuth	209-2				106		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	0.01	-0.01	-0.03	-0.01		ppb
Cadmium	106-1	-0.76	-1.09	-0.88	-0.91		ppb
Cadmium	111-1	-0.05	-0.07	-0.06	-0.06		ppb
Calcium	43-1	-10.04	6.30	-3.64	-2.46		ppb
Calcium	44-1	-8.44	5.06	-4.36	-2.58		ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.00	-0.03	0.00	-0.01		ppb
Cobalt	59-2	-0.01	0.00	0.00	0.00		ppb
Copper	63-2	0.04	0.03	0.03	0.03	24.36	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				107		%
Holmium	165-2				106		%
Indium	115-1				105		%
Indium	115-2				106		%
Iron	56-2	0.14	0.04	0.05	0.08	72.11	ppb
Iron	57-2	-0.39	-0.10	0.26	-0.08		ppb
Iron	54-2	0.42	0.13	-0.23	0.10	313.27	ppb
Krypton	83-1						cps

Reviewed By:Mohan
On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	PB165104BL	Instrumnet Name :	P7
Client Sample ID :	PBW104	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 10:36:08	DataFile Name :	023SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	0.00	0.02	0.01	0.01	111.54	ppb
Lead	207-1	0.01	0.03	0.02	0.02	55.87	ppb
Lead	208-1	0.01	0.02	0.01	0.01	47.35	ppb
Lithium	6-1				97		%
Magnesium	24-2	0.12	0.18	0.03	0.11	70.38	ppb
Manganese	55-2	0.06	-0.01	-0.04	0.00	1926.95	ppb
Molybdenum	94-1	-0.01	0.01	0.01	0.00	201.11	ppb
Molybdenum	95-1	0.01	0.01	0.00	0.01	19.31	ppb
Molybdenum	96-1	0.01	0.00	0.00	0.00	31.81	ppb
Molybdenum	97-1	0.01	0.00	0.00	0.01	78.99	ppb
Molybdenum	98-1	0.01	0.00	0.00	0.00	39.63	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	-0.03	-0.02	-0.05	-0.03		ppb
Phosphorus	31-2	-16.86	-17.66	-19.31	-17.95		ppb
Potassium	39-2	5.44	3.25	3.47	4.05	29.81	ppb
Rhodium	103-1				106		%
Rhodium	103-2				106		%
Scandium	45-1				102		%
Scandium	45-2				103		%
Selenium	82-1	-0.04	-0.22	-0.23	-0.16		ppb
Selenium	77-2	0.09	0.09	0.00	0.06	86.60	ppb
Selenium	78-2	0.68	0.57	-0.06	0.40	101.52	ppb
Silicon	28-1	-2.53	-0.67	-2.51	-1.90		ppb
Silver	107-1	0.01	0.01	0.01	0.01	26.55	ppb
Silver	109-1	0.01	0.01	0.01	0.01	22.30	ppb
Sodium	23-2	-1.75	-1.99	0.33	-1.14		ppb
Strontium	86-1	-0.20	0.26	-0.08	-0.01		ppb
Strontium	88-1	-0.01	0.10	0.01	0.03	192.70	ppb
Sulfur	34-1	-446.23	-243.80	-431.25	-373.76		ppb
Terbium	159-1				106		%
Terbium	159-2				105		%
Thallium	203-1	0.01	0.02	0.01	0.02	31.93	ppb
Thallium	205-1	0.02	0.02	0.02	0.02	13.98	ppb
Tin	118-1	-0.03	0.00	-0.02	-0.01		ppb
Titanium	47-1	0.03	0.01	0.01	0.02	60.79	ppb

Reviewed By:Mohan
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Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	PB165104BL	Instrumnet Name :	P7
Client Sample ID :	PBW104	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 10:36:08	DataFile Name :	023SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	0.00	0.00	0.00	0.00	29.78	ppb
Vanadium	51-2	0.00	0.00	0.00	0.00	80.97	ppb
Yttrium	89-1				105		%
Yttrium	89-2				105		%
Zinc	66-2	-0.10	-0.25	-0.14	-0.16		ppb
Zirconium	90-1	0.00	0.00	0.01	0.00	138.49	ppb
Zirconium	91-1	-0.01	0.01	0.01	0.00	260.38	ppb

Reviewed By:Mohan
On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	PB165104BS	Instrumnet Name :	P7
Client Sample ID :	LCS104	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 10:39:22	DataFile Name :	024SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	38.09	39.81	39.79	39.23	2.52	ppb
Antimony	121-1	4.28	4.28	4.31	4.29	0.40	ppb
Arsenic	75-2	2.26	2.25	2.22	2.24	0.78	ppb
Barium	135-1	20.75	21.03	21.04	20.94	0.80	ppb
Barium	137-1	20.96	21.18	21.13	21.09	0.55	ppb
Beryllium	9-1	2.06	1.96	2.04	2.02	2.55	ppb
Bismuth	209-1				107		%
Bismuth	209-2				106		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	2.35	2.29	2.27	2.30	1.91	ppb
Cadmium	106-1	2.18	1.32	0.96	1.49	42.05	ppb
Cadmium	111-1	2.16	2.20	2.10	2.15	2.36	ppb
Calcium	43-1	1036.83	1035.93	1031.67	1034.81	0.27	ppb
Calcium	44-1	997.93	1018.79	1011.99	1009.57	1.05	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	4.34	4.39	4.49	4.41	1.68	ppb
Cobalt	59-2	2.25	2.28	2.26	2.26	0.68	ppb
Copper	63-2	4.57	4.64	4.67	4.63	1.10	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				107		%
Holmium	165-2				105		%
Indium	115-1				106		%
Indium	115-2				106		%
Iron	56-2	450.37	459.95	453.89	454.74	1.07	ppb
Iron	57-2	450.10	461.56	458.29	456.65	1.29	ppb
Iron	54-2	451.19	459.93	456.40	455.84	0.96	ppb
Krypton	83-1						cps

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Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	PB165104BS	Instrumnet Name :	P7
Client Sample ID :	LCS104	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 10:39:22	DataFile Name :	024SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	2.10	2.13	2.13	2.12	0.78	ppb
Lead	207-1	2.14	2.13	2.11	2.12	0.73	ppb
Lead	208-1	2.10	2.13	2.11	2.11	0.64	ppb
Lithium	6-1				95		%
Magnesium	24-2	977.16	991.01	1005.80	991.32	1.44	ppb
Manganese	55-2	2.12	2.14	2.18	2.15	1.39	ppb
Molybdenum	94-1	12.12	12.29	12.25	12.22	0.72	ppb
Molybdenum	95-1	10.15	10.24	10.31	10.23	0.77	ppb
Molybdenum	96-1	10.30	10.46	10.50	10.42	1.01	ppb
Molybdenum	97-1	10.27	10.23	10.31	10.27	0.40	ppb
Molybdenum	98-1	10.28	10.27	10.46	10.34	0.99	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	2.27	2.27	2.29	2.28	0.67	ppb
Phosphorus	31-2	-17.94	-18.26	-17.02	-17.74		ppb
Potassium	39-2	1048.55	1076.04	1079.39	1067.99	1.58	ppb
Rhodium	103-1				106		%
Rhodium	103-2				106		%
Scandium	45-1				103		%
Scandium	45-2				101		%
Selenium	82-1	10.84	10.95	10.47	10.75	2.33	ppb
Selenium	77-2	10.96	8.81	10.28	10.02	10.95	ppb
Selenium	78-2	10.75	11.55	11.73	11.34	4.62	ppb
Silicon	28-1	2.53	2.56	1.82	2.30	18.00	ppb
Silver	107-1	2.16	2.20	2.21	2.19	1.17	ppb
Silver	109-1	2.17	2.21	2.25	2.21	1.75	ppb
Sodium	23-2	1078.15	1079.64	1101.83	1086.54	1.22	ppb
Strontium	86-1	51.69	52.64	52.33	52.22	0.93	ppb
Strontium	88-1	52.45	52.18	53.51	52.71	1.33	ppb
Sulfur	34-1	-322.84	-435.43	-396.67	-384.98		ppb
Terbium	159-1				107		%
Terbium	159-2				105		%
Thallium	203-1	2.05	2.07	2.07	2.06	0.66	ppb
Thallium	205-1	2.06	2.08	2.04	2.06	1.14	ppb
Tin	118-1	0.01	-0.01	0.00	0.00	1134.70	ppb
Titanium	47-1	10.37	10.47	10.30	10.38	0.81	ppb

Reviewed By:Mohan
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Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	PB165104BS	Instrumnet Name :	P7
Client Sample ID :	LCS104	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 10:39:22	DataFile Name :	024SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	1.93	1.95	1.93	1.94	0.60	ppb
Vanadium	51-2	10.40	10.69	10.53	10.54	1.37	ppb
Yttrium	89-1				106		%
Yttrium	89-2				105		%
Zinc	66-2	10.87	11.13	11.11	11.03	1.32	ppb
Zirconium	90-1	2.10	2.13	2.14	2.12	0.79	ppb
Zirconium	91-1	2.17	2.12	2.12	2.14	1.22	ppb

Reviewed By:Mohan
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Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	PB165107BL	Instrumnet Name :	P7
Client Sample ID :	PBS107	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 10:42:35	DataFile Name :	025SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	-0.19	-0.24	-0.34	-0.26		ppb
Antimony	121-1	0.00	0.00	0.01	0.00	57.86	ppb
Arsenic	75-2	-0.01	0.01	0.00	0.00		ppb
Barium	135-1	0.00	0.01	0.00	0.01	127.91	ppb
Barium	137-1	0.01	0.01	0.00	0.00	186.21	ppb
Beryllium	9-1	0.02	0.02	0.00	0.01	94.81	ppb
Bismuth	209-1				107		%
Bismuth	209-2				106		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	0.03	0.01	0.03	0.02	52.72	ppb
Cadmium	106-1	-0.69	-1.03	-1.18	-0.97		ppb
Cadmium	111-1	-0.05	-0.07	-0.08	-0.07		ppb
Calcium	43-1	-1.55	0.59	1.28	0.11	1376.67	ppb
Calcium	44-1	-4.64	-4.08	-5.30	-4.67		ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	-0.03	-0.03	-0.04	-0.03		ppb
Cobalt	59-2	0.00	-0.01	0.00	-0.01		ppb
Copper	63-2	0.01	-0.01	0.02	0.01	168.20	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				107		%
Holmium	165-2				106		%
Indium	115-1				105		%
Indium	115-2				107		%
Iron	56-2	-0.08	-0.02	-0.23	-0.11		ppb
Iron	57-2	-0.49	-0.49	0.29	-0.23		ppb
Iron	54-2	0.52	-0.40	-0.37	-0.08		ppb
Krypton	83-1						cps

Reviewed By:Mohan
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Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	PB165107BL	Instrumnet Name :	P7
Client Sample ID :	PBS107	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 10:42:35	DataFile Name :	025SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	0.01	0.00	-0.01	0.00		ppb
Lead	207-1	0.00	0.00	0.00	0.00	43.27	ppb
Lead	208-1	0.00	-0.01	0.00	0.00	6702.74	ppb
Lithium	6-1				96		%
Magnesium	24-2	0.13	-0.02	-0.08	0.01	1042.09	ppb
Manganese	55-2	-0.01	-0.07	-0.03	-0.04		ppb
Molybdenum	94-1	-0.01	0.00	0.00	0.00		ppb
Molybdenum	95-1	0.00	0.00	0.00	0.00	19.03	ppb
Molybdenum	96-1	0.00	0.00	0.00	0.00	111.98	ppb
Molybdenum	97-1	0.00	0.01	0.00	0.00	28.75	ppb
Molybdenum	98-1	0.00	0.00	0.00	0.00	34.63	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	-0.03	-0.03	-0.04	-0.03		ppb
Phosphorus	31-2	-18.40	-18.38	-19.74	-18.84		ppb
Potassium	39-2	2.39	1.25	1.24	1.63	40.52	ppb
Rhodium	103-1				106		%
Rhodium	103-2				106		%
Scandium	45-1				103		%
Scandium	45-2				104		%
Selenium	82-1	0.06	-0.19	-0.07	-0.07		ppb
Selenium	77-2	0.18	0.09	0.00	0.09	100.24	ppb
Selenium	78-2	0.43	0.46	0.51	0.47	8.27	ppb
Silicon	28-1	-1.77	-0.80	-1.74	-1.43		ppb
Silver	107-1	0.01	0.00	0.01	0.01	28.78	ppb
Silver	109-1	0.01	0.01	0.01	0.01	18.95	ppb
Sodium	23-2	-3.39	-4.06	-4.63	-4.03		ppb
Strontium	86-1	-0.06	-0.21	0.07	-0.07		ppb
Strontium	88-1	0.02	0.08	0.01	0.04	106.09	ppb
Sulfur	34-1	-408.05	-424.86	-463.87	-432.26		ppb
Terbium	159-1				106		%
Terbium	159-2				105		%
Thallium	203-1	0.01	0.01	0.01	0.01	16.06	ppb
Thallium	205-1	0.01	0.01	0.01	0.01	16.20	ppb
Tin	118-1	-0.01	-0.02	0.01	-0.01		ppb
Titanium	47-1	0.03	0.00	0.00	0.01	135.84	ppb

Reviewed By:Mohan
On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	PB165107BL	Instrumnet Name :	P7
Client Sample ID :	PBS107	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 10:42:35	DataFile Name :	025SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	0.00	0.00	0.00	0.00	56.87	ppb
Vanadium	51-2	0.00	0.00	0.00	0.00	391.85	ppb
Yttrium	89-1				106		%
Yttrium	89-2				106		%
Zinc	66-2	-0.17	-0.19	-0.45	-0.27		ppb
Zirconium	90-1	-0.01	0.00	0.00	0.00		ppb
Zirconium	91-1	-0.01	0.00	0.01	0.00	503.71	ppb

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	PB165107BS	Instrumnet Name :	P7
Client Sample ID :	LCS107	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 10:45:50	DataFile Name :	026SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	38.80	39.45	38.50	38.91	1.25	ppb
Antimony	121-1	4.34	4.37	4.24	4.32	1.62	ppb
Arsenic	75-2	2.37	2.04	2.18	2.20	7.39	ppb
Barium	135-1	20.69	21.00	20.88	20.85	0.73	ppb
Barium	137-1	21.17	21.50	21.15	21.27	0.91	ppb
Beryllium	9-1	2.10	1.99	2.00	2.03	2.95	ppb
Bismuth	209-1				107		%
Bismuth	209-2				107		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	2.29	1.92	2.07	2.10	8.82	ppb
Cadmium	106-1	1.37	1.30	1.38	1.35	3.17	ppb
Cadmium	111-1	2.11	2.19	2.10	2.13	2.29	ppb
Calcium	43-1	997.45	1027.69	1048.34	1024.50	2.50	ppb
Calcium	44-1	1003.67	1030.04	1014.62	1016.11	1.30	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	4.41	4.36	4.41	4.39	0.67	ppb
Cobalt	59-2	2.26	2.18	2.21	2.22	1.97	ppb
Copper	63-2	4.62	4.64	4.57	4.61	0.72	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				107		%
Holmium	165-2				107		%
Indium	115-1				106		%
Indium	115-2				106		%
Iron	56-2	452.83	449.53	448.91	450.42	0.47	ppb
Iron	57-2	451.05	451.98	442.10	448.38	1.22	ppb
Iron	54-2	452.13	448.37	448.44	449.65	0.48	ppb
Krypton	83-1						cps

Reviewed By:Mohan
On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	PB165107BS	Instrumnet Name :	P7
Client Sample ID :	LCS107	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 10:45:50	DataFile Name :	026SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	2.15	2.15	2.10	2.13	1.39	ppb
Lead	207-1	2.13	2.12	2.12	2.12	0.41	ppb
Lead	208-1	2.11	2.13	2.11	2.12	0.41	ppb
Lithium	6-1				96		%
Magnesium	24-2	994.70	979.78	982.84	985.77	0.80	ppb
Manganese	55-2	2.10	2.16	2.05	2.10	2.70	ppb
Molybdenum	94-1	12.32	12.04	12.25	12.20	1.16	ppb
Molybdenum	95-1	10.27	10.12	10.10	10.16	0.92	ppb
Molybdenum	96-1	10.51	10.39	10.34	10.41	0.79	ppb
Molybdenum	97-1	10.39	10.31	10.24	10.31	0.69	ppb
Molybdenum	98-1	10.40	10.27	10.16	10.28	1.17	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	2.23	2.18	2.19	2.20	1.12	ppb
Phosphorus	31-2	-16.51	-19.06	-18.84	-18.14		ppb
Potassium	39-2	1083.01	1065.91	1057.76	1068.89	1.21	ppb
Rhodium	103-1				107		%
Rhodium	103-2				106		%
Scandium	45-1				104		%
Scandium	45-2				104		%
Selenium	82-1	10.45	10.77	10.37	10.53	2.03	ppb
Selenium	77-2	9.62	10.54	12.43	10.86	13.17	ppb
Selenium	78-2	11.71	10.05	11.01	10.92	7.64	ppb
Silicon	28-1	2.36	2.41	2.82	2.53	10.03	ppb
Silver	107-1	2.22	2.22	2.20	2.21	0.64	ppb
Silver	109-1	2.21	2.24	2.23	2.22	0.73	ppb
Sodium	23-2	1072.17	1079.82	1059.23	1070.41	0.97	ppb
Strontium	86-1	53.08	51.50	52.35	52.31	1.51	ppb
Strontium	88-1	52.81	51.86	52.52	52.40	0.93	ppb
Sulfur	34-1	-333.02	-390.41	-338.71	-354.04		ppb
Terbium	159-1				106		%
Terbium	159-2				106		%
Thallium	203-1	2.11	2.04	2.12	2.09	2.18	ppb
Thallium	205-1	2.08	2.06	2.07	2.07	0.51	ppb
Tin	118-1	0.01	0.02	0.01	0.01	51.46	ppb
Titanium	47-1	10.16	10.38	10.42	10.32	1.39	ppb

Reviewed By:Mohan
On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	PB165107BS	Instrumnet Name :	P7
Client Sample ID :	LCS107	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 10:45:50	DataFile Name :	026SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	1.95	1.90	1.93	1.93	1.27	ppb
Vanadium	51-2	10.63	10.44	10.64	10.57	1.05	ppb
Yttrium	89-1				106		%
Yttrium	89-2				107		%
Zinc	66-2	10.71	10.48	10.09	10.43	3.01	ppb
Zirconium	90-1	2.13	2.09	2.10	2.11	1.02	ppb
Zirconium	91-1	2.12	2.13	2.13	2.13	0.32	ppb

Reviewed By:Mohan
On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4728-16	Instrumnet Name :	P7
Client Sample ID :	MBH9G9	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 10:49:04	DataFile Name :	027SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	0.77	0.70	1.30	0.93	35.55	ppb
Antimony	121-1	0.00	0.00	0.00	0.00	28.35	ppb
Arsenic	75-2	0.00	-0.01	0.02	0.00	423.58	ppb
Barium	135-1	-0.01	-0.01	0.00	-0.01		ppb
Barium	137-1	0.00	-0.01	-0.01	-0.01		ppb
Beryllium	9-1	0.00	0.01	0.03	0.01	119.10	ppb
Bismuth	209-1				118		%
Bismuth	209-2				113		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	0.00	0.00	0.02	0.01	215.46	ppb
Cadmium	106-1	-0.18	-0.83	-1.42	-0.81		ppb
Cadmium	111-1	-0.01	-0.06	-0.10	-0.06		ppb
Calcium	43-1	-79.63	-79.38	-81.59	-80.20		ppb
Calcium	44-1	-85.61	-84.56	-84.19	-84.79		ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	-0.27	-0.29	-0.28	-0.28		ppb
Cobalt	59-2	-0.01	-0.01	-0.01	-0.01		ppb
Copper	63-2	0.00	0.00	0.00	0.00	324.23	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				117		%
Holmium	165-2				112		%
Indium	115-1				116		%
Indium	115-2				112		%
Iron	56-2	2.33	2.38	2.36	2.36	1.05	ppb
Iron	57-2	1.67	2.06	1.83	1.85	10.44	ppb
Iron	54-2	0.29	0.59	0.39	0.42	36.10	ppb
Krypton	83-1						cps

Reviewed By:Mohan
On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4728-16	Instrumnet Name :	P7
Client Sample ID :	MBH9G9	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 10:49:04	DataFile Name :	027SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	-0.06	-0.07	-0.06	-0.06		ppb
Lead	207-1	-0.07	-0.06	-0.06	-0.06		ppb
Lead	208-1	-0.06	-0.06	-0.06	-0.06		ppb
Lithium	6-1				106		%
Magnesium	24-2	-0.47	-0.60	-0.66	-0.58		ppb
Manganese	55-2	-0.76	-0.74	-0.81	-0.77		ppb
Molybdenum	94-1	-0.03	-0.02	-0.03	-0.03		ppb
Molybdenum	95-1	0.00	0.00	0.00	0.00	28.22	ppb
Molybdenum	96-1	0.00	-0.01	0.00	0.00		ppb
Molybdenum	97-1	0.00	0.00	0.00	0.00	145.74	ppb
Molybdenum	98-1	0.00	0.00	0.00	0.00	213.45	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	-0.04	-0.09	-0.06	-0.06		ppb
Phosphorus	31-2	-23.11	-21.60	-18.05	-20.92		ppb
Potassium	39-2	1.50	0.73	0.53	0.92	55.92	ppb
Rhodium	103-1				117		%
Rhodium	103-2				113		%
Scandium	45-1				114		%
Scandium	45-2				110		%
Selenium	82-1	0.48	-0.02	0.14	0.20	127.28	ppb
Selenium	77-2	0.17	0.00	0.00	0.06	173.21	ppb
Selenium	78-2	0.65	-0.23	0.13	0.19	238.17	ppb
Silicon	28-1	-5.26	-4.70	-4.65	-4.87		ppb
Silver	107-1	0.01	0.00	0.00	0.00	21.30	ppb
Silver	109-1	0.01	0.00	0.00	0.00	22.47	ppb
Sodium	23-2	-19.43	-18.83	-20.29	-19.52		ppb
Strontium	86-1	-0.14	-0.10	-0.50	-0.25		ppb
Strontium	88-1	-0.08	-0.04	-0.04	-0.06		ppb
Sulfur	34-1	-645.47	-554.89	-550.22	-583.53		ppb
Terbium	159-1				116		%
Terbium	159-2				112		%
Thallium	203-1	0.01	0.00	0.00	0.00	44.28	ppb
Thallium	205-1	0.01	0.01	0.01	0.01	11.11	ppb
Tin	118-1	-0.22	-0.22	-0.21	-0.22		ppb
Titanium	47-1	0.06	0.07	0.04	0.06	32.00	ppb

Reviewed By:Mohan
On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4728-16	Instrumnet Name :	P7
Client Sample ID :	MBH9G9	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 10:49:04	DataFile Name :	027SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	0.00	0.00	0.00	0.00	648.93	ppb
Vanadium	51-2	0.00	0.00	0.01	0.00	28.08	ppb
Yttrium	89-1				117		%
Yttrium	89-2				112		%
Zinc	66-2	-6.30	-6.37	-6.37	-6.34		ppb
Zirconium	90-1	-0.02	-0.02	-0.02	-0.02		ppb
Zirconium	91-1	-0.01	-0.02	-0.01	-0.01		ppb

Reviewed By:Mohan
On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4750-22	Instrumnet Name :	P7
Client Sample ID :	MBH9H0	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 10:52:19	DataFile Name :	028SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	1.48	1.62	1.42	1.51	6.74	ppb
Antimony	121-1	0.01	0.00	0.01	0.00	31.01	ppb
Arsenic	75-2	0.00	0.00	0.00	0.00	107.73	ppb
Barium	135-1	0.02	0.02	0.04	0.03	41.68	ppb
Barium	137-1	0.02	0.03	0.03	0.03	18.92	ppb
Beryllium	9-1	0.00	0.00	-0.01	0.00		ppb
Bismuth	209-1				115		%
Bismuth	209-2				111		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	-0.02	0.03	0.00	0.00	749.53	ppb
Cadmium	106-1	-0.79	-0.76	-0.91	-0.82		ppb
Cadmium	111-1	-0.05	-0.06	-0.06	-0.06		ppb
Calcium	43-1	-59.54	-58.47	-58.57	-58.86		ppb
Calcium	44-1	-65.04	-62.91	-63.48	-63.81		ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	-0.23	-0.22	-0.18	-0.21		ppb
Cobalt	59-2	-0.01	0.00	-0.01	-0.01		ppb
Copper	63-2	0.04	0.04	0.05	0.04	18.64	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				115		%
Holmium	165-2				110		%
Indium	115-1				113		%
Indium	115-2				111		%
Iron	56-2	3.20	3.56	3.57	3.44	6.02	ppb
Iron	57-2	3.18	3.29	4.13	3.53	14.79	ppb
Iron	54-2	2.55	1.03	2.08	1.89	41.41	ppb
Krypton	83-1						cps

Reviewed By:Mohan
On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4750-22	Instrumnet Name :	P7
Client Sample ID :	MBH9H0	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 10:52:19	DataFile Name :	028SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	-0.01	0.00	0.00	0.00		ppb
Lead	207-1	0.00	-0.01	0.00	0.00		ppb
Lead	208-1	-0.01	0.00	0.00	0.00		ppb
Lithium	6-1				105		%
Magnesium	24-2	1.92	2.28	2.21	2.14	8.84	ppb
Manganese	55-2	0.13	0.12	0.20	0.15	28.40	ppb
Molybdenum	94-1	0.05	0.05	0.05	0.05	6.36	ppb
Molybdenum	95-1	0.10	0.10	0.10	0.10	3.53	ppb
Molybdenum	96-1	0.09	0.09	0.10	0.09	5.00	ppb
Molybdenum	97-1	0.10	0.12	0.09	0.10	12.33	ppb
Molybdenum	98-1	0.10	0.10	0.10	0.10	2.82	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	-0.07	-0.06	-0.05	-0.06		ppb
Phosphorus	31-2	-21.71	-20.55	-19.63	-20.63		ppb
Potassium	39-2	14.80	15.91	16.45	15.72	5.35	ppb
Rhodium	103-1				113		%
Rhodium	103-2				111		%
Scandium	45-1				112		%
Scandium	45-2				108		%
Selenium	82-1	0.17	-0.14	0.05	0.03	589.03	ppb
Selenium	77-2	0.00	0.00	0.00	0.00	N/A	ppb
Selenium	78-2	1.15	-0.26	0.92	0.61	125.16	ppb
Silicon	28-1	-2.69	-4.15	-4.27	-3.71		ppb
Silver	107-1	0.00	0.00	0.00	0.00	9.89	ppb
Silver	109-1	0.00	0.00	0.00	0.00	25.95	ppb
Sodium	23-2	32.99	34.18	35.52	34.23	3.70	ppb
Strontium	86-1	0.17	-0.16	-0.04	-0.01		ppb
Strontium	88-1	0.04	0.09	0.10	0.08	37.93	ppb
Sulfur	34-1	-520.99	-499.70	-456.83	-492.51		ppb
Terbium	159-1				112		%
Terbium	159-2				110		%
Thallium	203-1	0.00	0.00	0.00	0.00	111.47	ppb
Thallium	205-1	0.00	0.00	0.00	0.00	29.64	ppb
Tin	118-1	-0.17	-0.17	-0.17	-0.17		ppb
Titanium	47-1	0.08	0.13	0.09	0.10	22.45	ppb

Reviewed By:Mohan
On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4750-22	Instrumnet Name :	P7
Client Sample ID :	MBH9H0	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 10:52:19	DataFile Name :	028SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	0.00	0.00	0.00	0.00		ppb
Vanadium	51-2	0.02	0.01	0.01	0.01	25.62	ppb
Yttrium	89-1				113		%
Yttrium	89-2				111		%
Zinc	66-2	-5.91	-5.81	-5.81	-5.84		ppb
Zirconium	90-1	-0.02	-0.02	-0.02	-0.02		ppb
Zirconium	91-1	-0.02	-0.02	-0.02	-0.02		ppb

Reviewed By:Mohan
On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4806-04A	Instrumnet Name :	P7
Client Sample ID :	MH2GT9A	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 10:55:35	DataFile Name :	029SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	5582.49	5660.01	5777.28	5673.26	1.73	ppb
Antimony	121-1	5.87	5.88	5.94	5.90	0.58	ppb
Arsenic	75-2	10.79	10.86	10.46	10.70	1.97	ppb
Barium	135-1	284.68	288.86	282.13	285.22	1.19	ppb
Barium	137-1	282.58	286.51	287.45	285.51	0.91	ppb
Beryllium	9-1	0.35	0.35	0.40	0.37	7.96	ppb
Bismuth	209-1				110		%
Bismuth	209-2				106		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	14.23	14.71	14.38	14.44	1.71	ppb
Cadmium	106-1	13.76	13.87	13.20	13.61	2.64	ppb
Cadmium	111-1	13.85	13.97	14.13	13.98	1.02	ppb
Calcium	43-1	86174.83	86911.70	86542.31	86542.94	0.43	ppb
Calcium	44-1	85445.45	86343.92	87500.14	86429.84	1.19	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	22.43	22.37	22.69	22.50	0.76	ppb
Cobalt	59-2	4.47	4.49	4.59	4.52	1.39	ppb
Copper	63-2	5209.14	5214.73	5310.82	5244.90	1.09	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				111		%
Holmium	165-2				108		%
Indium	115-1				107		%
Indium	115-2				105		%
Iron	56-2	9393.87	9318.32	9557.32	9423.17	1.30	ppb
Iron	57-2	9708.43	9649.24	10016.10	9791.26	2.01	ppb
Iron	54-2	9164.52	9259.78	9420.91	9281.74	1.40	ppb
Krypton	83-1						cps

Reviewed By:Mohan
On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4806-04A	Instrumnet Name :	P7
Client Sample ID :	MH2GT9A	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 10:55:35	DataFile Name :	029SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	1286.91	1278.61	1291.25	1285.59	0.50	ppb
Lead	207-1	1241.05	1241.66	1240.52	1241.08	0.05	ppb
Lead	208-1	1256.85	1254.84	1255.03	1255.57	0.09	ppb
Lithium	6-1				100		%
Magnesium	24-2	6268.66	6229.31	6414.60	6304.19	1.55	ppb
Manganese	55-2	894.87	913.78	932.28	913.64	2.05	ppb
Molybdenum	94-1	14.18	13.97	14.19	14.11	0.89	ppb
Molybdenum	95-1	7.14	7.06	7.14	7.11	0.65	ppb
Molybdenum	96-1	7.85	7.85	7.78	7.82	0.50	ppb
Molybdenum	97-1	7.14	7.02	7.20	7.12	1.25	ppb
Molybdenum	98-1	7.11	7.10	7.21	7.14	0.86	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	32.10	32.02	32.74	32.28	1.22	ppb
Phosphorus	31-2	1855.66	1856.78	1887.45	1866.63	0.97	ppb
Potassium	39-2	3599.94	3572.28	3677.85	3616.69	1.51	ppb
Rhodium	103-1				104		%
Rhodium	103-2				105		%
Scandium	45-1				105		%
Scandium	45-2				101		%
Selenium	82-1	5.36	5.13	5.14	5.21	2.55	ppb
Selenium	77-2	12.16	12.28	11.90	12.12	1.60	ppb
Selenium	78-2	6.82	7.87	6.99	7.23	7.79	ppb
Silicon	28-1	1172.05	1198.49	1204.35	1191.63	1.44	ppb
Silver	107-1	2.47	2.54	2.55	2.52	1.65	ppb
Silver	109-1	2.53	2.52	2.55	2.53	0.56	ppb
Sodium	23-2	23986.53	24192.08	24632.13	24270.25	1.36	ppb
Strontium	86-1	13900.51	13723.72	13763.30	13795.84	0.67	ppb
Strontium	88-1	13801.44	13831.88	13857.59	13830.30	0.20	ppb
Sulfur	34-1	34699.36	35323.02	35168.98	35063.79	0.93	ppb
Terbium	159-1				110		%
Terbium	159-2				107		%
Thallium	203-1	0.16	0.16	0.16	0.16	1.78	ppb
Thallium	205-1	0.16	0.16	0.16	0.16	0.56	ppb
Tin	118-1	44.22	44.18	44.15	44.19	0.08	ppb
Titanium	47-1	148.34	149.07	151.39	149.60	1.07	ppb

Reviewed By:Mohan
On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4806-04A	Instrumnet Name :	P7
Client Sample ID :	MH2GT9A	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 10:55:35	DataFile Name :	029SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	2.45	2.46	2.48	2.46	0.49	ppb
Vanadium	51-2	31.95	31.95	32.58	32.16	1.13	ppb
Yttrium	89-1				110		%
Yttrium	89-2				107		%
Zinc	66-2	4255.58	4359.59	4446.16	4353.78	2.19	ppb
Zirconium	90-1	4.68	4.63	4.73	4.68	1.15	ppb
Zirconium	91-1	4.69	4.57	4.70	4.65	1.63	ppb

Reviewed By:Mohan
On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4831-01	Instrumnet Name :	P7
Client Sample ID :	E29S4	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 10:58:29	DataFile Name :	030SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	5.73	5.91	6.26	5.97	4.54	ppb
Antimony	121-1	0.21	0.22	0.22	0.22	3.10	ppb
Arsenic	75-2	2.96	3.06	2.96	2.99	1.97	ppb
Barium	135-1	68.39	69.51	68.35	68.75	0.96	ppb
Barium	137-1	68.60	69.83	69.33	69.25	0.90	ppb
Beryllium	9-1	0.01	0.01	0.01	0.01	20.61	ppb
Bismuth	209-1				104		%
Bismuth	209-2				102		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	0.09	0.06	0.09	0.08	22.77	ppb
Cadmium	106-1	-0.47	-1.18	-1.79	-1.15		ppb
Cadmium	111-1	0.00	-0.05	-0.09	-0.05		ppb
Calcium	43-1	102206.67	100888.27	103233.77	102109.57	1.15	ppb
Calcium	44-1	101262.38	100706.63	102332.91	101433.98	0.81	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.16	0.13	0.15	0.15	8.78	ppb
Cobalt	59-2	0.11	0.11	0.12	0.12	5.42	ppb
Copper	63-2	0.86	0.84	0.78	0.83	5.00	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				107		%
Holmium	165-2				107		%
Indium	115-1				103		%
Indium	115-2				104		%
Iron	56-2	7.85	7.70	7.48	7.68	2.45	ppb
Iron	57-2	478.13	491.82	488.04	486.00	1.45	ppb
Iron	54-2	7.44	7.86	6.61	7.30	8.68	ppb
Krypton	83-1						cps

Reviewed By:Mohan
On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4831-01	Instrumnet Name :	P7
Client Sample ID :	E29S4	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 10:58:29	DataFile Name :	030SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	0.23	0.15	0.11	0.16	37.18	ppb
Lead	207-1	0.21	0.14	0.09	0.15	42.12	ppb
Lead	208-1	0.22	0.14	0.09	0.15	41.64	ppb
Lithium	6-1				95		%
Magnesium	24-2	31469.70	31332.31	31274.02	31358.68	0.32	ppb
Manganese	55-2	1.67	1.69	1.67	1.68	0.59	ppb
Molybdenum	94-1	4.29	4.47	4.39	4.38	2.07	ppb
Molybdenum	95-1	5.25	5.39	5.41	5.35	1.62	ppb
Molybdenum	96-1	5.12	5.26	5.21	5.20	1.37	ppb
Molybdenum	97-1	5.26	5.33	5.38	5.32	1.11	ppb
Molybdenum	98-1	5.34	5.41	5.43	5.39	0.79	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.59	0.59	0.62	0.60	2.92	ppb
Phosphorus	31-2	814.71	840.41	828.67	827.93	1.55	ppb
Potassium	39-2	5526.44	5461.35	5486.31	5491.37	0.60	ppb
Rhodium	103-1				100		%
Rhodium	103-2				102		%
Scandium	45-1				101		%
Scandium	45-2				102		%
Selenium	82-1	2.36	2.70	2.10	2.39	12.73	ppb
Selenium	77-2	2.70	2.07	2.27	2.35	13.60	ppb
Selenium	78-2	3.25	3.13	3.12	3.17	2.29	ppb
Silicon	28-1	1413.41	1412.32	1418.24	1414.66	0.22	ppb
Silver	107-1	0.01	0.01	0.01	0.01	5.66	ppb
Silver	109-1	0.01	0.01	0.00	0.01	20.38	ppb
Sodium	23-2	80963.23	83111.62	82536.11	82203.65	1.35	ppb
Strontium	86-1	5396.72	5434.40	5432.38	5421.17	0.39	ppb
Strontium	88-1	5291.00	5416.34	5442.51	5383.28	1.50	ppb
Sulfur	34-1	13328.31	12919.21	13001.83	13083.12	1.65	ppb
Terbium	159-1				106		%
Terbium	159-2				105		%
Thallium	203-1	0.06	0.05	0.05	0.05	5.56	ppb
Thallium	205-1	0.06	0.06	0.05	0.06	8.46	ppb
Tin	118-1	-0.10	-0.08	-0.10	-0.09		ppb
Titanium	47-1	0.57	0.55	0.53	0.55	3.33	ppb

Reviewed By:Mohan
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Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4831-01	Instrumnet Name :	P7
Client Sample ID :	E29S4	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 10:58:29	DataFile Name :	030SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	0.76	0.78	0.77	0.77	1.45	ppb
Vanadium	51-2	0.72	0.69	0.72	0.71	2.61	ppb
Yttrium	89-1				104		%
Yttrium	89-2				105		%
Zinc	66-2	-2.30	-2.49	-2.30	-2.36		ppb
Zirconium	90-1	0.02	0.03	0.03	0.03	17.69	ppb
Zirconium	91-1	0.03	0.03	0.02	0.03	15.92	ppb

Reviewed By:Mohan
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Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4831-02	Instrumnet Name :	P7
Client Sample ID :	E29S4D	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 11:01:41	DataFile Name :	031SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	6.34	6.98	6.24	6.52	6.20	ppb
Antimony	121-1	0.23	0.22	0.23	0.23	1.65	ppb
Arsenic	75-2	3.13	3.07	2.91	3.04	3.74	ppb
Barium	135-1	71.17	71.01	71.15	71.11	0.12	ppb
Barium	137-1	72.15	70.77	72.27	71.73	1.16	ppb
Beryllium	9-1	0.02	0.02	0.00	0.01	75.65	ppb
Bismuth	209-1				103		%
Bismuth	209-2				101		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	0.12	0.09	0.05	0.09	37.84	ppb
Cadmium	106-1	-0.75	-1.44	-1.49	-1.22		ppb
Cadmium	111-1	-0.03	-0.08	-0.07	-0.06		ppb
Calcium	43-1	107895.74	102807.11	102660.29	104454.38	2.85	ppb
Calcium	44-1	106933.99	102685.14	103173.75	104264.29	2.23	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.36	0.35	0.34	0.35	2.47	ppb
Cobalt	59-2	0.12	0.12	0.12	0.12	2.13	ppb
Copper	63-2	0.84	0.86	0.81	0.84	2.91	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				107		%
Holmium	165-2				104		%
Indium	115-1				104		%
Indium	115-2				102		%
Iron	56-2	8.19	10.03	7.45	8.56	15.49	ppb
Iron	57-2	504.71	506.55	486.70	499.32	2.20	ppb
Iron	54-2	7.96	7.95	6.43	7.45	11.83	ppb
Krypton	83-1						cps

Reviewed By:Mohan
On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4831-02	Instrumnet Name :	P7
Client Sample ID :	E29S4D	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 11:01:41	DataFile Name :	031SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	0.06	0.05	0.04	0.05	15.08	ppb
Lead	207-1	0.04	0.05	0.05	0.05	9.90	ppb
Lead	208-1	0.05	0.05	0.05	0.05	1.41	ppb
Lithium	6-1				94		%
Magnesium	24-2	33200.08	32623.23	31157.86	32327.06	3.26	ppb
Manganese	55-2	46.45	45.99	44.05	45.49	2.80	ppb
Molybdenum	94-1	4.56	4.47	4.63	4.55	1.75	ppb
Molybdenum	95-1	5.54	5.52	5.51	5.52	0.31	ppb
Molybdenum	96-1	5.35	5.28	5.40	5.34	1.18	ppb
Molybdenum	97-1	5.62	5.42	5.48	5.51	1.88	ppb
Molybdenum	98-1	5.65	5.49	5.55	5.57	1.44	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.75	0.70	0.71	0.72	3.69	ppb
Phosphorus	31-2	875.81	872.79	835.88	861.50	2.58	ppb
Potassium	39-2	5867.64	5739.79	5510.46	5705.96	3.17	ppb
Rhodium	103-1				101		%
Rhodium	103-2				100		%
Scandium	45-1				103		%
Scandium	45-2				101		%
Selenium	82-1	2.63	2.48	2.61	2.57	3.27	ppb
Selenium	77-2	2.45	2.93	2.24	2.54	14.01	ppb
Selenium	78-2	3.47	4.26	3.21	3.65	15.02	ppb
Silicon	28-1	1486.66	1433.78	1424.30	1448.24	2.32	ppb
Silver	107-1	0.00	0.00	0.00	0.00	14.46	ppb
Silver	109-1	0.00	0.00	0.00	0.00	44.61	ppb
Sodium	23-2	86900.08	86165.48	84249.39	85771.65	1.60	ppb
Strontium	86-1	5610.17	5541.07	5517.75	5556.33	0.87	ppb
Strontium	88-1	5654.94	5503.06	5532.01	5563.34	1.45	ppb
Sulfur	34-1	14142.10	13310.62	13413.39	13622.03	3.33	ppb
Terbium	159-1				106		%
Terbium	159-2				103		%
Thallium	203-1	0.05	0.05	0.05	0.05	1.95	ppb
Thallium	205-1	0.05	0.05	0.05	0.05	4.49	ppb
Tin	118-1	0.08	0.08	0.11	0.09	16.62	ppb
Titanium	47-1	0.61	0.55	0.52	0.56	8.46	ppb

Reviewed By:Mohan
On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4831-02	Instrumnet Name :	P7
Client Sample ID :	E29S4D	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 11:01:41	DataFile Name :	031SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	0.80	0.77	0.79	0.79	1.93	ppb
Vanadium	51-2	0.72	0.72	0.69	0.71	2.25	ppb
Yttrium	89-1				105		%
Yttrium	89-2				103		%
Zinc	66-2	-1.61	-1.74	-2.22	-1.86		ppb
Zirconium	90-1	0.02	0.03	0.02	0.02	18.98	ppb
Zirconium	91-1	0.02	0.01	0.04	0.02	51.84	ppb

Reviewed By:Mohan
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Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4831-01LX5	Instrumnet Name :	P7
Client Sample ID :	E29S4L	Dilution Factor :	5
Date & Time Acquired :	2024-11-20 11:04:50	DataFile Name :	032SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	1.03	1.05	1.07	1.05	1.75	ppb
Antimony	121-1	0.04	0.04	0.04	0.04	3.94	ppb
Arsenic	75-2	0.51	0.54	0.58	0.54	6.67	ppb
Barium	135-1	12.84	13.13	13.12	13.03	1.27	ppb
Barium	137-1	13.17	13.43	13.28	13.29	0.97	ppb
Beryllium	9-1	0.02	0.00	0.01	0.01	104.73	ppb
Bismuth	209-1				106		%
Bismuth	209-2				106		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	0.00	0.07	0.06	0.04	82.26	ppb
Cadmium	106-1	-0.51	-1.02	-1.66	-1.06		ppb
Cadmium	111-1	-0.03	-0.07	-0.12	-0.07		ppb
Calcium	43-1	19026.95	19238.51	19530.97	19265.48	1.31	ppb
Calcium	44-1	18737.33	19181.89	19371.59	19096.94	1.70	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.02	0.05	0.03	0.03	43.85	ppb
Cobalt	59-2	0.01	0.01	0.01	0.01	24.39	ppb
Copper	63-2	0.16	0.16	0.16	0.16	1.74	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				107		%
Holmium	165-2				107		%
Indium	115-1				103		%
Indium	115-2				106		%
Iron	56-2	1.75	1.56	1.69	1.67	5.68	ppb
Iron	57-2	87.46	85.80	90.01	87.76	2.41	ppb
Iron	54-2	1.42	1.80	1.35	1.53	15.61	ppb
Krypton	83-1						cps

Reviewed By:Mohan
On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4831-01LX5	Instrumnet Name :	P7
Client Sample ID :	E29S4L	Dilution Factor :	5
Date & Time Acquired :	2024-11-20 11:04:50	DataFile Name :	032SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	0.01	0.01	0.00	0.01	180.21	ppb
Lead	207-1	0.01	0.00	0.00	0.00	197.60	ppb
Lead	208-1	0.01	0.01	0.00	0.00	155.23	ppb
Lithium	6-1				97		%
Magnesium	24-2	5823.40	5788.30	5846.22	5819.31	0.50	ppb
Manganese	55-2	0.39	0.41	0.42	0.41	3.02	ppb
Molybdenum	94-1	0.83	0.82	0.84	0.83	0.91	ppb
Molybdenum	95-1	0.99	0.99	0.98	0.98	0.72	ppb
Molybdenum	96-1	0.97	0.97	0.97	0.97	0.11	ppb
Molybdenum	97-1	0.98	0.98	1.01	0.99	2.14	ppb
Molybdenum	98-1	1.00	1.02	1.00	1.01	0.87	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.09	0.08	0.09	0.09	5.26	ppb
Phosphorus	31-2	136.62	135.76	148.30	140.23	4.99	ppb
Potassium	39-2	1044.18	1025.82	1050.82	1040.27	1.24	ppb
Rhodium	103-1				103		%
Rhodium	103-2				105		%
Scandium	45-1				101		%
Scandium	45-2				103		%
Selenium	82-1	0.62	0.37	0.26	0.42	44.98	ppb
Selenium	77-2	0.80	0.36	0.45	0.54	43.72	ppb
Selenium	78-2	0.38	1.08	1.22	0.89	50.21	ppb
Silicon	28-1	263.35	270.65	268.89	267.63	1.42	ppb
Silver	107-1	0.00	0.00	0.00	0.00	74.90	ppb
Silver	109-1	0.00	0.00	0.00	0.00	59.20	ppb
Sodium	23-2	15614.95	15285.72	15568.79	15489.82	1.15	ppb
Strontium	86-1	990.21	993.23	983.00	988.81	0.53	ppb
Strontium	88-1	1021.79	1028.23	1017.06	1022.36	0.55	ppb
Sulfur	34-1	1792.48	1834.37	1862.65	1829.83	1.93	ppb
Terbium	159-1				105		%
Terbium	159-2				105		%
Thallium	203-1	0.01	0.02	0.01	0.01	10.64	ppb
Thallium	205-1	0.01	0.02	0.02	0.02	12.89	ppb
Tin	118-1	0.00	-0.03	-0.01	-0.01		ppb
Titanium	47-1	0.11	0.11	0.14	0.12	15.69	ppb

Reviewed By:Mohan
On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4831-01LX5	Instrumnet Name :	P7
Client Sample ID :	E29S4L	Dilution Factor :	5
Date & Time Acquired :	2024-11-20 11:04:50	DataFile Name :	032SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	0.14	0.14	0.14	0.14	1.60	ppb
Vanadium	51-2	0.13	0.13	0.14	0.13	4.96	ppb
Yttrium	89-1				104		%
Yttrium	89-2				106		%
Zinc	66-2	-0.26	-0.51	-0.19	-0.32		ppb
Zirconium	90-1	0.00	0.00	0.00	0.00		ppb
Zirconium	91-1	0.00	0.00	0.00	0.00		ppb

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Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4831-04	Instrumnet Name :	P7
Client Sample ID :	E29T2	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 11:10:53	DataFile Name :	034SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	33.33	34.58	34.94	34.28	2.46	ppb
Antimony	121-1	0.11	0.10	0.10	0.10	7.73	ppb
Arsenic	75-2	0.37	0.44	0.46	0.42	11.58	ppb
Barium	135-1	118.29	121.14	120.16	119.86	1.21	ppb
Barium	137-1	119.59	122.63	120.93	121.05	1.26	ppb
Beryllium	9-1	0.03	0.02	0.03	0.02	24.95	ppb
Bismuth	209-1				112		%
Bismuth	209-2				107		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	0.04	0.05	0.07	0.05	33.35	ppb
Cadmium	106-1	-0.58	-0.72	-1.18	-0.83		ppb
Cadmium	111-1	0.00	-0.01	-0.05	-0.02		ppb
Calcium	43-1	96345.39	98703.97	99041.68	98030.35	1.50	ppb
Calcium	44-1	97462.28	98525.00	98707.64	98231.64	0.68	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.05	0.03	0.05	0.04	21.11	ppb
Cobalt	59-2	2.08	2.15	2.12	2.12	1.66	ppb
Copper	63-2	0.75	0.78	0.78	0.77	2.15	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				114		%
Holmium	165-2				110		%
Indium	115-1				109		%
Indium	115-2				106		%
Iron	56-2	130.29	132.99	129.39	130.89	1.43	ppb
Iron	57-2	572.75	594.45	587.32	584.84	1.89	ppb
Iron	54-2	130.09	133.29	127.84	130.41	2.10	ppb
Krypton	83-1						cps

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Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4831-04	Instrumnet Name :	P7
Client Sample ID :	E29T2	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 11:10:53	DataFile Name :	034SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	0.19	0.17	0.17	0.18	6.10	ppb
Lead	207-1	0.16	0.17	0.16	0.16	3.34	ppb
Lead	208-1	0.17	0.17	0.16	0.17	2.82	ppb
Lithium	6-1				99		%
Magnesium	24-2	29766.38	29859.68	29466.96	29697.68	0.69	ppb
Manganese	55-2	744.71	767.19	744.43	752.11	1.74	ppb
Molybdenum	94-1	3.40	3.42	3.39	3.40	0.46	ppb
Molybdenum	95-1	4.04	4.08	4.07	4.06	0.54	ppb
Molybdenum	96-1	3.85	3.96	3.94	3.92	1.55	ppb
Molybdenum	97-1	3.98	4.09	4.11	4.06	1.72	ppb
Molybdenum	98-1	4.04	4.05	4.16	4.08	1.60	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	3.13	3.26	3.22	3.20	2.13	ppb
Phosphorus	31-2	-7.38	-4.62	-8.55	-6.85		ppb
Potassium	39-2	6644.53	6885.05	6725.76	6751.78	1.81	ppb
Rhodium	103-1				106		%
Rhodium	103-2				105		%
Scandium	45-1				106		%
Scandium	45-2				104		%
Selenium	82-1	0.58	0.86	0.28	0.57	50.68	ppb
Selenium	77-2	0.53	0.43	0.18	0.38	47.64	ppb
Selenium	78-2	-0.06	0.49	1.06	0.50	111.89	ppb
Silicon	28-1	1304.69	1325.68	1317.29	1315.88	0.80	ppb
Silver	107-1	0.03	0.02	0.02	0.02	19.64	ppb
Silver	109-1	0.03	0.02	0.02	0.03	15.79	ppb
Sodium	23-2	49024.77	49607.52	48496.35	49042.88	1.13	ppb
Strontium	86-1	3333.72	3351.07	3386.77	3357.19	0.81	ppb
Strontium	88-1	3429.35	3446.68	3477.66	3451.23	0.71	ppb
Sulfur	34-1	12524.20	12721.81	12739.27	12661.76	0.94	ppb
Terbium	159-1				112		%
Terbium	159-2				108		%
Thallium	203-1	0.11	0.11	0.10	0.11	3.51	ppb
Thallium	205-1	0.11	0.11	0.10	0.10	4.12	ppb
Tin	118-1	-0.03	-0.03	-0.04	-0.03		ppb
Titanium	47-1	1.06	1.17	1.05	1.09	5.95	ppb

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Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4831-04	Instrumnet Name :	P7
Client Sample ID :	E29T2	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 11:10:53	DataFile Name :	034SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	0.84	0.85	0.86	0.85	0.76	ppb
Vanadium	51-2	0.20	0.20	0.18	0.19	5.92	ppb
Yttrium	89-1				109		%
Yttrium	89-2				108		%
Zinc	66-2	-1.75	-1.97	-1.69	-1.80		ppb
Zirconium	90-1	0.04	0.04	0.04	0.04	7.69	ppb
Zirconium	91-1	0.04	0.05	0.05	0.05	16.58	ppb

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LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4831-05	Instrumnet Name :	P7
Client Sample ID :	E29T4	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 11:14:04	DataFile Name :	035SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	4.71	4.80	4.48	4.66	3.45	ppb
Antimony	121-1	0.02	0.02	0.02	0.02	15.47	ppb
Arsenic	75-2	2.93	3.25	2.94	3.04	5.96	ppb
Barium	135-1	109.28	110.73	108.23	109.41	1.15	ppb
Barium	137-1	110.76	112.05	110.32	111.04	0.81	ppb
Beryllium	9-1	0.02	0.02	0.03	0.02	28.37	ppb
Bismuth	209-1				109		%
Bismuth	209-2				105		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	0.02	0.05	0.01	0.03	72.15	ppb
Cadmium	106-1	-0.53	-1.05	-1.20	-0.92		ppb
Cadmium	111-1	-0.03	-0.07	-0.08	-0.06		ppb
Calcium	43-1	125173.07	126609.30	127822.32	126534.90	1.05	ppb
Calcium	44-1	124895.95	125154.33	127070.53	125706.93	0.95	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	-0.05	-0.06	-0.08	-0.06		ppb
Cobalt	59-2	0.30	0.29	0.29	0.29	1.28	ppb
Copper	63-2	0.19	0.21	0.20	0.20	4.55	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				112		%
Holmium	165-2				109		%
Indium	115-1				107		%
Indium	115-2				105		%
Iron	56-2	1853.36	1888.57	1841.13	1861.02	1.32	ppb
Iron	57-2	2408.19	2457.61	2423.64	2429.82	1.04	ppb
Iron	54-2	1849.65	1856.02	1827.63	1844.43	0.81	ppb
Krypton	83-1						cps

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Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4831-05	Instrumnet Name :	P7
Client Sample ID :	E29T4	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 11:14:04	DataFile Name :	035SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	0.24	0.22	0.21	0.22	6.85	ppb
Lead	207-1	0.23	0.21	0.20	0.21	8.21	ppb
Lead	208-1	0.22	0.21	0.21	0.21	2.87	ppb
Lithium	6-1				100		%
Magnesium	24-2	51365.85	52393.05	50946.13	51568.34	1.44	ppb
Manganese	55-2	104.71	104.22	103.29	104.07	0.70	ppb
Molybdenum	94-1	3.13	3.05	3.13	3.10	1.56	ppb
Molybdenum	95-1	3.23	3.27	3.29	3.26	0.87	ppb
Molybdenum	96-1	3.29	3.29	3.27	3.29	0.33	ppb
Molybdenum	97-1	3.30	3.28	3.26	3.28	0.71	ppb
Molybdenum	98-1	3.29	3.28	3.33	3.30	0.77	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	3.22	3.28	3.26	3.25	0.99	ppb
Phosphorus	31-2	-12.74	-11.10	-14.24	-12.69		ppb
Potassium	39-2	2656.83	2702.56	2639.02	2666.14	1.23	ppb
Rhodium	103-1				104		%
Rhodium	103-2				103		%
Scandium	45-1				105		%
Scandium	45-2				103		%
Selenium	82-1	0.35	0.46	0.21	0.34	36.71	ppb
Selenium	77-2	0.09	0.00	0.00	0.03	173.21	ppb
Selenium	78-2	-0.10	0.19	0.40	0.16	156.34	ppb
Silicon	28-1	1742.46	1728.77	1723.57	1731.60	0.56	ppb
Silver	107-1	0.01	0.01	0.01	0.01	23.79	ppb
Silver	109-1	0.01	0.01	0.01	0.01	1.20	ppb
Sodium	23-2	63278.36	64957.03	63537.53	63924.31	1.41	ppb
Strontium	86-1	3276.45	3260.02	3269.38	3268.62	0.25	ppb
Strontium	88-1	3368.97	3348.16	3394.23	3370.45	0.68	ppb
Sulfur	34-1	22419.20	22644.75	22341.14	22468.36	0.70	ppb
Terbium	159-1				111		%
Terbium	159-2				107		%
Thallium	203-1	0.03	0.03	0.03	0.03	8.20	ppb
Thallium	205-1	0.03	0.03	0.03	0.03	7.84	ppb
Tin	118-1	0.05	0.05	0.06	0.05	7.32	ppb
Titanium	47-1	0.39	0.40	0.37	0.39	3.82	ppb

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Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4831-05	Instrumnet Name :	P7
Client Sample ID :	E29T4	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 11:14:04	DataFile Name :	035SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	1.30	1.27	1.27	1.28	1.33	ppb
Vanadium	51-2	0.04	0.03	0.03	0.03	13.44	ppb
Yttrium	89-1				108		%
Yttrium	89-2				107		%
Zinc	66-2	-2.49	-2.31	-2.41	-2.40		ppb
Zirconium	90-1	0.24	0.22	0.23	0.23	2.63	ppb
Zirconium	91-1	0.24	0.24	0.25	0.24	3.61	ppb

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Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4831-06	Instrumnet Name :	P7
Client Sample ID :	E29W0	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 11:17:12	DataFile Name :	036SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	0.34	0.63	0.71	0.56	34.84	ppb
Antimony	121-1	0.00	0.01	0.00	0.00	94.28	ppb
Arsenic	75-2	0.00	0.00	0.00	0.00		ppb
Barium	135-1	0.02	0.23	0.00	0.08	150.92	ppb
Barium	137-1	0.03	0.10	0.00	0.04	118.42	ppb
Beryllium	9-1	0.01	0.01	0.00	0.00	176.83	ppb
Bismuth	209-1				114		%
Bismuth	209-2				108		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	0.01	0.01	0.02	0.01	54.22	ppb
Cadmium	106-1	-0.10	-0.89	-1.36	-0.78		ppb
Cadmium	111-1	0.00	-0.05	-0.10	-0.05		ppb
Calcium	43-1	5.49	-1.35	-14.70	-3.52		ppb
Calcium	44-1	1.21	-4.61	-13.34	-5.58		ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	-0.15	-0.14	-0.13	-0.14		ppb
Cobalt	59-2	-0.01	-0.01	-0.01	-0.01		ppb
Copper	63-2	0.14	0.12	0.13	0.13	10.18	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				112		%
Holmium	165-2				107		%
Indium	115-1				108		%
Indium	115-2				104		%
Iron	56-2	0.56	0.52	0.86	0.65	28.68	ppb
Iron	57-2	-0.02	0.06	0.60	0.21	158.55	ppb
Iron	54-2	-0.91	-0.38	0.19	-0.37		ppb
Krypton	83-1						cps

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Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4831-06	Instrumnet Name :	P7
Client Sample ID :	E29W0	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 11:17:12	DataFile Name :	036SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	0.00	0.00	0.00	0.00		ppb
Lead	207-1	-0.01	0.00	0.00	-0.01		ppb
Lead	208-1	0.00	0.00	0.00	0.00		ppb
Lithium	6-1				102		%
Magnesium	24-2	2.75	2.30	2.49	2.51	8.90	ppb
Manganese	55-2	0.45	0.42	0.56	0.48	15.90	ppb
Molybdenum	94-1	-0.03	-0.03	-0.04	-0.03		ppb
Molybdenum	95-1	0.00	0.00	0.00	0.00		ppb
Molybdenum	96-1	-0.01	0.00	0.00	0.00		ppb
Molybdenum	97-1	0.00	0.00	0.00	0.00		ppb
Molybdenum	98-1	0.00	0.00	0.00	0.00		ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	-0.06	-0.06	-0.07	-0.06		ppb
Phosphorus	31-2	-17.27	-19.20	-16.31	-17.60		ppb
Potassium	39-2	6.73	5.26	11.03	7.67	39.05	ppb
Rhodium	103-1				107		%
Rhodium	103-2				105		%
Scandium	45-1				104		%
Scandium	45-2				99		%
Selenium	82-1	0.23	-0.18	-0.07	-0.01		ppb
Selenium	77-2	0.09	0.00	0.00	0.03	173.21	ppb
Selenium	78-2	0.68	0.81	0.29	0.59	45.13	ppb
Silicon	28-1	-3.77	-3.96	-4.02	-3.92		ppb
Silver	107-1	0.00	0.01	0.00	0.00	32.48	ppb
Silver	109-1	0.00	0.01	0.00	0.01	59.44	ppb
Sodium	23-2	14.98	12.83	17.76	15.19	16.29	ppb
Strontium	86-1	0.29	0.14	0.10	0.18	57.93	ppb
Strontium	88-1	0.56	0.25	0.15	0.32	65.26	ppb
Sulfur	34-1	-161.71	-176.80	-186.65	-175.05		ppb
Terbium	159-1				110		%
Terbium	159-2				105		%
Thallium	203-1	0.01	0.01	0.01	0.01	29.69	ppb
Thallium	205-1	0.01	0.01	0.01	0.01	12.31	ppb
Tin	118-1	-0.10	-0.10	-0.11	-0.11		ppb
Titanium	47-1	0.01	0.01	0.00	0.01	52.95	ppb

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Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4831-06	Instrumnet Name :	P7
Client Sample ID :	E29W0	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 11:17:12	DataFile Name :	036SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	0.00	0.00	0.00	0.00	38.76	ppb
Vanadium	51-2	0.01	0.00	0.01	0.01	38.97	ppb
Yttrium	89-1				107		%
Yttrium	89-2				104		%
Zinc	66-2	-1.04	-1.27	-0.58	-0.96		ppb
Zirconium	90-1	-0.02	-0.02	-0.02	-0.02		ppb
Zirconium	91-1	-0.02	-0.02	-0.02	-0.02		ppb

Reviewed By:Mohan
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Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4831-07	Instrumnet Name :	P7
Client Sample ID :	E29W4	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 11:20:29	DataFile Name :	037SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	1.35	1.46	1.28	1.36	6.63	ppb
Antimony	121-1	0.00	0.00	0.00	0.00	20.24	ppb
Arsenic	75-2	0.01	0.00	0.00	0.00	147.03	ppb
Barium	135-1	0.02	0.02	0.01	0.02	7.98	ppb
Barium	137-1	0.01	0.02	0.01	0.01	19.79	ppb
Beryllium	9-1	0.02	0.00	0.01	0.01	56.40	ppb
Bismuth	209-1				108		%
Bismuth	209-2				106		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	-0.01	0.00	0.04	0.01	248.45	ppb
Cadmium	106-1	-0.61	-0.86	-1.08	-0.85		ppb
Cadmium	111-1	-0.04	-0.06	-0.08	-0.06		ppb
Calcium	43-1	-0.90	-3.07	-9.19	-4.39		ppb
Calcium	44-1	-3.55	-3.09	-3.91	-3.52		ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.22	0.18	0.21	0.21	9.58	ppb
Cobalt	59-2	-0.01	-0.01	-0.01	-0.01		ppb
Copper	63-2	0.06	0.08	0.07	0.07	9.48	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				106		%
Holmium	165-2				105		%
Indium	115-1				102		%
Indium	115-2				103		%
Iron	56-2	1.30	1.24	1.23	1.25	2.99	ppb
Iron	57-2	1.15	0.97	0.99	1.04	9.78	ppb
Iron	54-2	1.64	0.90	1.42	1.32	29.02	ppb
Krypton	83-1						cps

Reviewed By:Mohan
On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4831-07	Instrumnet Name :	P7
Client Sample ID :	E29W4	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 11:20:29	DataFile Name :	037SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	0.01	0.01	0.01	0.01	15.44	ppb
Lead	207-1	0.02	0.01	0.02	0.02	35.43	ppb
Lead	208-1	0.01	0.01	0.02	0.01	23.64	ppb
Lithium	6-1				101		%
Magnesium	24-2	0.62	0.56	0.32	0.50	31.95	ppb
Manganese	55-2	0.86	0.88	0.83	0.86	2.80	ppb
Molybdenum	94-1	0.06	0.05	0.06	0.06	8.76	ppb
Molybdenum	95-1	0.00	0.00	0.00	0.00	281.92	ppb
Molybdenum	96-1	0.01	0.00	0.01	0.01	26.77	ppb
Molybdenum	97-1	0.00	0.00	0.00	0.00	3.64	ppb
Molybdenum	98-1	0.00	0.00	0.00	0.00	132.54	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.06	0.06	0.06	0.06	4.85	ppb
Phosphorus	31-2	-14.35	-17.41	-17.74	-16.50		ppb
Potassium	39-2	8.02	6.59	6.13	6.91	14.29	ppb
Rhodium	103-1				102		%
Rhodium	103-2				103		%
Scandium	45-1				98		%
Scandium	45-2				97		%
Selenium	82-1	0.21	-0.04	-0.08	0.03	526.35	ppb
Selenium	77-2	0.00	0.09	0.00	0.03	173.21	ppb
Selenium	78-2	-0.29	0.35	0.09	0.05	668.80	ppb
Silicon	28-1	-2.50	-2.37	-2.47	-2.45		ppb
Silver	107-1	0.00	0.00	0.00	0.00	28.60	ppb
Silver	109-1	0.00	0.00	0.00	0.00	15.76	ppb
Sodium	23-2	13.16	12.48	11.98	12.54	4.73	ppb
Strontium	86-1	0.43	0.41	0.00	0.28	87.49	ppb
Strontium	88-1	0.25	0.15	0.20	0.20	24.74	ppb
Sulfur	34-1	-0.69	-77.59	-117.13	-65.14		ppb
Terbium	159-1				104		%
Terbium	159-2				104		%
Thallium	203-1	0.01	0.00	0.01	0.01	31.03	ppb
Thallium	205-1	0.01	0.01	0.01	0.01	26.93	ppb
Tin	118-1	-0.01	-0.01	-0.01	-0.01		ppb
Titanium	47-1	0.00	0.01	0.02	0.01	72.82	ppb

Reviewed By:Mohan
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Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4831-07	Instrumnet Name :	P7
Client Sample ID :	E29W4	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 11:20:29	DataFile Name :	037SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	0.00	0.00	0.00	0.00	47.71	ppb
Vanadium	51-2	0.01	0.01	0.01	0.01	5.51	ppb
Yttrium	89-1				101		%
Yttrium	89-2				102		%
Zinc	66-2	0.10	0.07	0.05	0.07	31.22	ppb
Zirconium	90-1	0.03	0.03	0.03	0.03	7.12	ppb
Zirconium	91-1	0.02	0.04	0.03	0.03	20.41	ppb

Reviewed By:Mohan
On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4831-08	Instrumnet Name :	P7
Client Sample ID :	E29W1	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 11:23:43	DataFile Name :	038SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	4.81	4.47	4.77	4.68	4.07	ppb
Antimony	121-1	0.00	0.00	0.00	0.00	18.97	ppb
Arsenic	75-2	-0.01	0.00	0.00	0.00		ppb
Barium	135-1	0.01	0.00	-0.01	0.00		ppb
Barium	137-1	0.00	0.00	-0.01	0.00		ppb
Beryllium	9-1	0.01	0.02	0.01	0.01	39.12	ppb
Bismuth	209-1				111		%
Bismuth	209-2				108		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	-0.01	0.01	0.01	0.01	160.69	ppb
Cadmium	106-1	-1.26	-1.06	-1.43	-1.25		ppb
Cadmium	111-1	-0.09	-0.07	-0.10	-0.09		ppb
Calcium	43-1	-21.50	-20.77	-14.57	-18.95		ppb
Calcium	44-1	-22.13	-21.84	-20.59	-21.52		ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	-0.13	-0.12	-0.13	-0.13		ppb
Cobalt	59-2	0.01	0.02	0.01	0.01	39.13	ppb
Copper	63-2	0.07	0.05	0.05	0.06	19.86	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				108		%
Holmium	165-2				107		%
Indium	115-1				105		%
Indium	115-2				104		%
Iron	56-2	-0.01	-0.06	-0.11	-0.06		ppb
Iron	57-2	-0.77	-0.74	-0.79	-0.77		ppb
Iron	54-2	-0.84	-1.22	-1.41	-1.16		ppb
Krypton	83-1						cps

Reviewed By:Mohan
On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4831-08	Instrumnet Name :	P7
Client Sample ID :	E29W1	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 11:23:43	DataFile Name :	038SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	-0.01	-0.01	-0.01	-0.01		ppb
Lead	207-1	0.00	0.00	-0.01	0.00		ppb
Lead	208-1	-0.01	-0.01	-0.01	-0.01		ppb
Lithium	6-1				103		%
Magnesium	24-2	-0.41	-0.17	0.11	-0.15		ppb
Manganese	55-2	0.14	0.07	0.04	0.09	55.74	ppb
Molybdenum	94-1	-0.03	-0.02	-0.03	-0.02		ppb
Molybdenum	95-1	0.00	0.00	0.00	0.00		ppb
Molybdenum	96-1	0.00	-0.01	0.00	0.00		ppb
Molybdenum	97-1	0.00	0.00	0.00	0.00		ppb
Molybdenum	98-1	0.00	0.00	0.00	0.00		ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	-0.04	-0.04	-0.04	-0.04		ppb
Phosphorus	31-2	-17.76	-19.38	-19.94	-19.02		ppb
Potassium	39-2	2.11	1.06	1.34	1.50	36.32	ppb
Rhodium	103-1				104		%
Rhodium	103-2				105		%
Scandium	45-1				100		%
Scandium	45-2				101		%
Selenium	82-1	-0.06	-0.17	-0.09	-0.11		ppb
Selenium	77-2	0.00	0.00	0.00	0.00	N/A	ppb
Selenium	78-2	0.82	-0.01	-0.44	0.12	518.24	ppb
Silicon	28-1	-3.31	-3.80	-3.19	-3.44		ppb
Silver	107-1	0.00	0.00	0.00	0.00	64.26	ppb
Silver	109-1	0.00	0.00	0.00	0.00	26.34	ppb
Sodium	23-2	2.09	1.47	0.96	1.51	37.56	ppb
Strontium	86-1	-0.25	-0.13	-0.03	-0.14		ppb
Strontium	88-1	-0.08	-0.09	-0.03	-0.07		ppb
Sulfur	34-1	-192.00	-225.46	-160.98	-192.81		ppb
Terbium	159-1				108		%
Terbium	159-2				105		%
Thallium	203-1	0.00	0.00	0.00	0.00	98.46	ppb
Thallium	205-1	0.00	0.00	0.00	0.00	16.32	ppb
Tin	118-1	-0.09	-0.10	-0.08	-0.09		ppb
Titanium	47-1	0.03	0.02	0.01	0.02	64.41	ppb

Reviewed By:Mohan
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Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4831-08	Instrumnet Name :	P7
Client Sample ID :	E29W1	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 11:23:43	DataFile Name :	038SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	0.00	0.00	0.00	0.00		ppb
Vanadium	51-2	0.01	0.00	0.01	0.01	49.31	ppb
Yttrium	89-1				104		%
Yttrium	89-2				104		%
Zinc	66-2	-1.05	-1.06	-1.07	-1.06		ppb
Zirconium	90-1	-0.01	-0.01	-0.01	-0.01		ppb
Zirconium	91-1	-0.01	-0.01	-0.01	-0.01		ppb

Reviewed By:Mohan
On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4831-09	Instrumnet Name :	P7
Client Sample ID :	E29W5	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 11:26:59	DataFile Name :	039SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	8.22	8.33	8.26	8.27	0.64	ppb
Antimony	121-1	0.00	0.00	0.00	0.00	77.21	ppb
Arsenic	75-2	0.00	0.00	0.00	0.00		ppb
Barium	135-1	0.02	0.02	0.03	0.02	27.92	ppb
Barium	137-1	0.02	0.02	0.02	0.02	11.72	ppb
Beryllium	9-1	0.01	0.00	0.00	0.00	124.39	ppb
Bismuth	209-1				109		%
Bismuth	209-2				107		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	0.01	0.00	-0.01	0.00		ppb
Cadmium	106-1	-0.64	-1.57	-1.51	-1.24		ppb
Cadmium	111-1	-0.04	-0.11	-0.11	-0.09		ppb
Calcium	43-1	-19.29	-17.34	-11.68	-16.11		ppb
Calcium	44-1	-16.10	-15.47	-15.54	-15.70		ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	-0.08	-0.04	-0.07	-0.06		ppb
Cobalt	59-2	-0.01	-0.01	-0.01	-0.01		ppb
Copper	63-2	0.14	0.14	0.14	0.14	1.03	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				107		%
Holmium	165-2				106		%
Indium	115-1				103		%
Indium	115-2				103		%
Iron	56-2	0.28	0.29	0.40	0.32	20.56	ppb
Iron	57-2	-0.02	-0.21	-0.11	-0.11		ppb
Iron	54-2	-0.48	-0.47	-0.40	-0.45		ppb
Krypton	83-1						cps

Reviewed By:Mohan
On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4831-09	Instrumnet Name :	P7
Client Sample ID :	E29W5	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 11:26:59	DataFile Name :	039SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	0.00	-0.02	-0.01	-0.01		ppb
Lead	207-1	-0.02	-0.01	-0.01	-0.01		ppb
Lead	208-1	-0.01	-0.02	-0.01	-0.01		ppb
Lithium	6-1				102		%
Magnesium	24-2	0.30	0.22	0.37	0.30	23.98	ppb
Manganese	55-2	0.91	0.92	0.86	0.90	3.30	ppb
Molybdenum	94-1	-0.04	-0.02	-0.02	-0.03		ppb
Molybdenum	95-1	0.00	0.00	0.00	0.00	215.01	ppb
Molybdenum	96-1	0.00	-0.01	-0.01	-0.01		ppb
Molybdenum	97-1	0.00	0.00	0.00	0.00		ppb
Molybdenum	98-1	0.00	0.00	0.00	0.00		ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	-0.04	-0.02	-0.03	-0.03		ppb
Phosphorus	31-2	-17.26	-15.85	-17.14	-16.75		ppb
Potassium	39-2	0.65	2.37	0.99	1.34	68.34	ppb
Rhodium	103-1				103		%
Rhodium	103-2				104		%
Scandium	45-1				99		%
Scandium	45-2				100		%
Selenium	82-1	0.09	0.08	0.12	0.10	22.18	ppb
Selenium	77-2	0.00	0.09	0.00	0.03	173.21	ppb
Selenium	78-2	0.16	-0.02	0.45	0.20	118.42	ppb
Silicon	28-1	-2.65	-2.67	-2.10	-2.47		ppb
Silver	107-1	0.00	0.00	0.00	0.00	116.09	ppb
Silver	109-1	0.00	0.00	0.00	0.00	32.98	ppb
Sodium	23-2	1.92	2.59	3.01	2.51	21.83	ppb
Strontium	86-1	-0.25	0.09	-0.17	-0.11		ppb
Strontium	88-1	-0.12	-0.04	-0.03	-0.06		ppb
Sulfur	34-1	-109.96	-147.26	-135.40	-130.87		ppb
Terbium	159-1				106		%
Terbium	159-2				105		%
Thallium	203-1	0.00	0.00	0.00	0.00		ppb
Thallium	205-1	0.00	0.00	0.00	0.00		ppb
Tin	118-1	-0.04	-0.05	-0.05	-0.05		ppb
Titanium	47-1	0.03	0.02	0.02	0.02	25.49	ppb

Reviewed By:Mohan
On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4831-09	Instrumnet Name :	P7
Client Sample ID :	E29W5	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 11:26:59	DataFile Name :	039SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	0.00	0.00	0.00	0.00	117.10	ppb
Vanadium	51-2	0.01	0.01	0.01	0.01	13.49	ppb
Yttrium	89-1				102		%
Yttrium	89-2				103		%
Zinc	66-2	-0.52	-0.65	-0.59	-0.59		ppb
Zirconium	90-1	-0.02	-0.02	-0.02	-0.02		ppb
Zirconium	91-1	-0.01	-0.02	-0.02	-0.02		ppb

Reviewed By:Mohan
On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4831-10	Instrumnet Name :	P7
Client Sample ID :	E29R6	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 11:30:14	DataFile Name :	040SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	11.24	9.01	8.36	9.54	15.82	ppb
Antimony	121-1	0.01	0.01	0.01	0.01	6.26	ppb
Arsenic	75-2	0.58	0.42	0.47	0.49	16.88	ppb
Barium	135-1	58.13	58.29	58.32	58.25	0.18	ppb
Barium	137-1	59.02	59.43	58.77	59.07	0.57	ppb
Beryllium	9-1	0.00	0.00	0.01	0.00	154.93	ppb
Bismuth	209-1				110		%
Bismuth	209-2				104		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	0.03	0.10	0.06	0.06	48.75	ppb
Cadmium	106-1	-0.81	-1.13	-1.90	-1.28		ppb
Cadmium	111-1	-0.06	-0.08	-0.14	-0.09		ppb
Calcium	43-1	96980.36	99127.28	95966.27	97357.97	1.66	ppb
Calcium	44-1	96311.20	97554.82	95032.01	96299.34	1.31	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	-0.09	-0.09	-0.12	-0.10		ppb
Cobalt	59-2	0.63	0.62	0.59	0.61	3.27	ppb
Copper	63-2	0.11	0.08	0.09	0.09	17.72	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				110		%
Holmium	165-2				106		%
Indium	115-1				105		%
Indium	115-2				102		%
Iron	56-2	244.53	237.25	227.14	236.31	3.70	ppb
Iron	57-2	694.62	665.59	666.17	675.46	2.46	ppb
Iron	54-2	242.94	230.93	225.81	233.23	3.77	ppb
Krypton	83-1						cps

Reviewed By:Mohan
On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4831-10	Instrumnet Name :	P7
Client Sample ID :	E29R6	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 11:30:14	DataFile Name :	040SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	-0.01	-0.01	-0.01	-0.01		ppb
Lead	207-1	-0.01	-0.03	0.00	-0.01		ppb
Lead	208-1	-0.01	-0.02	-0.01	-0.01		ppb
Lithium	6-1				105		%
Magnesium	24-2	44508.95	42688.93	41551.64	42916.51	3.48	ppb
Manganese	55-2	407.50	388.24	381.13	392.29	3.48	ppb
Molybdenum	94-1	5.57	5.50	5.57	5.55	0.71	ppb
Molybdenum	95-1	6.69	6.68	6.50	6.62	1.63	ppb
Molybdenum	96-1	6.51	6.48	6.49	6.49	0.20	ppb
Molybdenum	97-1	6.72	6.72	6.54	6.66	1.55	ppb
Molybdenum	98-1	6.69	6.66	6.65	6.67	0.33	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.46	0.48	0.44	0.46	4.27	ppb
Phosphorus	31-2	-12.88	-13.96	-12.47	-13.10		ppb
Potassium	39-2	1559.82	1519.82	1485.78	1521.81	2.44	ppb
Rhodium	103-1				102		%
Rhodium	103-2				100		%
Scandium	45-1				102		%
Scandium	45-2				99		%
Selenium	82-1	0.28	0.12	0.04	0.15	81.07	ppb
Selenium	77-2	0.00	0.00	0.00	0.00	N/A	ppb
Selenium	78-2	1.16	-0.06	-0.16	0.31	236.67	ppb
Silicon	28-1	1546.26	1580.73	1529.74	1552.24	1.68	ppb
Silver	107-1	0.00	0.00	0.00	0.00	167.07	ppb
Silver	109-1	0.00	0.00	0.00	0.00	19.79	ppb
Sodium	23-2	16605.52	15820.77	15564.56	15996.95	3.39	ppb
Strontium	86-1	72860.38	72324.07	72084.35	72422.94	0.55	ppb
Strontium	88-1	72360.01	72439.13	72360.02	72386.39	0.06	ppb
Sulfur	34-1	14105.75	14024.85	13627.70	13919.44	1.84	ppb
Terbium	159-1				110		%
Terbium	159-2				105		%
Thallium	203-1	0.02	0.02	0.01	0.02	18.02	ppb
Thallium	205-1	0.02	0.02	0.02	0.02	11.16	ppb
Tin	118-1	-0.08	-0.09	-0.08	-0.08		ppb
Titanium	47-1	0.28	0.28	0.29	0.28	3.47	ppb

Reviewed By:Mohan
On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4831-10	Instrumnet Name :	P7
Client Sample ID :	E29R6	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 11:30:14	DataFile Name :	040SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	1.47	1.45	1.48	1.47	1.11	ppb
Vanadium	51-2	0.03	0.02	0.02	0.02	13.90	ppb
Yttrium	89-1				107		%
Yttrium	89-2				101		%
Zinc	66-2	-1.91	-2.30	-2.36	-2.19		ppb
Zirconium	90-1	0.01	0.01	0.02	0.01	22.90	ppb
Zirconium	91-1	0.02	0.02	0.02	0.02	12.26	ppb

Reviewed By:Mohan
On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4831-11	Instrumnet Name :	P7
Client Sample ID :	E29S0	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 11:33:25	DataFile Name :	041SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	2.73	2.61	2.84	2.73	4.20	ppb
Antimony	121-1	0.04	0.04	0.05	0.04	11.72	ppb
Arsenic	75-2	0.53	0.53	0.53	0.53	0.33	ppb
Barium	135-1	190.45	196.50	193.66	193.54	1.56	ppb
Barium	137-1	196.49	204.63	203.88	201.67	2.23	ppb
Beryllium	9-1	0.00	0.01	0.00	0.00	156.60	ppb
Bismuth	209-1				110		%
Bismuth	209-2				107		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	0.04	0.02	0.02	0.03	40.48	ppb
Cadmium	106-1	-1.07	-0.63	-1.57	-1.09		ppb
Cadmium	111-1	-0.07	-0.04	-0.11	-0.07		ppb
Calcium	43-1	100894.22	99681.85	101584.70	100720.26	0.96	ppb
Calcium	44-1	100397.22	100015.90	99914.12	100109.08	0.25	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.05	0.05	0.02	0.04	49.25	ppb
Cobalt	59-2	0.24	0.22	0.22	0.23	4.58	ppb
Copper	63-2	0.64	0.60	0.59	0.61	3.80	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				111		%
Holmium	165-2				108		%
Indium	115-1				105		%
Indium	115-2				105		%
Iron	56-2	128.47	122.50	124.97	125.31	2.40	ppb
Iron	57-2	588.32	564.92	591.02	581.42	2.47	ppb
Iron	54-2	125.39	119.07	123.42	122.63	2.64	ppb
Krypton	83-1						cps

Reviewed By:Mohan
On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4831-11	Instrumnet Name :	P7
Client Sample ID :	E29S0	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 11:33:25	DataFile Name :	041SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	0.03	0.03	0.02	0.02	19.90	ppb
Lead	207-1	0.02	0.04	0.03	0.03	25.07	ppb
Lead	208-1	0.02	0.02	0.02	0.02	3.01	ppb
Lithium	6-1				104		%
Magnesium	24-2	39127.16	37622.46	38127.41	38292.35	2.00	ppb
Manganese	55-2	121.32	115.31	118.86	118.50	2.55	ppb
Molybdenum	94-1	2.45	2.50	2.39	2.44	2.28	ppb
Molybdenum	95-1	2.87	2.90	2.87	2.88	0.58	ppb
Molybdenum	96-1	2.89	2.81	2.85	2.85	1.39	ppb
Molybdenum	97-1	2.94	2.93	2.91	2.93	0.51	ppb
Molybdenum	98-1	2.96	2.93	2.91	2.93	0.86	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	1.14	1.14	1.10	1.13	2.27	ppb
Phosphorus	31-2	-13.35	-11.47	-13.80	-12.87		ppb
Potassium	39-2	1749.95	1725.74	1742.48	1739.39	0.71	ppb
Rhodium	103-1				103		%
Rhodium	103-2				103		%
Scandium	45-1				102		%
Scandium	45-2				101		%
Selenium	82-1	0.99	1.04	0.83	0.95	11.68	ppb
Selenium	77-2	0.80	0.72	1.16	0.89	26.33	ppb
Selenium	78-2	1.32	0.29	0.57	0.73	73.29	ppb
Silicon	28-1	1186.58	1194.71	1195.31	1192.20	0.41	ppb
Silver	107-1	0.00	0.00	0.00	0.00	57.66	ppb
Silver	109-1	0.00	0.00	0.00	0.00	131.92	ppb
Sodium	23-2	16749.89	16067.18	16105.84	16307.64	2.35	ppb
Strontium	86-1	6337.05	6265.57	6405.14	6335.92	1.10	ppb
Strontium	88-1	6317.46	6294.87	6266.52	6292.95	0.41	ppb
Sulfur	34-1	9422.35	9409.99	9261.56	9364.63	0.96	ppb
Terbium	159-1				109		%
Terbium	159-2				107		%
Thallium	203-1	0.03	0.03	0.03	0.03	3.08	ppb
Thallium	205-1	0.03	0.03	0.03	0.03	6.59	ppb
Tin	118-1	-0.02	0.02	0.00	0.00		ppb
Titanium	47-1	0.23	0.21	0.26	0.24	10.36	ppb

Reviewed By:Mohan
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Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4831-11	Instrumnet Name :	P7
Client Sample ID :	E29S0	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 11:33:25	DataFile Name :	041SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	1.36	1.38	1.40	1.38	1.24	ppb
Vanadium	51-2	0.05	0.05	0.06	0.05	10.48	ppb
Yttrium	89-1				106		%
Yttrium	89-2				106		%
Zinc	66-2	-1.97	-2.13	-2.26	-2.12		ppb
Zirconium	90-1	0.04	0.03	0.03	0.03	12.41	ppb
Zirconium	91-1	0.03	0.04	0.03	0.03	11.23	ppb

Reviewed By:Mohan
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Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4831-12	Instrumnet Name :	P7
Client Sample ID :	E29S2	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 11:36:33	DataFile Name :	042SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	2.92	2.89	2.71	2.84	3.93	ppb
Antimony	121-1	0.00	0.00	0.00	0.00	16.38	ppb
Arsenic	75-2	0.39	0.46	0.42	0.42	8.38	ppb
Barium	135-1	56.31	58.15	57.88	57.44	1.73	ppb
Barium	137-1	57.56	58.66	58.27	58.16	0.95	ppb
Beryllium	9-1	0.00	0.01	0.00	0.00	165.68	ppb
Bismuth	209-1				111		%
Bismuth	209-2				107		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	0.02	0.01	0.02	0.02	20.19	ppb
Cadmium	106-1	-0.73	-1.10	-1.25	-1.03		ppb
Cadmium	111-1	-0.05	-0.08	-0.09	-0.07		ppb
Calcium	43-1	92216.82	96702.74	95641.01	94853.52	2.47	ppb
Calcium	44-1	92840.26	95185.85	93647.65	93891.25	1.27	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	-0.13	-0.15	-0.14	-0.14		ppb
Cobalt	59-2	0.60	0.61	0.58	0.60	2.84	ppb
Copper	63-2	0.12	0.10	0.12	0.11	6.98	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				111		%
Holmium	165-2				109		%
Indium	115-1				107		%
Indium	115-2				105		%
Iron	56-2	229.34	226.26	224.96	226.85	0.99	ppb
Iron	57-2	658.63	654.29	661.24	658.05	0.53	ppb
Iron	54-2	219.71	220.24	218.35	219.43	0.44	ppb
Krypton	83-1						cps

Reviewed By:Mohan
On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4831-12	Instrumnet Name :	P7
Client Sample ID :	E29S2	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 11:36:33	DataFile Name :	042SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	0.00	0.00	-0.01	0.00		ppb
Lead	207-1	-0.01	-0.01	0.00	-0.01		ppb
Lead	208-1	-0.01	-0.01	-0.01	-0.01		ppb
Lithium	6-1				105		%
Magnesium	24-2	40775.31	41360.05	41200.24	41111.87	0.74	ppb
Manganese	55-2	384.94	377.24	377.78	379.99	1.13	ppb
Molybdenum	94-1	5.37	5.32	5.37	5.35	0.52	ppb
Molybdenum	95-1	6.36	6.48	6.55	6.47	1.51	ppb
Molybdenum	96-1	6.22	6.33	6.45	6.33	1.75	ppb
Molybdenum	97-1	6.42	6.57	6.53	6.51	1.20	ppb
Molybdenum	98-1	6.44	6.61	6.66	6.57	1.80	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.49	0.47	0.51	0.49	4.32	ppb
Phosphorus	31-2	-13.99	-13.07	-13.20	-13.42		ppb
Potassium	39-2	1461.70	1460.99	1423.27	1448.65	1.52	ppb
Rhodium	103-1				102		%
Rhodium	103-2				104		%
Scandium	45-1				103		%
Scandium	45-2				101		%
Selenium	82-1	0.14	0.17	-0.07	0.08	170.69	ppb
Selenium	77-2	0.09	0.00	0.00	0.03	173.21	ppb
Selenium	78-2	-0.26	0.66	-0.42	0.00		ppb
Silicon	28-1	1509.44	1541.29	1508.99	1519.91	1.22	ppb
Silver	107-1	0.00	0.00	0.00	0.00	63.37	ppb
Silver	109-1	0.00	0.00	0.00	0.00	25.18	ppb
Sodium	23-2	15328.33	15598.05	15417.79	15448.05	0.89	ppb
Strontium	86-1	69459.21	71497.51	71772.63	70909.79	1.78	ppb
Strontium	88-1	70249.40	70819.84	71436.86	70835.37	0.84	ppb
Sulfur	34-1	13816.91	14311.71	14075.24	14067.95	1.76	ppb
Terbium	159-1				110		%
Terbium	159-2				108		%
Thallium	203-1	0.02	0.02	0.02	0.02	16.27	ppb
Thallium	205-1	0.02	0.02	0.02	0.02	5.93	ppb
Tin	118-1	-0.10	-0.07	-0.07	-0.08		ppb
Titanium	47-1	0.28	0.29	0.31	0.29	6.16	ppb

Reviewed By:Mohan
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Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4831-12	Instrumnet Name :	P7
Client Sample ID :	E29S2	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 11:36:33	DataFile Name :	042SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	1.41	1.43	1.43	1.42	0.99	ppb
Vanadium	51-2	0.02	0.02	0.02	0.02	7.65	ppb
Yttrium	89-1				108		%
Yttrium	89-2				105		%
Zinc	66-2	-2.58	-2.92	-2.74	-2.75		ppb
Zirconium	90-1	0.00	0.00	0.00	0.00	50.45	ppb
Zirconium	91-1	0.00	0.00	0.00	0.00	80.79	ppb

Reviewed By:Mohan
On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4831-13	Instrumnet Name :	P7
Client Sample ID :	E29S6	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 11:39:43	DataFile Name :	043SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	752.63	757.94	771.78	760.79	1.30	ppb
Antimony	121-1	1.06	1.07	1.10	1.08	1.95	ppb
Arsenic	75-2	5.25	5.19	5.37	5.27	1.71	ppb
Barium	135-1	140.89	144.72	146.17	143.93	1.89	ppb
Barium	137-1	146.64	151.89	150.13	149.55	1.79	ppb
Beryllium	9-1	0.04	0.04	0.04	0.04	4.16	ppb
Bismuth	209-1				111		%
Bismuth	209-2				106		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	0.16	0.12	0.14	0.14	15.91	ppb
Cadmium	106-1	-0.78	-0.62	-1.24	-0.88		ppb
Cadmium	111-1	-0.04	-0.02	-0.06	-0.04		ppb
Calcium	43-1	113156.51	117450.04	114736.53	115114.36	1.89	ppb
Calcium	44-1	111478.96	118210.04	115415.39	115034.80	2.94	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	1.95	1.93	2.03	1.97	2.64	ppb
Cobalt	59-2	2.01	2.10	2.11	2.07	2.52	ppb
Copper	63-2	3.60	3.66	3.69	3.65	1.15	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				112		%
Holmium	165-2				108		%
Indium	115-1				106		%
Indium	115-2				104		%
Iron	56-2	3221.85	3226.27	3297.31	3248.48	1.30	ppb
Iron	57-2	3697.11	3755.41	3800.70	3751.07	1.38	ppb
Iron	54-2	3190.34	3295.07	3244.79	3243.40	1.61	ppb
Krypton	83-1						cps

Reviewed By:Mohan
On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4831-13	Instrumnet Name :	P7
Client Sample ID :	E29S6	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 11:39:43	DataFile Name :	043SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	1.15	1.21	1.20	1.19	2.67	ppb
Lead	207-1	1.05	1.11	1.09	1.09	2.69	ppb
Lead	208-1	1.09	1.13	1.13	1.12	2.40	ppb
Lithium	6-1				104		%
Magnesium	24-2	47912.28	48053.48	48261.33	48075.70	0.37	ppb
Manganese	55-2	344.02	340.90	345.45	343.46	0.68	ppb
Molybdenum	94-1	11.84	12.49	12.40	12.24	2.85	ppb
Molybdenum	95-1	12.82	13.24	13.27	13.11	1.91	ppb
Molybdenum	96-1	12.57	13.13	13.24	12.98	2.76	ppb
Molybdenum	97-1	12.71	13.36	13.45	13.17	3.06	ppb
Molybdenum	98-1	12.96	13.56	13.36	13.29	2.27	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	4.83	4.84	5.10	4.92	3.10	ppb
Phosphorus	31-2	46.80	51.94	49.46	49.40	5.20	ppb
Potassium	39-2	2248.21	2310.40	2345.16	2301.25	2.13	ppb
Rhodium	103-1				101		%
Rhodium	103-2				102		%
Scandium	45-1				104		%
Scandium	45-2				100		%
Selenium	82-1	0.12	0.26	0.13	0.17	45.04	ppb
Selenium	77-2	0.27	0.91	0.46	0.54	59.87	ppb
Selenium	78-2	0.56	0.37	0.05	0.33	79.82	ppb
Silicon	28-1	1803.57	1931.53	1883.86	1872.99	3.45	ppb
Silver	107-1	0.00	0.00	0.01	0.00	7.67	ppb
Silver	109-1	0.01	0.00	0.00	0.00	16.05	ppb
Sodium	23-2	14658.46	14764.81	14874.42	14765.89	0.73	ppb
Strontium	86-1	5866.14	6036.10	6079.24	5993.83	1.88	ppb
Strontium	88-1	5910.52	6076.75	6077.28	6021.52	1.60	ppb
Sulfur	34-1	24844.10	26552.81	25826.03	25740.98	3.33	ppb
Terbium	159-1				111		%
Terbium	159-2				107		%
Thallium	203-1	0.06	0.05	0.05	0.05	3.65	ppb
Thallium	205-1	0.05	0.06	0.05	0.05	1.88	ppb
Tin	118-1	0.03	0.05	0.04	0.04	22.88	ppb
Titanium	47-1	19.23	18.80	18.92	18.98	1.16	ppb

Reviewed By:Mohan
On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4831-13	Instrumnet Name :	P7
Client Sample ID :	E29S6	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 11:39:43	DataFile Name :	043SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	1.12	1.14	1.16	1.14	1.63	ppb
Vanadium	51-2	1.67	1.83	1.79	1.76	4.90	ppb
Yttrium	89-1				106		%
Yttrium	89-2				104		%
Zinc	66-2	2.94	2.76	3.04	2.91	4.93	ppb
Zirconium	90-1	0.77	0.80	0.78	0.78	1.98	ppb
Zirconium	91-1	0.78	0.78	0.83	0.80	3.52	ppb

Reviewed By:Mohan
On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	CCV005	Instrumnet Name :	P7
Client Sample ID :	CCV005	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 11:42:51	DataFile Name :	044CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	50693.67	49597.89	49407.60	49899.72	1.39	ppb
Antimony	121-1	495.23	501.37	507.70	501.43	1.24	ppb
Arsenic	75-2	521.42	524.68	519.49	521.86	0.50	ppb
Barium	135-1	2480.35	2495.82	2512.75	2496.31	0.65	ppb
Barium	137-1	2449.56	2498.01	2533.08	2493.55	1.68	ppb
Beryllium	9-1	496.66	508.64	519.96	508.42	2.29	ppb
Bismuth	209-1				104		%
Bismuth	209-2				97		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	504.19	505.56	513.85	507.87	1.03	ppb
Cadmium	106-1	497.27	504.25	508.81	503.44	1.15	ppb
Cadmium	111-1	505.15	507.28	512.19	508.20	0.71	ppb
Calcium	43-1	243809.84	243997.66	249017.12	245608.21	1.20	ppb
Calcium	44-1	246603.21	243736.17	251679.26	247339.55	1.63	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	524.84	505.75	497.40	509.33	2.76	ppb
Cobalt	59-2	530.98	519.07	505.60	518.55	2.45	ppb
Copper	63-2	5264.64	5093.76	5020.17	5126.19	2.45	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				110		%
Holmium	165-2				106		%
Indium	115-1				100		%
Indium	115-2				99		%
Iron	56-2	130115.64	126535.94	124587.04	127079.54	2.21	ppb
Iron	57-2	129213.16	125404.39	124630.88	126416.14	1.94	ppb
Iron	54-2	128826.85	125188.72	122668.96	125561.51	2.47	ppb
Krypton	83-1						cps

Reviewed By:Mohan
On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	CCV005	Instrumnet Name :	P7
Client Sample ID :	CCV005	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 11:42:51	DataFile Name :	044CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	2538.67	2598.59	2599.90	2579.05	1.36	ppb
Lead	207-1	2520.66	2594.49	2588.64	2567.93	1.60	ppb
Lead	208-1	2516.66	2584.99	2581.81	2561.15	1.51	ppb
Lithium	6-1				98		%
Magnesium	24-2	257174.11	244754.35	242045.84	247991.43	3.25	ppb
Manganese	55-2	5203.65	5061.46	4998.42	5087.84	2.07	ppb
Molybdenum	94-1	4945.66	5055.98	5052.51	5018.05	1.25	ppb
Molybdenum	95-1	4958.57	5064.61	5047.28	5023.49	1.13	ppb
Molybdenum	96-1	4957.64	5055.58	5085.99	5033.07	1.33	ppb
Molybdenum	97-1	4948.97	5046.94	5092.14	5029.35	1.46	ppb
Molybdenum	98-1	4991.00	5050.53	5110.14	5050.56	1.18	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	522.70	500.73	509.00	510.81	2.17	ppb
Phosphorus	31-2	10317.49	9954.24	9893.99	10055.24	2.28	ppb
Potassium	39-2	125660.24	122262.04	120921.02	122947.77	1.99	ppb
Rhodium	103-1				95		%
Rhodium	103-2				96		%
Scandium	45-1				100		%
Scandium	45-2				100		%
Selenium	82-1	496.89	508.69	507.74	504.44	1.30	ppb
Selenium	77-2	500.92	497.13	506.48	501.51	0.94	ppb
Selenium	78-2	508.53	515.32	506.12	509.99	0.94	ppb
Silicon	28-1	393.13	395.10	405.91	398.05	1.73	ppb
Silver	107-1	498.81	502.58	507.99	503.12	0.92	ppb
Silver	109-1	500.64	497.69	507.50	501.95	1.00	ppb
Sodium	23-2	261556.31	253829.10	247950.43	254445.28	2.68	ppb
Strontium	86-1	12379.50	12555.54	12963.15	12632.73	2.37	ppb
Strontium	88-1	12488.91	12700.80	12766.16	12651.96	1.15	ppb
Sulfur	34-1	10440.62	10321.73	10443.98	10402.11	0.67	ppb
Terbium	159-1				109		%
Terbium	159-2				104		%
Thallium	203-1	498.77	510.88	517.49	509.05	1.87	ppb
Thallium	205-1	510.82	514.51	521.43	515.59	1.04	ppb
Tin	118-1	486.19	495.77	496.07	492.68	1.14	ppb
Titanium	47-1	4916.15	4975.58	5035.73	4975.82	1.20	ppb

Reviewed By:Mohan
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Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	CCV005	Instrumnet Name :	P7
Client Sample ID :	CCV005	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 11:42:51	DataFile Name :	044CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	505.82	515.03	526.37	515.74	2.00	ppb
Vanadium	51-2	529.85	514.28	503.24	515.79	2.59	ppb
Yttrium	89-1				103		%
Yttrium	89-2				103		%
Zinc	66-2	5268.52	5079.67	5075.21	5141.14	2.15	ppb
Zirconium	90-1	498.54	510.33	509.95	506.27	1.32	ppb
Zirconium	91-1	497.98	515.37	511.54	508.30	1.80	ppb

Reviewed By:Mohan
On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	CCB005	Instrumnet Name :	P7
Client Sample ID :	CCB005	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 11:45:33	DataFile Name :	045CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	1.32	0.52	0.39	0.74	67.63	ppb
Antimony	121-1	0.25	0.27	0.32	0.28	13.41	ppb
Arsenic	75-2	0.02	0.01	0.01	0.02	35.63	ppb
Barium	135-1	0.48	0.21	0.14	0.27	65.96	ppb
Barium	137-1	0.49	0.24	0.12	0.28	66.01	ppb
Beryllium	9-1	0.13	0.09	0.03	0.08	58.45	ppb
Bismuth	209-1				107		%
Bismuth	209-2				106		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	0.11	0.08	0.00	0.06	86.80	ppb
Cadmium	106-1	-1.24	-0.95	-1.59	-1.26		ppb
Cadmium	111-1	0.04	-0.01	-0.08	-0.02		ppb
Calcium	43-1	52.38	22.24	9.54	28.06	78.42	ppb
Calcium	44-1	46.40	22.35	10.32	26.36	69.70	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.01	0.00	0.01	0.01	125.13	ppb
Cobalt	59-2	0.00	0.00	-0.01	0.00		ppb
Copper	63-2	0.15	0.13	0.13	0.14	8.00	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				105		%
Holmium	165-2				105		%
Indium	115-1				101		%
Indium	115-2				104		%
Iron	56-2	3.14	2.53	2.00	2.56	22.32	ppb
Iron	57-2	2.44	1.67	1.49	1.87	26.94	ppb
Iron	54-2	3.38	2.93	2.33	2.88	18.35	ppb
Krypton	83-1						cps

Reviewed By:Mohan
On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	CCB005	Instrumnet Name :	P7
Client Sample ID :	CCB005	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 11:45:33	DataFile Name :	045CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	0.50	0.23	0.12	0.29	68.83	ppb
Lead	207-1	0.49	0.24	0.13	0.29	64.88	ppb
Lead	208-1	0.50	0.24	0.13	0.29	65.40	ppb
Lithium	6-1				100		%
Magnesium	24-2	4.88	3.95	2.90	3.91	25.42	ppb
Manganese	55-2	0.08	0.09	0.04	0.07	44.28	ppb
Molybdenum	94-1	1.23	0.74	0.58	0.85	39.94	ppb
Molybdenum	95-1	1.11	0.61	0.40	0.71	51.38	ppb
Molybdenum	96-1	1.12	0.62	0.44	0.73	47.93	ppb
Molybdenum	97-1	1.13	0.59	0.41	0.71	52.01	ppb
Molybdenum	98-1	1.11	0.61	0.44	0.72	48.62	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	-0.03	-0.04	-0.05	-0.04		ppb
Phosphorus	31-2	-16.88	-19.99	-16.88	-17.92		ppb
Potassium	39-2	2.54	3.55	0.11	2.06	85.76	ppb
Rhodium	103-1				100		%
Rhodium	103-2				104		%
Scandium	45-1				97		%
Scandium	45-2				99		%
Selenium	82-1	0.23	0.16	0.05	0.15	59.05	ppb
Selenium	77-2	0.00	0.18	0.00	0.06	173.21	ppb
Selenium	78-2	0.34	-0.07	0.00	0.09	242.12	ppb
Silicon	28-1	-1.40	-1.56	-2.29	-1.75		ppb
Silver	107-1	0.10	0.05	0.03	0.06	60.78	ppb
Silver	109-1	0.10	0.05	0.03	0.06	60.94	ppb
Sodium	23-2	7.40	5.96	4.83	6.07	21.24	ppb
Strontium	86-1	2.62	1.01	0.11	1.25	102.11	ppb
Strontium	88-1	2.49	1.16	0.65	1.43	66.20	ppb
Sulfur	34-1	-262.54	-288.95	-304.16	-285.22		ppb
Terbium	159-1				104		%
Terbium	159-2				104		%
Thallium	203-1	0.10	0.06	0.04	0.06	52.42	ppb
Thallium	205-1	0.10	0.06	0.04	0.07	53.39	ppb
Tin	118-1	0.11	0.05	0.05	0.07	52.87	ppb
Titanium	47-1	1.04	0.53	0.28	0.62	62.39	ppb

Reviewed By:Mohan
On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	CCB005	Instrumnet Name :	P7
Client Sample ID :	CCB005	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 11:45:33	DataFile Name :	045CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	0.10	0.05	0.03	0.06	61.82	ppb
Vanadium	51-2	0.01	0.01	0.01	0.01	13.22	ppb
Yttrium	89-1				100		%
Yttrium	89-2				103		%
Zinc	66-2	0.04	0.30	-0.08	0.09	219.79	ppb
Zirconium	90-1	0.20	0.15	0.14	0.16	20.32	ppb
Zirconium	91-1	0.21	0.15	0.13	0.16	25.68	ppb

Reviewed By:Mohan
On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4831-14	Instrumnet Name :	P7
Client Sample ID :	E29W6	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 12:02:28	DataFile Name :	046SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	16.31	16.52	16.64	16.49	1.01	ppb
Antimony	121-1	0.04	0.04	0.05	0.04	17.91	ppb
Arsenic	75-2	0.01	0.01	0.00	0.00	231.43	ppb
Barium	135-1	0.14	0.16	0.18	0.16	13.20	ppb
Barium	137-1	0.14	0.14	0.17	0.15	12.41	ppb
Beryllium	9-1	0.01	-0.01	0.01	0.01	189.78	ppb
Bismuth	209-1				108		%
Bismuth	209-2				106		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	-0.01	-0.01	-0.01	-0.01		ppb
Cadmium	106-1	-2.45	-2.69	-2.48	-2.54		ppb
Cadmium	111-1	-0.17	-0.19	-0.17	-0.18		ppb
Calcium	43-1	43.78	51.45	41.61	45.62	11.34	ppb
Calcium	44-1	40.22	42.54	43.11	41.96	3.65	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	-0.05	-0.04	-0.04	-0.04		ppb
Cobalt	59-2	-0.01	-0.01	0.00	0.00		ppb
Copper	63-2	0.38	0.38	0.37	0.38	1.84	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				106		%
Holmium	165-2				106		%
Indium	115-1				105		%
Indium	115-2				104		%
Iron	56-2	0.99	0.93	0.85	0.92	7.58	ppb
Iron	57-2	1.30	1.16	0.32	0.92	57.34	ppb
Iron	54-2	0.45	-0.01	-0.18	0.09	375.28	ppb
Krypton	83-1						cps

Reviewed By:Mohan
On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4831-14	Instrumnet Name :	P7
Client Sample ID :	E29W6	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 12:02:28	DataFile Name :	046SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	0.01	0.02	0.01	0.01	48.39	ppb
Lead	207-1	0.01	0.01	0.01	0.01	21.32	ppb
Lead	208-1	0.01	0.01	0.01	0.01	25.50	ppb
Lithium	6-1				97		%
Magnesium	24-2	3.32	3.14	3.38	3.28	3.68	ppb
Manganese	55-2	0.97	1.02	0.95	0.98	4.16	ppb
Molybdenum	94-1	-0.01	0.00	0.00	0.00		ppb
Molybdenum	95-1	0.01	0.01	0.04	0.02	107.18	ppb
Molybdenum	96-1	0.01	0.00	0.15	0.05	157.32	ppb
Molybdenum	97-1	0.01	0.01	0.25	0.09	152.28	ppb
Molybdenum	98-1	0.00	0.01	0.24	0.08	162.98	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.07	0.12	0.08	0.09	29.90	ppb
Phosphorus	31-2	-19.85	-18.75	-19.69	-19.43		ppb
Potassium	39-2	3.31	3.35	1.93	2.86	28.35	ppb
Rhodium	103-1				104		%
Rhodium	103-2				106		%
Scandium	45-1				103		%
Scandium	45-2				102		%
Selenium	82-1	-0.02	0.02	-0.23	-0.08		ppb
Selenium	77-2	0.00	0.00	0.18	0.06	173.21	ppb
Selenium	78-2	-0.20	0.99	0.53	0.44	137.00	ppb
Silicon	28-1	-2.02	-2.57	-1.58	-2.06		ppb
Silver	107-1	0.00	0.00	0.01	0.00	106.93	ppb
Silver	109-1	0.00	0.00	0.01	0.00	127.60	ppb
Sodium	23-2	61.79	60.68	59.49	60.65	1.89	ppb
Strontium	86-1	2.61	2.55	3.49	2.88	18.28	ppb
Strontium	88-1	2.99	2.96	2.98	2.98	0.56	ppb
Sulfur	34-1	-108.94	-151.31	-130.93	-130.39		ppb
Terbium	159-1				106		%
Terbium	159-2				105		%
Thallium	203-1	0.00	0.00	0.00	0.00	17.92	ppb
Thallium	205-1	0.00	0.00	0.00	0.00	82.86	ppb
Tin	118-1	-0.04	-0.04	-0.03	-0.03		ppb
Titanium	47-1	0.02	0.03	0.04	0.03	41.42	ppb

Reviewed By:Mohan
On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4831-14	Instrumnet Name :	P7
Client Sample ID :	E29W6	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 12:02:28	DataFile Name :	046SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	0.00	0.00	0.00	0.00	329.66	ppb
Vanadium	51-2	0.01	0.01	0.01	0.01	21.33	ppb
Yttrium	89-1				104		%
Yttrium	89-2				105		%
Zinc	66-2	0.52	0.34	0.06	0.30	76.79	ppb
Zirconium	90-1	-0.01	-0.01	-0.01	-0.01		ppb
Zirconium	91-1	-0.01	-0.01	-0.01	-0.01		ppb

Reviewed By:Mohan
On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4831-15	Instrumnet Name :	P7
Client Sample ID :	E29W2	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 12:05:43	DataFile Name :	047SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	16.38	16.79	16.44	16.53	1.34	ppb
Antimony	121-1	0.03	0.03	0.03	0.03	4.81	ppb
Arsenic	75-2	0.02	0.00	0.00	0.01	163.60	ppb
Barium	135-1	0.12	0.13	0.13	0.13	3.77	ppb
Barium	137-1	0.14	0.15	0.13	0.14	4.99	ppb
Beryllium	9-1	0.00	0.01	0.01	0.01	80.27	ppb
Bismuth	209-1				109		%
Bismuth	209-2				106		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	-0.02	0.02	-0.01	-0.01		ppb
Cadmium	106-1	-0.86	-1.26	-1.79	-1.30		ppb
Cadmium	111-1	-0.06	-0.09	-0.13	-0.09		ppb
Calcium	43-1	37.94	37.01	40.05	38.33	4.07	ppb
Calcium	44-1	32.09	34.15	38.28	34.84	9.05	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	-0.15	-0.13	-0.13	-0.14		ppb
Cobalt	59-2	-0.01	-0.01	-0.01	-0.01		ppb
Copper	63-2	0.33	0.34	0.31	0.33	3.79	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				108		%
Holmium	165-2				105		%
Indium	115-1				105		%
Indium	115-2				104		%
Iron	56-2	0.20	0.25	0.17	0.21	18.58	ppb
Iron	57-2	0.07	0.63	0.37	0.36	78.64	ppb
Iron	54-2	-1.06	-0.80	-1.07	-0.98		ppb
Krypton	83-1						cps

Reviewed By:Mohan
On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4831-15	Instrumnet Name :	P7
Client Sample ID :	E29W2	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 12:05:43	DataFile Name :	047SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	-0.02	-0.02	-0.01	-0.01		ppb
Lead	207-1	-0.02	-0.01	-0.01	-0.01		ppb
Lead	208-1	-0.02	-0.02	-0.01	-0.01		ppb
Lithium	6-1				98		%
Magnesium	24-2	2.60	2.53	2.55	2.56	1.57	ppb
Manganese	55-2	-0.31	-0.27	-0.28	-0.28		ppb
Molybdenum	94-1	-0.03	-0.02	-0.01	-0.02		ppb
Molybdenum	95-1	0.00	0.00	0.00	0.00		ppb
Molybdenum	96-1	0.00	0.00	0.00	0.00		ppb
Molybdenum	97-1	0.00	0.00	0.00	0.00	629.25	ppb
Molybdenum	98-1	0.00	0.00	0.00	0.00		ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	-0.03	-0.03	-0.03	-0.03		ppb
Phosphorus	31-2	-18.05	-18.91	-20.59	-19.18		ppb
Potassium	39-2	-0.83	-0.54	-0.63	-0.67		ppb
Rhodium	103-1				105		%
Rhodium	103-2				105		%
Scandium	45-1				103		%
Scandium	45-2				102		%
Selenium	82-1	0.09	-0.19	0.02	-0.03		ppb
Selenium	77-2	0.00	0.00	0.00	0.00	N/A	ppb
Selenium	78-2	0.06	-0.13	0.26	0.06	298.50	ppb
Silicon	28-1	-2.18	-1.71	-1.65	-1.85		ppb
Silver	107-1	0.00	0.00	0.00	0.00	20.67	ppb
Silver	109-1	0.00	0.00	0.00	0.00	45.99	ppb
Sodium	23-2	33.41	34.32	32.82	33.52	2.26	ppb
Strontium	86-1	2.61	3.14	3.01	2.92	9.60	ppb
Strontium	88-1	2.82	2.79	2.78	2.80	0.75	ppb
Sulfur	34-1	-203.78	-177.00	-111.12	-163.97		ppb
Terbium	159-1				107		%
Terbium	159-2				104		%
Thallium	203-1	0.00	0.00	0.00	0.00		ppb
Thallium	205-1	0.00	0.00	0.00	0.00		ppb
Tin	118-1	-0.08	-0.06	-0.05	-0.06		ppb
Titanium	47-1	0.02	0.01	0.03	0.02	36.35	ppb

Reviewed By:Mohan
On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4831-15	Instrumnet Name :	P7
Client Sample ID :	E29W2	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 12:05:43	DataFile Name :	047SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	0.00	0.00	0.00	0.00		ppb
Vanadium	51-2	0.01	0.01	0.01	0.01	31.36	ppb
Yttrium	89-1				105		%
Yttrium	89-2				104		%
Zinc	66-2	0.07	0.01	-0.39	-0.10		ppb
Zirconium	90-1	-0.01	-0.01	-0.01	-0.01		ppb
Zirconium	91-1	-0.01	0.00	-0.01	-0.01		ppb

Reviewed By:Mohan
On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4832-01	Instrumnet Name :	P7
Client Sample ID :	E29S5	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 12:09:01	DataFile Name :	048SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	3.08	3.14	3.16	3.13	1.31	ppb
Antimony	121-1	0.20	0.21	0.21	0.21	1.40	ppb
Arsenic	75-2	2.87	2.91	2.83	2.87	1.48	ppb
Barium	135-1	64.13	65.89	66.56	65.53	1.91	ppb
Barium	137-1	64.82	67.23	67.25	66.43	2.10	ppb
Beryllium	9-1	0.00	0.01	0.00	0.00	252.68	ppb
Bismuth	209-1				109		%
Bismuth	209-2				105		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	0.05	0.12	0.09	0.09	37.14	ppb
Cadmium	106-1	-1.28	-1.33	-1.24	-1.28		ppb
Cadmium	111-1	-0.06	-0.07	-0.06	-0.06		ppb
Calcium	43-1	95054.88	96239.80	98594.01	96629.56	1.86	ppb
Calcium	44-1	94546.80	96763.55	98783.47	96697.94	2.19	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.08	0.06	0.06	0.07	16.13	ppb
Cobalt	59-2	0.11	0.10	0.11	0.10	5.81	ppb
Copper	63-2	1.17	1.12	1.12	1.14	2.56	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				111		%
Holmium	165-2				109		%
Indium	115-1				105		%
Indium	115-2				104		%
Iron	56-2	1.44	1.40	1.30	1.38	5.53	ppb
Iron	57-2	443.32	447.11	456.51	448.98	1.51	ppb
Iron	54-2	0.37	-0.18	0.43	0.21	161.09	ppb
Krypton	83-1						cps

Reviewed By:Mohan
On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4832-01	Instrumnet Name :	P7
Client Sample ID :	E29S5	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 12:09:01	DataFile Name :	048SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	0.01	0.01	0.02	0.01	37.67	ppb
Lead	207-1	0.01	0.01	0.00	0.01	43.89	ppb
Lead	208-1	0.01	0.01	0.01	0.01	20.67	ppb
Lithium	6-1				101		%
Magnesium	24-2	31042.64	30535.94	30575.69	30718.09	0.92	ppb
Manganese	55-2	9.10	9.04	9.09	9.08	0.39	ppb
Molybdenum	94-1	4.11	4.14	4.27	4.17	2.01	ppb
Molybdenum	95-1	4.88	5.09	5.21	5.06	3.30	ppb
Molybdenum	96-1	4.79	4.91	5.05	4.92	2.63	ppb
Molybdenum	97-1	4.99	5.07	5.23	5.10	2.46	ppb
Molybdenum	98-1	5.01	5.01	5.24	5.09	2.58	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.60	0.61	0.61	0.61	1.00	ppb
Phosphorus	31-2	820.14	773.22	787.06	793.47	3.04	ppb
Potassium	39-2	5300.05	5268.53	5245.36	5271.31	0.52	ppb
Rhodium	103-1				102		%
Rhodium	103-2				102		%
Scandium	45-1				104		%
Scandium	45-2				102		%
Selenium	82-1	2.43	2.40	2.18	2.34	5.74	ppb
Selenium	77-2	1.44	2.05	1.72	1.74	17.61	ppb
Selenium	78-2	1.74	2.04	2.82	2.20	25.39	ppb
Silicon	28-1	1332.49	1338.01	1379.67	1350.06	1.91	ppb
Silver	107-1	0.00	0.00	0.00	0.00	62.24	ppb
Silver	109-1	0.00	0.00	0.00	0.00	20.83	ppb
Sodium	23-2	82216.73	80619.18	81766.47	81534.13	1.01	ppb
Strontium	86-1	4999.99	5166.14	5290.09	5152.07	2.83	ppb
Strontium	88-1	5072.86	5132.85	5226.72	5144.14	1.51	ppb
Sulfur	34-1	12566.93	12744.93	12960.96	12757.61	1.55	ppb
Terbium	159-1				109		%
Terbium	159-2				106		%
Thallium	203-1	0.04	0.04	0.04	0.04	8.22	ppb
Thallium	205-1	0.04	0.04	0.05	0.04	7.44	ppb
Tin	118-1	-0.06	-0.07	-0.05	-0.06		ppb
Titanium	47-1	0.42	0.48	0.44	0.45	7.38	ppb

Reviewed By:Mohan
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Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4832-01	Instrumnet Name :	P7
Client Sample ID :	E29S5	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 12:09:01	DataFile Name :	048SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	0.69	0.72	0.71	0.71	2.55	ppb
Vanadium	51-2	0.58	0.59	0.58	0.59	1.21	ppb
Yttrium	89-1				106		%
Yttrium	89-2				105		%
Zinc	66-2	3.71	3.81	3.46	3.66	4.97	ppb
Zirconium	90-1	0.01	0.01	0.02	0.01	30.11	ppb
Zirconium	91-1	0.02	0.01	0.02	0.02	22.09	ppb

Reviewed By:Mohan
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Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4832-02	Instrumnet Name :	P7
Client Sample ID :	E29S5D	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 12:12:12	DataFile Name :	049SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	2.19	2.21	2.18	2.20	0.50	ppb
Antimony	121-1	0.21	0.21	0.21	0.21	0.58	ppb
Arsenic	75-2	2.97	2.96	2.87	2.93	1.81	ppb
Barium	135-1	64.55	66.81	65.99	65.78	1.74	ppb
Barium	137-1	65.61	67.12	67.38	66.70	1.44	ppb
Beryllium	9-1	0.01	0.01	0.02	0.01	62.81	ppb
Bismuth	209-1				108		%
Bismuth	209-2				104		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	0.06	0.08	0.10	0.08	26.55	ppb
Cadmium	106-1	-0.52	-1.18	-1.62	-1.11		ppb
Cadmium	111-1	-0.01	-0.06	-0.09	-0.05		ppb
Calcium	43-1	95907.96	97735.67	97705.04	97116.22	1.08	ppb
Calcium	44-1	95104.64	96863.53	97859.53	96609.23	1.44	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.12	0.06	0.07	0.08	38.24	ppb
Cobalt	59-2	0.11	0.11	0.11	0.11	2.86	ppb
Copper	63-2	0.70	0.71	0.76	0.72	4.08	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				109		%
Holmium	165-2				108		%
Indium	115-1				103		%
Indium	115-2				104		%
Iron	56-2	0.57	0.60	0.72	0.63	12.85	ppb
Iron	57-2	442.85	450.12	455.94	449.64	1.46	ppb
Iron	54-2	-0.35	-0.39	-0.48	-0.41		ppb
Krypton	83-1						cps

Reviewed By:Mohan
On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4832-02	Instrumnet Name :	P7
Client Sample ID :	E29S5D	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 12:12:12	DataFile Name :	049SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	0.10	0.11	0.11	0.10	4.42	ppb
Lead	207-1	0.08	0.11	0.09	0.10	14.98	ppb
Lead	208-1	0.09	0.10	0.10	0.10	7.70	ppb
Lithium	6-1				100		%
Magnesium	24-2	30748.33	30354.33	30983.28	30695.31	1.04	ppb
Manganese	55-2	5.78	5.70	5.83	5.77	1.09	ppb
Molybdenum	94-1	4.08	4.20	4.16	4.14	1.46	ppb
Molybdenum	95-1	4.94	5.08	5.05	5.02	1.49	ppb
Molybdenum	96-1	4.83	4.97	4.89	4.90	1.44	ppb
Molybdenum	97-1	4.91	5.22	4.98	5.04	3.23	ppb
Molybdenum	98-1	4.98	5.20	5.04	5.07	2.22	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.58	0.59	0.57	0.58	2.03	ppb
Phosphorus	31-2	810.54	801.38	811.56	807.83	0.69	ppb
Potassium	39-2	5275.40	5253.50	5337.45	5288.79	0.82	ppb
Rhodium	103-1				101		%
Rhodium	103-2				102		%
Scandium	45-1				102		%
Scandium	45-2				102		%
Selenium	82-1	2.53	2.54	2.34	2.47	4.58	ppb
Selenium	77-2	1.53	1.75	2.18	1.82	18.38	ppb
Selenium	78-2	2.29	2.21	2.23	2.25	1.77	ppb
Silicon	28-1	1344.97	1345.62	1360.32	1350.31	0.64	ppb
Silver	107-1	0.00	0.00	0.00	0.00	196.68	ppb
Silver	109-1	0.00	0.00	0.00	0.00	60.86	ppb
Sodium	23-2	80680.45	81057.10	81060.90	80932.82	0.27	ppb
Strontium	86-1	5136.01	5255.81	5239.91	5210.58	1.25	ppb
Strontium	88-1	5102.26	5198.73	5182.70	5161.23	1.00	ppb
Sulfur	34-1	12843.13	12601.01	12719.20	12721.12	0.95	ppb
Terbium	159-1				108		%
Terbium	159-2				106		%
Thallium	203-1	0.05	0.05	0.04	0.04	5.12	ppb
Thallium	205-1	0.05	0.04	0.05	0.04	7.25	ppb
Tin	118-1	-0.09	-0.09	-0.09	-0.09		ppb
Titanium	47-1	0.46	0.43	0.45	0.45	3.60	ppb

Reviewed By:Mohan
On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4832-02	Instrumnet Name :	P7
Client Sample ID :	E29S5D	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 12:12:12	DataFile Name :	049SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	0.69	0.72	0.71	0.70	2.17	ppb
Vanadium	51-2	0.61	0.57	0.60	0.59	3.10	ppb
Yttrium	89-1				105		%
Yttrium	89-2				104		%
Zinc	66-2	0.64	0.55	0.64	0.61	8.38	ppb
Zirconium	90-1	0.01	0.01	0.01	0.01	26.79	ppb
Zirconium	91-1	0.01	0.01	0.01	0.01	27.61	ppb

Reviewed By:Mohan
On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4832-01LX5	Instrumnet Name :	P7
Client Sample ID :	E29S5L	Dilution Factor :	5
Date & Time Acquired :	2024-11-20 12:15:25	DataFile Name :	050SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	0.82	0.95	1.47	1.08	31.52	ppb
Antimony	121-1	0.04	0.04	0.04	0.04	8.15	ppb
Arsenic	75-2	0.52	0.51	0.56	0.53	5.13	ppb
Barium	135-1	12.14	12.28	12.64	12.36	2.09	ppb
Barium	137-1	12.42	12.60	12.72	12.58	1.21	ppb
Beryllium	9-1	0.00	0.00	0.00	0.00	767.69	ppb
Bismuth	209-1				109		%
Bismuth	209-2				107		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	0.04	0.04	0.04	0.04	11.24	ppb
Cadmium	106-1	-0.63	-1.32	-1.39	-1.11		ppb
Cadmium	111-1	-0.04	-0.09	-0.10	-0.08		ppb
Calcium	43-1	18126.17	18473.38	18456.72	18352.09	1.07	ppb
Calcium	44-1	18104.28	18576.17	18512.31	18397.59	1.39	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	-0.02	-0.01	-0.02	-0.02		ppb
Cobalt	59-2	0.01	0.01	0.01	0.01	6.53	ppb
Copper	63-2	1.11	1.09	1.11	1.10	1.22	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				107		%
Holmium	165-2				108		%
Indium	115-1				103		%
Indium	115-2				103		%
Iron	56-2	0.77	0.39	0.43	0.53	39.40	ppb
Iron	57-2	81.89	85.25	84.07	83.74	2.04	ppb
Iron	54-2	0.28	-0.43	-0.61	-0.25		ppb
Krypton	83-1						cps

Reviewed By:Mohan
On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4832-01LX5	Instrumnet Name :	P7
Client Sample ID :	E29S5L	Dilution Factor :	5
Date & Time Acquired :	2024-11-20 12:15:25	DataFile Name :	050SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	0.00	0.00	0.00	0.00	136.82	ppb
Lead	207-1	-0.01	0.00	-0.01	0.00		ppb
Lead	208-1	0.00	0.00	0.00	0.00		ppb
Lithium	6-1				101		%
Magnesium	24-2	5707.53	5702.55	5616.98	5675.69	0.90	ppb
Manganese	55-2	1.83	1.90	1.79	1.84	3.01	ppb
Molybdenum	94-1	0.76	0.74	0.80	0.77	4.27	ppb
Molybdenum	95-1	0.92	0.97	0.97	0.95	3.04	ppb
Molybdenum	96-1	0.91	0.91	0.98	0.93	4.18	ppb
Molybdenum	97-1	0.88	0.95	0.99	0.94	5.87	ppb
Molybdenum	98-1	0.95	0.98	0.97	0.97	1.89	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.75	0.69	0.64	0.69	8.32	ppb
Phosphorus	31-2	135.25	127.44	128.58	130.43	3.23	ppb
Potassium	39-2	1010.85	1007.67	982.14	1000.22	1.57	ppb
Rhodium	103-1				101		%
Rhodium	103-2				104		%
Scandium	45-1				100		%
Scandium	45-2				100		%
Selenium	82-1	0.59	0.25	0.47	0.43	40.15	ppb
Selenium	77-2	0.28	0.27	0.82	0.46	68.81	ppb
Selenium	78-2	0.83	0.73	0.65	0.73	12.20	ppb
Silicon	28-1	248.10	254.37	260.38	254.28	2.41	ppb
Silver	107-1	0.00	0.00	0.00	0.00	267.76	ppb
Silver	109-1	0.00	0.00	0.00	0.00	50.13	ppb
Sodium	23-2	15493.34	15253.39	15096.17	15280.97	1.31	ppb
Strontium	86-1	931.43	938.41	960.38	943.41	1.60	ppb
Strontium	88-1	962.46	981.66	995.48	979.87	1.69	ppb
Sulfur	34-1	1988.53	1986.81	1966.10	1980.48	0.63	ppb
Terbium	159-1				106		%
Terbium	159-2				106		%
Thallium	203-1	0.01	0.02	0.02	0.02	14.96	ppb
Thallium	205-1	0.01	0.01	0.02	0.02	8.63	ppb
Tin	118-1	-0.05	-0.04	-0.03	-0.04		ppb
Titanium	47-1	0.09	0.11	0.10	0.10	13.45	ppb

Reviewed By:Mohan
On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4832-01LX5	Instrumnet Name :	P7
Client Sample ID :	E29S5L	Dilution Factor :	5
Date & Time Acquired :	2024-11-20 12:15:25	DataFile Name :	050SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	0.13	0.13	0.14	0.13	2.68	ppb
Vanadium	51-2	0.12	0.11	0.12	0.12	5.26	ppb
Yttrium	89-1				103		%
Yttrium	89-2				103		%
Zinc	66-2	0.86	0.86	0.83	0.85	1.54	ppb
Zirconium	90-1	0.00	0.00	0.00	0.00	48.41	ppb
Zirconium	91-1	0.00	0.00	0.01	0.00	123.99	ppb

Reviewed By:Mohan
On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4832-03	Instrumnet Name :	P7
Client Sample ID :	E29S5S	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 12:18:35	DataFile Name :	051SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	1667.47	1703.75	1698.28	1689.83	1.16	ppb
Antimony	121-1	104.58	102.39	102.83	103.27	1.13	ppb
Arsenic	75-2	43.65	43.05	43.60	43.43	0.76	ppb
Barium	135-1	2092.26	2092.73	2085.14	2090.04	0.20	ppb
Barium	137-1	2097.50	2085.26	2097.12	2093.29	0.33	ppb
Beryllium	9-1	48.38	49.07	48.89	48.78	0.74	ppb
Bismuth	209-1				109		%
Bismuth	209-2				105		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	44.55	45.55	45.22	45.11	1.13	ppb
Cadmium	106-1	44.68	43.05	43.65	43.79	1.88	ppb
Cadmium	111-1	49.49	50.32	50.69	50.17	1.23	ppb
Calcium	43-1	94458.42	95297.11	97495.25	95750.26	1.64	ppb
Calcium	44-1	95163.63	95552.80	96876.64	95864.36	0.94	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	209.27	210.02	208.72	209.34	0.31	ppb
Cobalt	59-2	511.19	514.81	520.69	515.56	0.93	ppb
Copper	63-2	245.50	248.27	247.92	247.23	0.61	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				111		%
Holmium	165-2				108		%
Indium	115-1				105		%
Indium	115-2				104		%
Iron	56-2	1044.56	1075.05	1060.56	1060.06	1.44	ppb
Iron	57-2	1469.70	1515.63	1501.42	1495.58	1.57	ppb
Iron	54-2	1163.70	1188.52	1194.12	1182.11	1.37	ppb
Krypton	83-1						cps

Reviewed By:Mohan
On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4832-03	Instrumnet Name :	P7
Client Sample ID :	E29S5S	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 12:18:35	DataFile Name :	051SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	20.37	20.18	20.63	20.39	1.10	ppb
Lead	207-1	19.67	19.72	19.80	19.73	0.33	ppb
Lead	208-1	20.01	19.93	20.16	20.03	0.56	ppb
Lithium	6-1				101		%
Magnesium	24-2	30124.65	30409.70	30575.60	30369.98	0.75	ppb
Manganese	55-2	506.80	515.14	521.51	514.49	1.43	ppb
Molybdenum	94-1	4.17	4.14	4.17	4.16	0.42	ppb
Molybdenum	95-1	4.91	4.98	5.05	4.98	1.47	ppb
Molybdenum	96-1	4.75	4.87	4.88	4.83	1.52	ppb
Molybdenum	97-1	4.98	4.98	5.16	5.04	2.03	ppb
Molybdenum	98-1	4.98	5.07	5.11	5.05	1.28	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	520.58	521.20	521.29	521.02	0.07	ppb
Phosphorus	31-2	769.25	793.30	784.99	782.51	1.56	ppb
Potassium	39-2	5072.25	5258.90	5246.46	5192.54	2.01	ppb
Rhodium	103-1				101		%
Rhodium	103-2				102		%
Scandium	45-1				101		%
Scandium	45-2				100		%
Selenium	82-1	103.80	103.74	105.68	104.41	1.06	ppb
Selenium	77-2	104.77	107.62	100.98	104.46	3.19	ppb
Selenium	78-2	106.28	105.45	105.52	105.75	0.43	ppb
Silicon	28-1	1353.11	1360.68	1372.32	1362.04	0.71	ppb
Silver	107-1	49.92	50.08	50.44	50.15	0.54	ppb
Silver	109-1	49.43	49.46	49.53	49.47	0.10	ppb
Sodium	23-2	80049.35	81174.86	82434.86	81219.69	1.47	ppb
Strontium	86-1	5058.86	5087.08	5217.24	5121.06	1.65	ppb
Strontium	88-1	5070.43	5055.35	5150.66	5092.15	1.01	ppb
Sulfur	34-1	12997.73	12852.82	12965.10	12938.55	0.59	ppb
Terbium	159-1				109		%
Terbium	159-2				107		%
Thallium	203-1	49.05	49.21	49.38	49.22	0.33	ppb
Thallium	205-1	51.36	50.37	51.74	51.16	1.38	ppb
Tin	118-1	0.00	-0.03	-0.02	-0.02		ppb
Titanium	47-1	0.50	0.49	0.52	0.50	3.12	ppb

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Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4832-03	Instrumnet Name :	P7
Client Sample ID :	E29S5S	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 12:18:35	DataFile Name :	051SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	0.70	0.70	0.71	0.70	0.32	ppb
Vanadium	51-2	518.17	522.83	515.78	518.92	0.69	ppb
Yttrium	89-1				105		%
Yttrium	89-2				104		%
Zinc	66-2	496.50	507.48	510.63	504.87	1.47	ppb
Zirconium	90-1	0.00	0.01	0.01	0.01	38.62	ppb
Zirconium	91-1	0.03	0.02	0.03	0.03	15.58	ppb

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Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4832-04	Instrumnet Name :	P7
Client Sample ID :	E29T3	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 12:21:34	DataFile Name :	052SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	0.49	0.79	0.77	0.68	24.28	ppb
Antimony	121-1	0.10	0.09	0.09	0.09	4.79	ppb
Arsenic	75-2	0.25	0.27	0.23	0.25	8.75	ppb
Barium	135-1	110.03	112.82	113.24	112.03	1.56	ppb
Barium	137-1	110.52	114.28	115.08	113.29	2.15	ppb
Beryllium	9-1	0.02	0.00	0.01	0.01	69.91	ppb
Bismuth	209-1				110		%
Bismuth	209-2				105		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	0.05	0.04	0.06	0.05	28.71	ppb
Cadmium	106-1	-0.33	-1.51	-1.59	-1.14		ppb
Cadmium	111-1	0.00	-0.08	-0.09	-0.06		ppb
Calcium	43-1	89048.24	93854.24	92436.27	91779.59	2.69	ppb
Calcium	44-1	88747.03	93388.24	92367.52	91500.93	2.67	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	-0.13	-0.16	-0.15	-0.15		ppb
Cobalt	59-2	1.49	1.48	1.50	1.49	0.74	ppb
Copper	63-2	0.72	0.67	0.70	0.70	3.59	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				112		%
Holmium	165-2				107		%
Indium	115-1				105		%
Indium	115-2				103		%
Iron	56-2	12.74	12.36	12.27	12.45	2.00	ppb
Iron	57-2	429.09	433.55	438.33	433.66	1.07	ppb
Iron	54-2	10.89	11.23	10.74	10.95	2.29	ppb
Krypton	83-1						cps

Reviewed By:Mohan
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Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4832-04	Instrumnet Name :	P7
Client Sample ID :	E29T3	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 12:21:34	DataFile Name :	052SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	-0.02	-0.02	-0.01	-0.01		ppb
Lead	207-1	-0.02	-0.01	0.00	-0.01		ppb
Lead	208-1	-0.02	-0.01	-0.01	-0.02		ppb
Lithium	6-1				102		%
Magnesium	24-2	27938.88	27429.00	27746.14	27704.67	0.93	ppb
Manganese	55-2	624.79	619.54	619.25	621.20	0.50	ppb
Molybdenum	94-1	3.06	3.21	3.28	3.18	3.49	ppb
Molybdenum	95-1	3.70	3.90	3.93	3.85	3.37	ppb
Molybdenum	96-1	3.55	3.87	3.96	3.80	5.66	ppb
Molybdenum	97-1	3.74	3.92	3.92	3.86	2.71	ppb
Molybdenum	98-1	3.72	3.98	3.99	3.90	3.95	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	2.59	2.69	2.71	2.66	2.34	ppb
Phosphorus	31-2	-15.24	-15.94	-12.57	-14.58		ppb
Potassium	39-2	6315.37	6160.74	6149.33	6208.48	1.49	ppb
Rhodium	103-1				103		%
Rhodium	103-2				101		%
Scandium	45-1				102		%
Scandium	45-2				101		%
Selenium	82-1	0.41	0.43	0.50	0.45	9.62	ppb
Selenium	77-2	0.28	0.55	0.37	0.40	34.62	ppb
Selenium	78-2	0.15	0.58	0.60	0.45	56.90	ppb
Silicon	28-1	1183.62	1271.32	1258.37	1237.77	3.82	ppb
Silver	107-1	0.02	0.02	0.01	0.02	25.58	ppb
Silver	109-1	0.02	0.01	0.01	0.02	27.71	ppb
Sodium	23-2	46731.61	45534.87	46124.78	46130.42	1.30	ppb
Strontium	86-1	3005.23	3184.41	3218.41	3136.01	3.65	ppb
Strontium	88-1	3104.77	3304.41	3309.34	3239.51	3.60	ppb
Sulfur	34-1	11950.96	12982.26	12937.06	12623.43	4.62	ppb
Terbium	159-1				109		%
Terbium	159-2				105		%
Thallium	203-1	0.10	0.10	0.09	0.10	4.54	ppb
Thallium	205-1	0.10	0.09	0.09	0.09	4.57	ppb
Tin	118-1	-0.09	-0.09	-0.08	-0.09		ppb
Titanium	47-1	0.19	0.22	0.20	0.21	7.24	ppb

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On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4832-04	Instrumnet Name :	P7
Client Sample ID :	E29T3	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 12:21:34	DataFile Name :	052SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	0.79	0.81	0.82	0.81	2.22	ppb
Vanadium	51-2	0.09	0.09	0.08	0.09	7.01	ppb
Yttrium	89-1				106		%
Yttrium	89-2				103		%
Zinc	66-2	-1.48	-1.40	-1.62	-1.50		ppb
Zirconium	90-1	0.01	0.00	0.01	0.01	28.04	ppb
Zirconium	91-1	0.00	0.01	0.01	0.01	58.98	ppb

Reviewed By:Mohan
On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4832-05	Instrumnet Name :	P7
Client Sample ID :	E29T5	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 12:24:57	DataFile Name :	053SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	0.99	0.73	1.09	0.94	19.45	ppb
Antimony	121-1	0.01	0.01	0.01	0.01	7.57	ppb
Arsenic	75-2	2.97	2.96	2.76	2.89	4.12	ppb
Barium	135-1	101.11	103.78	104.74	103.21	1.82	ppb
Barium	137-1	102.60	104.55	106.11	104.42	1.68	ppb
Beryllium	9-1	0.00	0.02	0.00	0.01	135.93	ppb
Bismuth	209-1				108		%
Bismuth	209-2				105		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	0.04	-0.01	0.04	0.03	111.27	ppb
Cadmium	106-1	-1.53	-1.69	-1.43	-1.55		ppb
Cadmium	111-1	-0.11	-0.12	-0.10	-0.11		ppb
Calcium	43-1	116783.78	118306.17	118768.76	117952.90	0.88	ppb
Calcium	44-1	116769.27	119935.11	119624.23	118776.20	1.47	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	-0.18	-0.17	-0.15	-0.17		ppb
Cobalt	59-2	0.27	0.26	0.27	0.27	0.77	ppb
Copper	63-2	0.13	0.13	0.15	0.14	9.17	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				110		%
Holmium	165-2				108		%
Indium	115-1				104		%
Indium	115-2				103		%
Iron	56-2	1716.86	1710.35	1718.37	1715.19	0.25	ppb
Iron	57-2	2216.21	2229.56	2261.19	2235.65	1.03	ppb
Iron	54-2	1694.50	1677.55	1696.94	1689.66	0.63	ppb
Krypton	83-1						cps

Reviewed By:Mohan
On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4832-05	Instrumnet Name :	P7
Client Sample ID :	E29T5	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 12:24:57	DataFile Name :	053SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	-0.02	-0.02	-0.03	-0.02		ppb
Lead	207-1	-0.02	-0.02	-0.02	-0.02		ppb
Lead	208-1	-0.02	-0.02	-0.02	-0.02		ppb
Lithium	6-1				101		%
Magnesium	24-2	49058.81	49449.51	49561.13	49356.48	0.53	ppb
Manganese	55-2	96.72	97.89	98.51	97.71	0.93	ppb
Molybdenum	94-1	2.54	2.59	2.57	2.56	0.87	ppb
Molybdenum	95-1	3.03	3.14	3.10	3.09	1.78	ppb
Molybdenum	96-1	2.93	3.07	3.06	3.02	2.64	ppb
Molybdenum	97-1	3.06	3.18	3.16	3.13	2.06	ppb
Molybdenum	98-1	3.04	3.18	3.08	3.10	2.34	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	2.88	2.92	3.05	2.95	3.06	ppb
Phosphorus	31-2	-15.22	-15.63	-17.95	-16.27		ppb
Potassium	39-2	2489.14	2507.61	2499.85	2498.87	0.37	ppb
Rhodium	103-1				101		%
Rhodium	103-2				101		%
Scandium	45-1				102		%
Scandium	45-2				100		%
Selenium	82-1	-0.02	-0.04	-0.37	-0.14		ppb
Selenium	77-2	0.00	0.00	0.18	0.06	173.21	ppb
Selenium	78-2	0.14	-0.04	-0.26	-0.06		ppb
Silicon	28-1	1612.63	1643.98	1645.47	1634.03	1.13	ppb
Silver	107-1	0.00	0.00	0.00	0.00	25.69	ppb
Silver	109-1	0.00	0.01	0.01	0.00	15.25	ppb
Sodium	23-2	60414.72	60913.78	61221.79	60850.10	0.67	ppb
Strontium	86-1	3028.89	3111.09	3084.78	3074.92	1.37	ppb
Strontium	88-1	3150.69	3195.13	3178.75	3174.85	0.71	ppb
Sulfur	34-1	21265.20	21666.21	21969.63	21633.68	1.63	ppb
Terbium	159-1				109		%
Terbium	159-2				106		%
Thallium	203-1	0.03	0.03	0.02	0.03	11.92	ppb
Thallium	205-1	0.02	0.03	0.03	0.03	6.72	ppb
Tin	118-1	-0.13	-0.13	-0.12	-0.13		ppb
Titanium	47-1	0.24	0.29	0.28	0.27	11.53	ppb

Reviewed By:Mohan
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Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4832-05	Instrumnet Name :	P7
Client Sample ID :	E29T5	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 12:24:57	DataFile Name :	053SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	1.18	1.20	1.21	1.20	1.09	ppb
Vanadium	51-2	0.02	0.02	0.02	0.02	8.57	ppb
Yttrium	89-1				105		%
Yttrium	89-2				104		%
Zinc	66-2	-2.05	-1.89	-2.12	-2.02		ppb
Zirconium	90-1	0.03	0.03	0.03	0.03	9.66	ppb
Zirconium	91-1	0.02	0.03	0.03	0.03	19.43	ppb

Reviewed By:Mohan
On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4832-06	Instrumnet Name :	P7
Client Sample ID :	E29R7	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 12:28:08	DataFile Name :	054SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	1.99	2.13	2.31	2.14	7.54	ppb
Antimony	121-1	0.00	0.00	0.01	0.00	13.28	ppb
Arsenic	75-2	0.43	0.43	0.59	0.48	19.48	ppb
Barium	135-1	55.36	55.94	56.89	56.07	1.38	ppb
Barium	137-1	56.02	56.06	57.45	56.51	1.44	ppb
Beryllium	9-1	0.00	0.01	0.00	0.00	183.31	ppb
Bismuth	209-1				110		%
Bismuth	209-2				101		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	0.04	0.03	0.03	0.04	18.11	ppb
Cadmium	106-1	-0.98	-1.11	-1.38	-1.16		ppb
Cadmium	111-1	-0.06	-0.08	-0.10	-0.08		ppb
Calcium	43-1	90719.86	94113.40	93026.51	92619.92	1.87	ppb
Calcium	44-1	90700.51	93252.96	91758.02	91903.83	1.40	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	-0.13	-0.14	-0.08	-0.12		ppb
Cobalt	59-2	0.58	0.59	0.70	0.62	11.17	ppb
Copper	63-2	0.08	0.08	0.13	0.10	32.55	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				110		%
Holmium	165-2				103		%
Indium	115-1				105		%
Indium	115-2				98		%
Iron	56-2	218.65	226.21	259.31	234.72	9.21	ppb
Iron	57-2	625.28	641.59	758.43	675.10	10.76	ppb
Iron	54-2	216.19	220.96	255.29	230.81	9.24	ppb
Krypton	83-1						cps

Reviewed By:Mohan
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Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4832-06	Instrumnet Name :	P7
Client Sample ID :	E29R7	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 12:28:08	DataFile Name :	054SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	0.09	0.09	0.11	0.10	12.45	ppb
Lead	207-1	0.08	0.08	0.10	0.09	12.29	ppb
Lead	208-1	0.09	0.09	0.10	0.09	5.25	ppb
Lithium	6-1				101		%
Magnesium	24-2	39990.88	41048.65	47189.64	42743.06	9.09	ppb
Manganese	55-2	360.56	374.43	426.14	387.05	8.93	ppb
Molybdenum	94-1	5.25	5.37	5.39	5.34	1.46	ppb
Molybdenum	95-1	6.33	6.40	6.37	6.37	0.56	ppb
Molybdenum	96-1	6.22	6.34	6.24	6.26	1.02	ppb
Molybdenum	97-1	6.31	6.48	6.56	6.45	1.96	ppb
Molybdenum	98-1	6.44	6.45	6.53	6.48	0.71	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.30	0.41	0.46	0.39	20.65	ppb
Phosphorus	31-2	-17.32	-15.04	-13.76	-15.37		ppb
Potassium	39-2	1417.13	1455.84	1681.69	1518.22	9.41	ppb
Rhodium	103-1				100		%
Rhodium	103-2				96		%
Scandium	45-1				100		%
Scandium	45-2				95		%
Selenium	82-1	0.05	0.14	-0.17	0.01	1633.39	ppb
Selenium	77-2	0.00	0.10	0.00	0.03	173.21	ppb
Selenium	78-2	-0.02	-0.18	0.94	0.25	242.76	ppb
Silicon	28-1	1471.77	1479.68	1485.64	1479.03	0.47	ppb
Silver	107-1	0.00	0.00	0.00	0.00	37.76	ppb
Silver	109-1	0.00	0.00	0.00	0.00	68.25	ppb
Sodium	23-2	14679.81	15362.18	17687.06	15909.68	9.91	ppb
Strontium	86-1	69586.80	70280.55	70163.60	70010.32	0.53	ppb
Strontium	88-1	69685.66	69645.02	69782.46	69704.38	0.10	ppb
Sulfur	34-1	13404.16	13693.81	13480.85	13526.27	1.11	ppb
Terbium	159-1				109		%
Terbium	159-2				101		%
Thallium	203-1	0.02	0.02	0.02	0.02	6.81	ppb
Thallium	205-1	0.02	0.02	0.02	0.02	6.70	ppb
Tin	118-1	-0.11	-0.11	-0.10	-0.10		ppb
Titanium	47-1	0.28	0.28	1.42	0.66	99.68	ppb

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Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4832-06	Instrumnet Name :	P7
Client Sample ID :	E29R7	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 12:28:08	DataFile Name :	054SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	1.36	1.39	1.41	1.39	1.80	ppb
Vanadium	51-2	0.02	0.02	0.03	0.02	30.68	ppb
Yttrium	89-1				104		%
Yttrium	89-2				98		%
Zinc	66-2	0.21	0.13	1.47	0.60	124.53	ppb
Zirconium	90-1	0.03	0.04	0.04	0.04	11.64	ppb
Zirconium	91-1	0.03	0.04	0.05	0.04	21.89	ppb

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Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4832-07	Instrumnet Name :	P7
Client Sample ID :	E29S1	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 12:31:18	DataFile Name :	055SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	0.65	0.75	0.69	0.70	7.40	ppb
Antimony	121-1	0.04	0.04	0.04	0.04	5.09	ppb
Arsenic	75-2	0.53	0.57	0.52	0.54	4.20	ppb
Barium	135-1	185.26	188.11	187.92	187.10	0.85	ppb
Barium	137-1	192.24	194.51	192.13	192.96	0.70	ppb
Beryllium	9-1	0.01	0.01	0.00	0.01	63.36	ppb
Bismuth	209-1				111		%
Bismuth	209-2				107		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	0.08	0.02	-0.01	0.03	163.15	ppb
Cadmium	106-1	-0.83	-1.13	-1.61	-1.19		ppb
Cadmium	111-1	-0.06	-0.07	-0.11	-0.08		ppb
Calcium	43-1	98186.91	99063.65	96852.38	98034.31	1.14	ppb
Calcium	44-1	97713.52	98680.19	96206.23	97533.31	1.28	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	-0.06	-0.08	-0.04	-0.06		ppb
Cobalt	59-2	0.21	0.20	0.22	0.21	2.93	ppb
Copper	63-2	0.78	0.82	0.79	0.80	2.39	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				110		%
Holmium	165-2				108		%
Indium	115-1				104		%
Indium	115-2				103		%
Iron	56-2	99.79	100.05	101.88	100.57	1.13	ppb
Iron	57-2	531.51	537.55	557.49	542.19	2.51	ppb
Iron	54-2	97.31	98.82	99.41	98.51	1.10	ppb
Krypton	83-1						cps

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Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4832-07	Instrumnet Name :	P7
Client Sample ID :	E29S1	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 12:31:18	DataFile Name :	055SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	-0.03	-0.01	-0.01	-0.02		ppb
Lead	207-1	-0.02	-0.01	-0.03	-0.02		ppb
Lead	208-1	-0.03	-0.02	-0.02	-0.02		ppb
Lithium	6-1				102		%
Magnesium	24-2	36574.98	36955.68	38114.85	37215.17	2.16	ppb
Manganese	55-2	109.93	110.24	113.10	111.09	1.58	ppb
Molybdenum	94-1	2.33	2.31	2.32	2.32	0.27	ppb
Molybdenum	95-1	2.84	2.83	2.79	2.82	1.07	ppb
Molybdenum	96-1	2.70	2.78	2.71	2.73	1.68	ppb
Molybdenum	97-1	2.85	2.82	2.81	2.82	0.65	ppb
Molybdenum	98-1	2.86	2.85	2.82	2.84	0.78	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.97	1.00	1.10	1.02	6.34	ppb
Phosphorus	31-2	-18.38	-17.26	-19.11	-18.25		ppb
Potassium	39-2	1670.15	1697.78	1715.90	1694.61	1.36	ppb
Rhodium	103-1				101		%
Rhodium	103-2				102		%
Scandium	45-1				100		%
Scandium	45-2				101		%
Selenium	82-1	1.13	1.12	0.78	1.01	19.98	ppb
Selenium	77-2	0.91	1.09	0.74	0.92	19.34	ppb
Selenium	78-2	0.49	0.81	0.85	0.72	27.43	ppb
Silicon	28-1	1167.93	1182.93	1161.75	1170.87	0.93	ppb
Silver	107-1	0.00	0.00	0.00	0.00	31.53	ppb
Silver	109-1	0.00	0.00	0.00	0.00	35.18	ppb
Sodium	23-2	15597.47	15810.19	16217.93	15875.20	1.99	ppb
Strontium	86-1	6278.74	6220.34	6196.19	6231.76	0.68	ppb
Strontium	88-1	6182.38	6157.57	6103.93	6147.96	0.65	ppb
Sulfur	34-1	9407.16	9315.17	9247.54	9323.29	0.86	ppb
Terbium	159-1				109		%
Terbium	159-2				107		%
Thallium	203-1	0.03	0.03	0.04	0.03	12.30	ppb
Thallium	205-1	0.04	0.03	0.03	0.03	5.09	ppb
Tin	118-1	-0.12	-0.10	-0.11	-0.11		ppb
Titanium	47-1	0.22	0.20	0.20	0.21	4.33	ppb

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Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4832-07	Instrumnet Name :	P7
Client Sample ID :	E29S1	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 12:31:18	DataFile Name :	055SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	1.33	1.31	1.35	1.33	1.44	ppb
Vanadium	51-2	0.04	0.05	0.05	0.05	7.59	ppb
Yttrium	89-1				103		%
Yttrium	89-2				103		%
Zinc	66-2	-1.29	-1.18	-1.02	-1.16		ppb
Zirconium	90-1	0.01	0.01	0.00	0.01	24.53	ppb
Zirconium	91-1	0.01	0.01	0.01	0.01	18.55	ppb

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Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4832-08	Instrumnet Name :	P7
Client Sample ID :	E29S3	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 12:34:27	DataFile Name :	056SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	1.24	1.40	1.51	1.38	9.70	ppb
Antimony	121-1	0.00	0.00	0.00	0.00	15.36	ppb
Arsenic	75-2	0.45	0.51	0.38	0.45	14.46	ppb
Barium	135-1	57.52	55.53	55.73	56.26	1.95	ppb
Barium	137-1	58.16	55.98	55.80	56.65	2.31	ppb
Beryllium	9-1	-0.01	0.01	0.00	0.00		ppb
Bismuth	209-1				109		%
Bismuth	209-2				108		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	0.05	-0.01	0.07	0.03	124.51	ppb
Cadmium	106-1	-1.10	-0.82	-1.45	-1.12		ppb
Cadmium	111-1	-0.08	-0.06	-0.10	-0.08		ppb
Calcium	43-1	96489.89	90260.84	93565.37	93438.70	3.34	ppb
Calcium	44-1	94617.01	90279.81	91222.98	92039.93	2.48	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	-0.11	-0.17	-0.13	-0.13		ppb
Cobalt	59-2	0.54	0.55	0.56	0.55	2.08	ppb
Copper	63-2	0.20	0.20	0.20	0.20	1.79	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				108		%
Holmium	165-2				109		%
Indium	115-1				102		%
Indium	115-2				104		%
Iron	56-2	213.50	212.24	219.88	215.21	1.90	ppb
Iron	57-2	601.61	609.43	629.21	613.42	2.32	ppb
Iron	54-2	210.27	209.39	211.71	210.46	0.56	ppb
Krypton	83-1						cps

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Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4832-08	Instrumnet Name :	P7
Client Sample ID :	E29S3	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 12:34:27	DataFile Name :	056SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	-0.02	-0.03	-0.03	-0.03		ppb
Lead	207-1	-0.02	-0.03	-0.03	-0.02		ppb
Lead	208-1	-0.02	-0.03	-0.03	-0.03		ppb
Lithium	6-1				104		%
Magnesium	24-2	39562.35	39503.37	40173.12	39746.28	0.93	ppb
Manganese	55-2	357.83	359.24	366.49	361.19	1.29	ppb
Molybdenum	94-1	5.44	5.21	5.18	5.28	2.72	ppb
Molybdenum	95-1	6.43	6.30	6.26	6.33	1.44	ppb
Molybdenum	96-1	6.33	6.15	6.10	6.19	2.01	ppb
Molybdenum	97-1	6.54	6.37	6.38	6.43	1.48	ppb
Molybdenum	98-1	6.51	6.31	6.34	6.39	1.65	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.43	0.42	0.41	0.42	1.88	ppb
Phosphorus	31-2	-19.22	-17.49	-17.12	-17.94		ppb
Potassium	39-2	1394.23	1335.39	1394.28	1374.63	2.47	ppb
Rhodium	103-1				98		%
Rhodium	103-2				103		%
Scandium	45-1				98		%
Scandium	45-2				100		%
Selenium	82-1	0.27	-0.01	0.03	0.10	158.16	ppb
Selenium	77-2	0.00	0.27	0.00	0.09	173.21	ppb
Selenium	78-2	0.76	0.91	0.33	0.67	44.53	ppb
Silicon	28-1	1540.60	1483.54	1477.02	1500.39	2.33	ppb
Silver	107-1	0.00	0.01	0.00	0.00	48.39	ppb
Silver	109-1	0.00	0.00	0.00	0.00	51.59	ppb
Sodium	23-2	14613.70	14454.67	14995.95	14688.11	1.89	ppb
Strontium	86-1	71079.80	68718.03	69138.09	69645.30	1.81	ppb
Strontium	88-1	70846.54	68995.98	69041.42	69627.98	1.52	ppb
Sulfur	34-1	14227.37	13316.33	13486.29	13676.66	3.54	ppb
Terbium	159-1				106		%
Terbium	159-2				108		%
Thallium	203-1	0.02	0.02	0.02	0.02	9.45	ppb
Thallium	205-1	0.02	0.02	0.02	0.02	6.32	ppb
Tin	118-1	-0.10	-0.11	-0.11	-0.11		ppb
Titanium	47-1	0.26	0.27	0.22	0.25	12.14	ppb

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On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4832-08	Instrumnet Name :	P7
Client Sample ID :	E29S3	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 12:34:27	DataFile Name :	056SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	1.43	1.38	1.35	1.39	3.06	ppb
Vanadium	51-2	0.02	0.02	0.02	0.02	14.08	ppb
Yttrium	89-1				103		%
Yttrium	89-2				103		%
Zinc	66-2	-1.90	-2.02	-1.97	-1.96		ppb
Zirconium	90-1	0.01	0.01	0.01	0.01	7.02	ppb
Zirconium	91-1	0.01	0.02	0.03	0.02	54.69	ppb

Reviewed By:Mohan
On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4832-09	Instrumnet Name :	P7
Client Sample ID :	E29S7	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 12:37:35	DataFile Name :	057SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	0.91	0.71	0.58	0.73	22.17	ppb
Antimony	121-1	0.85	0.91	0.94	0.90	5.01	ppb
Arsenic	75-2	3.47	3.46	3.60	3.51	2.23	ppb
Barium	135-1	128.75	135.84	138.58	134.39	3.77	ppb
Barium	137-1	130.93	137.03	140.81	136.25	3.66	ppb
Beryllium	9-1	0.01	0.00	0.00	0.00	93.94	ppb
Bismuth	209-1				114		%
Bismuth	209-2				108		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	0.11	0.04	0.04	0.06	61.40	ppb
Cadmium	106-1	-0.82	-1.03	-1.54	-1.13		ppb
Cadmium	111-1	-0.05	-0.07	-0.10	-0.07		ppb
Calcium	43-1	103021.29	109843.14	109032.99	107299.14	3.47	ppb
Calcium	44-1	102878.33	109296.27	109186.27	107120.29	3.43	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	-0.19	-0.22	-0.20	-0.20		ppb
Cobalt	59-2	1.19	1.21	1.18	1.19	1.32	ppb
Copper	63-2	0.26	0.23	0.25	0.25	6.56	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				115		%
Holmium	165-2				109		%
Indium	115-1				109		%
Indium	115-2				104		%
Iron	56-2	1016.75	997.35	965.63	993.25	2.60	ppb
Iron	57-2	1507.24	1486.42	1480.27	1491.31	0.95	ppb
Iron	54-2	996.93	993.11	979.54	989.86	0.92	ppb
Krypton	83-1						cps

Reviewed By:Mohan
On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4832-09	Instrumnet Name :	P7
Client Sample ID :	E29S7	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 12:37:35	DataFile Name :	057SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	-0.01	0.00	0.00	0.00		ppb
Lead	207-1	-0.01	0.00	0.00	0.00		ppb
Lead	208-1	-0.01	0.00	0.00	0.00		ppb
Lithium	6-1				108		%
Magnesium	24-2	46766.92	46541.51	45089.74	46132.72	1.97	ppb
Manganese	55-2	309.60	306.37	296.65	304.21	2.22	ppb
Molybdenum	94-1	10.70	11.56	11.51	11.26	4.28	ppb
Molybdenum	95-1	12.88	13.91	14.10	13.63	4.83	ppb
Molybdenum	96-1	12.66	13.60	13.84	13.37	4.66	ppb
Molybdenum	97-1	13.03	13.81	14.09	13.64	4.02	ppb
Molybdenum	98-1	13.11	14.11	14.25	13.82	4.49	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	2.40	2.41	2.36	2.39	1.17	ppb
Phosphorus	31-2	-10.49	-12.27	-12.25	-11.67		ppb
Potassium	39-2	2126.37	2091.21	2061.62	2093.06	1.55	ppb
Rhodium	103-1				104		%
Rhodium	103-2				103		%
Scandium	45-1				104		%
Scandium	45-2				99		%
Selenium	82-1	0.06	0.28	-0.10	0.08	235.61	ppb
Selenium	77-2	0.00	0.00	0.09	0.03	173.21	ppb
Selenium	78-2	-0.23	-0.11	-0.63	-0.32		ppb
Silicon	28-1	1509.16	1632.47	1591.42	1577.68	3.98	ppb
Silver	107-1	0.00	0.00	0.00	0.00	13.22	ppb
Silver	109-1	0.00	0.00	0.00	0.00	63.49	ppb
Sodium	23-2	15419.21	15295.12	14919.64	15211.32	1.71	ppb
Strontium	86-1	5614.83	5987.87	6031.41	5878.04	3.90	ppb
Strontium	88-1	5665.35	6049.83	6055.58	5923.58	3.78	ppb
Sulfur	34-1	25068.80	26600.23	26646.32	26105.12	3.44	ppb
Terbium	159-1				112		%
Terbium	159-2				108		%
Thallium	203-1	0.01	0.01	0.01	0.01	4.07	ppb
Thallium	205-1	0.01	0.01	0.01	0.01	6.78	ppb
Tin	118-1	-0.12	-0.11	-0.10	-0.11		ppb
Titanium	47-1	0.26	0.32	0.26	0.28	11.82	ppb

Reviewed By:Mohan
On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4832-09	Instrumnet Name :	P7
Client Sample ID :	E29S7	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 12:37:35	DataFile Name :	057SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	1.14	1.21	1.21	1.18	3.28	ppb
Vanadium	51-2	0.17	0.15	0.16	0.16	4.73	ppb
Yttrium	89-1				107		%
Yttrium	89-2				103		%
Zinc	66-2	-1.77	-1.86	-1.82	-1.82		ppb
Zirconium	90-1	0.01	0.02	0.03	0.02	37.88	ppb
Zirconium	91-1	0.01	0.02	0.02	0.02	36.35	ppb

Reviewed By:Mohan
On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4879-01	Instrumnet Name :	P7
Client Sample ID :	E29X1	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 12:40:45	DataFile Name :	058SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	1424.50	1376.33	1414.15	1404.99	1.80	ppb
Antimony	121-1	0.14	0.16	0.15	0.15	5.62	ppb
Arsenic	75-2	4.23	4.40	4.52	4.38	3.36	ppb
Barium	135-1	30.28	30.07	30.20	30.18	0.35	ppb
Barium	137-1	30.42	30.39	30.73	30.52	0.62	ppb
Beryllium	9-1	0.14	0.17	0.17	0.16	9.26	ppb
Bismuth	209-1				108		%
Bismuth	209-2				104		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	0.22	0.31	0.25	0.26	18.87	ppb
Cadmium	106-1	0.38	0.63	-0.44	0.19	295.83	ppb
Cadmium	111-1	0.19	0.22	0.15	0.19	18.73	ppb
Calcium	43-1	310915.94	302575.88	310733.04	308074.95	1.55	ppb
Calcium	44-1	313905.19	305132.93	312102.99	310380.37	1.49	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	5.69	5.66	5.87	5.74	1.97	ppb
Cobalt	59-2	3.30	3.26	3.31	3.29	0.80	ppb
Copper	63-2	6.89	6.78	6.95	6.87	1.29	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				111		%
Holmium	165-2				109		%
Indium	115-1				103		%
Indium	115-2				103		%
Iron	56-2	8791.08	8543.69	8790.86	8708.54	1.64	ppb
Iron	57-2	10237.54	10122.77	10382.93	10247.75	1.27	ppb
Iron	54-2	8585.74	8514.19	8779.14	8626.36	1.59	ppb
Krypton	83-1						cps

Reviewed By:Mohan
On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4879-01	Instrumnet Name :	P7
Client Sample ID :	E29X1	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 12:40:45	DataFile Name :	058SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	277.03	277.61	277.63	277.42	0.12	ppb
Lead	207-1	267.70	272.41	273.71	271.27	1.16	ppb
Lead	208-1	272.32	272.64	274.25	273.07	0.38	ppb
Lithium	6-1				99		%
Magnesium	24-2	114378.44	113063.58	116760.14	114734.05	1.63	ppb
Manganese	55-2	563.97	551.25	576.97	564.06	2.28	ppb
Molybdenum	94-1	1.91	1.93	1.88	1.91	1.23	ppb
Molybdenum	95-1	0.69	0.71	0.70	0.70	0.98	ppb
Molybdenum	96-1	0.85	0.84	0.87	0.86	1.79	ppb
Molybdenum	97-1	0.68	0.70	0.71	0.70	2.25	ppb
Molybdenum	98-1	0.68	0.70	0.69	0.69	1.15	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	6.37	6.12	6.39	6.30	2.39	ppb
Phosphorus	31-2	352.16	357.24	362.08	357.16	1.39	ppb
Potassium	39-2	329.56	324.81	332.16	328.85	1.13	ppb
Rhodium	103-1				100		%
Rhodium	103-2				103		%
Scandium	45-1				101		%
Scandium	45-2				103		%
Selenium	82-1	0.56	0.61	0.39	0.52	21.54	ppb
Selenium	77-2	3.97	4.16	3.38	3.84	10.54	ppb
Selenium	78-2	0.99	1.16	0.70	0.95	24.15	ppb
Silicon	28-1	276.67	274.61	272.11	274.46	0.83	ppb
Silver	107-1	0.06	0.07	0.08	0.07	13.45	ppb
Silver	109-1	0.06	0.07	0.09	0.07	17.22	ppb
Sodium	23-2	336.10	336.06	350.83	341.00	2.50	ppb
Strontium	86-1	4925.77	4924.67	4953.57	4934.67	0.33	ppb
Strontium	88-1	4882.70	4953.30	4927.20	4921.07	0.73	ppb
Sulfur	34-1	1032.29	970.82	957.97	987.02	4.02	ppb
Terbium	159-1				110		%
Terbium	159-2				106		%
Thallium	203-1	0.12	0.18	0.21	0.17	26.71	ppb
Thallium	205-1	0.12	0.18	0.22	0.17	30.66	ppb
Tin	118-1	0.15	0.17	0.18	0.17	9.80	ppb
Titanium	47-1	18.40	19.31	18.52	18.74	2.64	ppb

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Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4879-01	Instrumnet Name :	P7
Client Sample ID :	E29X1	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 12:40:45	DataFile Name :	058SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	1.33	1.31	1.34	1.33	0.99	ppb
Vanadium	51-2	7.89	7.92	7.93	7.91	0.29	ppb
Yttrium	89-1				106		%
Yttrium	89-2				107		%
Zinc	66-2	72.51	71.97	72.42	72.30	0.40	ppb
Zirconium	90-1	0.74	0.75	0.76	0.75	1.27	ppb
Zirconium	91-1	0.72	0.73	0.77	0.74	3.43	ppb

Reviewed By:Mohan
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Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4879-02	Instrumnet Name :	P7
Client Sample ID :	E29X2	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 12:43:52	DataFile Name :	059SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	1120.86	1082.36	1106.43	1103.21	1.76	ppb
Antimony	121-1	0.08	0.08	0.08	0.08	1.66	ppb
Arsenic	75-2	4.69	4.74	4.83	4.76	1.52	ppb
Barium	135-1	42.72	42.80	42.91	42.81	0.22	ppb
Barium	137-1	42.97	43.16	43.85	43.33	1.07	ppb
Beryllium	9-1	0.18	0.17	0.14	0.16	9.74	ppb
Bismuth	209-1				108		%
Bismuth	209-2				103		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	0.16	0.20	0.24	0.20	20.38	ppb
Cadmium	106-1	0.43	0.09	-0.15	0.12	242.91	ppb
Cadmium	111-1	0.17	0.16	0.13	0.15	11.85	ppb
Calcium	43-1	331693.15	329296.26	318512.96	326500.79	2.15	ppb
Calcium	44-1	329553.70	333671.51	323734.31	328986.51	1.52	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	4.54	4.46	4.56	4.52	1.14	ppb
Cobalt	59-2	3.40	3.37	3.47	3.42	1.55	ppb
Copper	63-2	6.52	6.60	6.94	6.69	3.29	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				113		%
Holmium	165-2				110		%
Indium	115-1				106		%
Indium	115-2				104		%
Iron	56-2	7762.27	7791.77	7907.22	7820.42	0.98	ppb
Iron	57-2	9588.33	9543.34	9707.21	9612.96	0.88	ppb
Iron	54-2	7782.75	7718.84	7832.34	7777.98	0.73	ppb
Krypton	83-1						cps

Reviewed By:Mohan
On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4879-02	Instrumnet Name :	P7
Client Sample ID :	E29X2	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 12:43:52	DataFile Name :	059SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	6.99	6.90	7.01	6.97	0.87	ppb
Lead	207-1	6.23	6.20	6.27	6.23	0.55	ppb
Lead	208-1	6.49	6.42	6.51	6.47	0.73	ppb
Lithium	6-1				95		%
Magnesium	24-2	135790.51	133995.90	137939.94	135908.78	1.45	ppb
Manganese	55-2	577.89	576.47	584.92	579.76	0.78	ppb
Molybdenum	94-1	1.27	1.25	1.30	1.27	2.28	ppb
Molybdenum	95-1	0.60	0.57	0.61	0.59	3.33	ppb
Molybdenum	96-1	0.69	0.70	0.71	0.70	1.50	ppb
Molybdenum	97-1	0.58	0.58	0.58	0.58	0.46	ppb
Molybdenum	98-1	0.60	0.61	0.60	0.60	0.84	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	5.83	5.71	5.94	5.83	1.97	ppb
Phosphorus	31-2	488.45	478.66	485.14	484.08	1.03	ppb
Potassium	39-2	323.11	315.22	325.65	321.33	1.69	ppb
Rhodium	103-1				103		%
Rhodium	103-2				103		%
Scandium	45-1				105		%
Scandium	45-2				105		%
Selenium	82-1	0.57	0.42	0.45	0.48	16.79	ppb
Selenium	77-2	4.61	3.92	3.75	4.09	11.06	ppb
Selenium	78-2	0.86	0.51	1.09	0.82	36.04	ppb
Silicon	28-1	231.54	232.59	236.87	233.67	1.21	ppb
Silver	107-1	0.05	0.06	0.07	0.06	20.32	ppb
Silver	109-1	0.06	0.06	0.07	0.06	7.25	ppb
Sodium	23-2	387.00	378.65	394.02	386.56	1.99	ppb
Strontium	86-1	6578.22	6608.66	6730.84	6639.24	1.22	ppb
Strontium	88-1	6635.36	6632.01	6616.44	6627.94	0.15	ppb
Sulfur	34-1	1084.79	1071.19	957.96	1037.98	6.71	ppb
Terbium	159-1				111		%
Terbium	159-2				108		%
Thallium	203-1	0.11	0.13	0.13	0.12	10.98	ppb
Thallium	205-1	0.12	0.13	0.14	0.13	7.01	ppb
Tin	118-1	0.12	0.10	0.11	0.11	9.07	ppb
Titanium	47-1	19.09	19.26	18.73	19.02	1.41	ppb

Reviewed By:Mohan
On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4879-02	Instrumnet Name :	P7
Client Sample ID :	E29X2	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 12:43:52	DataFile Name :	059SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	1.29	1.29	1.27	1.28	0.60	ppb
Vanadium	51-2	7.62	7.55	7.84	7.67	1.96	ppb
Yttrium	89-1				111		%
Yttrium	89-2				109		%
Zinc	66-2	20.81	20.26	21.32	20.80	2.55	ppb
Zirconium	90-1	0.46	0.45	0.45	0.45	0.43	ppb
Zirconium	91-1	0.46	0.46	0.47	0.46	1.46	ppb

Reviewed By:Mohan
On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4879-03	Instrumnet Name :	P7
Client Sample ID :	E29X3	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 12:47:03	DataFile Name :	060SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	1280.54	1287.22	1306.42	1291.39	1.04	ppb
Antimony	121-1	0.08	0.09	0.09	0.09	6.37	ppb
Arsenic	75-2	5.12	5.18	5.23	5.18	0.98	ppb
Barium	135-1	28.74	31.72	29.72	30.06	5.06	ppb
Barium	137-1	28.98	31.94	29.86	30.26	5.02	ppb
Beryllium	9-1	0.18	0.22	0.20	0.20	10.60	ppb
Bismuth	209-1				105		%
Bismuth	209-2				103		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	0.19	0.18	0.17	0.18	6.88	ppb
Cadmium	106-1	-0.07	0.27	-0.24	-0.01		ppb
Cadmium	111-1	0.13	0.18	0.13	0.15	18.59	ppb
Calcium	43-1	295626.83	315878.59	303459.87	304988.43	3.35	ppb
Calcium	44-1	294575.21	314221.93	299956.53	302917.89	3.35	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	3.72	3.76	3.81	3.76	1.12	ppb
Cobalt	59-2	3.17	3.19	3.34	3.23	2.89	ppb
Copper	63-2	6.81	6.86	6.88	6.85	0.56	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				111		%
Holmium	165-2				109		%
Indium	115-1				105		%
Indium	115-2				105		%
Iron	56-2	8583.75	8658.27	8655.06	8632.36	0.49	ppb
Iron	57-2	10144.34	10018.62	10164.21	10109.06	0.78	ppb
Iron	54-2	8408.04	8493.63	8453.29	8451.65	0.51	ppb
Krypton	83-1						cps

Reviewed By:Mohan
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Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4879-03	Instrumnet Name :	P7
Client Sample ID :	E29X3	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 12:47:03	DataFile Name :	060SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	8.10	8.68	8.35	8.38	3.50	ppb
Lead	207-1	7.12	7.71	7.29	7.38	4.13	ppb
Lead	208-1	7.47	8.04	7.59	7.70	3.95	ppb
Lithium	6-1				92		%
Magnesium	24-2	118608.29	120551.71	119809.19	119656.40	0.82	ppb
Manganese	55-2	474.59	480.77	477.59	477.65	0.65	ppb
Molybdenum	94-1	1.72	1.86	1.71	1.76	4.81	ppb
Molybdenum	95-1	0.78	0.85	0.77	0.80	5.30	ppb
Molybdenum	96-1	0.91	1.01	0.94	0.95	5.43	ppb
Molybdenum	97-1	0.79	0.84	0.80	0.81	3.16	ppb
Molybdenum	98-1	0.76	0.81	0.78	0.79	3.00	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	5.51	5.59	5.84	5.65	3.00	ppb
Phosphorus	31-2	287.26	289.12	293.74	290.04	1.15	ppb
Potassium	39-2	344.79	341.93	347.08	344.60	0.75	ppb
Rhodium	103-1				101		%
Rhodium	103-2				104		%
Scandium	45-1				103		%
Scandium	45-2				107		%
Selenium	82-1	0.57	0.66	0.27	0.50	40.72	ppb
Selenium	77-2	3.37	4.43	2.59	3.46	26.62	ppb
Selenium	78-2	0.89	0.84	1.47	1.06	33.02	ppb
Silicon	28-1	250.85	268.80	250.60	256.75	4.07	ppb
Silver	107-1	0.05	0.06	0.06	0.06	16.22	ppb
Silver	109-1	0.05	0.06	0.06	0.06	11.38	ppb
Sodium	23-2	327.00	327.76	340.30	331.69	2.25	ppb
Strontium	86-1	5620.48	6055.57	5776.69	5817.58	3.79	ppb
Strontium	88-1	5623.37	6041.08	5698.62	5787.69	3.85	ppb
Sulfur	34-1	1080.58	1264.22	971.14	1105.31	13.40	ppb
Terbium	159-1				109		%
Terbium	159-2				108		%
Thallium	203-1	0.14	0.16	0.16	0.15	6.48	ppb
Thallium	205-1	0.14	0.17	0.15	0.15	8.10	ppb
Tin	118-1	0.12	0.48	0.14	0.24	83.19	ppb
Titanium	47-1	23.43	25.59	23.96	24.32	4.63	ppb

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Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4879-03	Instrumnet Name :	P7
Client Sample ID :	E29X3	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 12:47:03	DataFile Name :	060SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	1.61	1.70	1.61	1.64	3.26	ppb
Vanadium	51-2	7.64	7.59	7.80	7.68	1.45	ppb
Yttrium	89-1				109		%
Yttrium	89-2				110		%
Zinc	66-2	18.43	18.45	18.70	18.53	0.80	ppb
Zirconium	90-1	0.59	0.61	0.58	0.59	3.00	ppb
Zirconium	91-1	0.61	0.61	0.59	0.60	2.42	ppb

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On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4879-04	Instrumnet Name :	P7
Client Sample ID :	E29X4	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 12:50:11	DataFile Name :	061SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	1171.78	1169.45	1194.12	1178.45	1.16	ppb
Antimony	121-1	0.06	0.06	0.07	0.06	7.22	ppb
Arsenic	75-2	4.15	4.04	4.16	4.12	1.67	ppb
Barium	135-1	36.28	37.01	36.54	36.61	1.01	ppb
Barium	137-1	36.67	37.32	36.92	36.97	0.88	ppb
Beryllium	9-1	0.11	0.17	0.18	0.15	23.63	ppb
Bismuth	209-1				110		%
Bismuth	209-2				106		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	0.14	0.17	0.17	0.16	9.63	ppb
Cadmium	106-1	0.02	-0.63	-0.60	-0.40		ppb
Cadmium	111-1	0.15	0.11	0.11	0.12	19.28	ppb
Calcium	43-1	278082.00	280930.12	285297.16	281436.42	1.29	ppb
Calcium	44-1	277329.13	282134.69	284537.79	281333.87	1.30	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	3.53	3.50	3.61	3.55	1.58	ppb
Cobalt	59-2	3.53	3.44	3.58	3.52	2.02	ppb
Copper	63-2	6.18	6.12	6.29	6.20	1.42	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				114		%
Holmium	165-2				112		%
Indium	115-1				108		%
Indium	115-2				107		%
Iron	56-2	8010.63	8128.95	8156.50	8098.70	0.96	ppb
Iron	57-2	9493.52	9691.55	9574.94	9586.67	1.04	ppb
Iron	54-2	8032.35	7987.67	8132.09	8050.70	0.92	ppb
Krypton	83-1						cps

Reviewed By:Mohan
On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4879-04	Instrumnet Name :	P7
Client Sample ID :	E29X4	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 12:50:11	DataFile Name :	061SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	7.60	7.71	7.58	7.63	0.93	ppb
Lead	207-1	6.77	6.90	6.81	6.83	0.95	ppb
Lead	208-1	7.06	7.13	7.03	7.07	0.76	ppb
Lithium	6-1				94		%
Magnesium	24-2	91413.61	92684.75	92699.34	92265.90	0.80	ppb
Manganese	55-2	844.55	844.57	857.05	848.72	0.85	ppb
Molybdenum	94-1	0.76	0.73	0.74	0.75	2.24	ppb
Molybdenum	95-1	0.49	0.49	0.48	0.48	1.04	ppb
Molybdenum	96-1	0.55	0.56	0.56	0.56	0.35	ppb
Molybdenum	97-1	0.50	0.49	0.48	0.49	1.83	ppb
Molybdenum	98-1	0.49	0.49	0.48	0.48	1.49	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	5.54	5.36	5.58	5.49	2.16	ppb
Phosphorus	31-2	399.19	383.66	401.39	394.75	2.45	ppb
Potassium	39-2	340.84	322.55	332.73	332.04	2.76	ppb
Rhodium	103-1				105		%
Rhodium	103-2				107		%
Scandium	45-1				105		%
Scandium	45-2				106		%
Selenium	82-1	0.25	0.62	0.29	0.39	51.99	ppb
Selenium	77-2	3.84	4.48	3.68	4.00	10.60	ppb
Selenium	78-2	1.01	0.87	1.48	1.12	28.41	ppb
Silicon	28-1	268.12	266.76	272.24	269.04	1.06	ppb
Silver	107-1	0.04	0.05	0.06	0.05	10.48	ppb
Silver	109-1	0.05	0.05	0.05	0.05	7.54	ppb
Sodium	23-2	289.40	287.63	297.24	291.42	1.75	ppb
Strontium	86-1	5871.22	5881.12	5847.18	5866.51	0.30	ppb
Strontium	88-1	5865.97	5926.92	5923.16	5905.35	0.58	ppb
Sulfur	34-1	690.72	609.59	661.58	653.97	6.28	ppb
Terbium	159-1				114		%
Terbium	159-2				109		%
Thallium	203-1	0.10	0.12	0.11	0.11	6.69	ppb
Thallium	205-1	0.11	0.11	0.12	0.11	3.08	ppb
Tin	118-1	0.07	0.08	0.05	0.07	18.83	ppb
Titanium	47-1	18.91	18.68	18.67	18.75	0.71	ppb

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Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4879-04	Instrumnet Name :	P7
Client Sample ID :	E29X4	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 12:50:11	DataFile Name :	061SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	1.01	1.05	1.01	1.02	1.85	ppb
Vanadium	51-2	6.65	6.55	6.80	6.67	1.89	ppb
Yttrium	89-1				113		%
Yttrium	89-2				112		%
Zinc	66-2	19.42	18.98	19.46	19.29	1.39	ppb
Zirconium	90-1	0.19	0.21	0.21	0.20	5.38	ppb
Zirconium	91-1	0.19	0.23	0.19	0.21	12.36	ppb

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Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4879-05	Instrumnet Name :	P7
Client Sample ID :	E29X5	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 12:53:21	DataFile Name :	062SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	1840.69	1710.67	1748.08	1766.48	3.79	ppb
Antimony	121-1	0.06	0.07	0.07	0.06	6.20	ppb
Arsenic	75-2	3.72	3.58	3.38	3.56	4.85	ppb
Barium	135-1	40.90	44.30	44.06	43.08	4.40	ppb
Barium	137-1	41.65	44.58	44.89	43.71	4.09	ppb
Beryllium	9-1	0.14	0.21	0.21	0.19	22.17	ppb
Bismuth	209-1				111		%
Bismuth	209-2				103		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	0.32	0.23	0.26	0.27	18.18	ppb
Cadmium	106-1	-0.55	0.29	-0.24	-0.16		ppb
Cadmium	111-1	0.14	0.25	0.20	0.20	27.67	ppb
Calcium	43-1	187247.73	200258.51	201485.72	196330.66	4.02	ppb
Calcium	44-1	187640.84	200369.27	201734.24	196581.45	3.95	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	5.01	4.72	5.00	4.91	3.30	ppb
Cobalt	59-2	3.78	3.63	3.66	3.69	2.17	ppb
Copper	63-2	8.92	8.54	8.47	8.65	2.77	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				116		%
Holmium	165-2				107		%
Indium	115-1				110		%
Indium	115-2				104		%
Iron	56-2	8865.28	8303.42	8377.74	8515.48	3.58	ppb
Iron	57-2	9868.59	9448.75	9370.97	9562.77	2.80	ppb
Iron	54-2	8699.55	8253.29	8423.92	8458.92	2.66	ppb
Krypton	83-1						cps

Reviewed By:Mohan
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Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4879-05	Instrumnet Name :	P7
Client Sample ID :	E29X5	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 12:53:21	DataFile Name :	062SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	37.38	39.56	39.46	38.80	3.17	ppb
Lead	207-1	34.10	36.51	35.87	35.49	3.52	ppb
Lead	208-1	35.24	37.69	37.40	36.78	3.63	ppb
Lithium	6-1				96		%
Magnesium	24-2	81352.93	79009.91	79257.63	79873.49	1.61	ppb
Manganese	55-2	487.97	456.13	466.37	470.16	3.46	ppb
Molybdenum	94-1	0.90	0.96	0.97	0.94	3.96	ppb
Molybdenum	95-1	0.57	0.61	0.62	0.60	3.81	ppb
Molybdenum	96-1	0.63	0.68	0.68	0.66	4.75	ppb
Molybdenum	97-1	0.55	0.58	0.60	0.58	5.15	ppb
Molybdenum	98-1	0.56	0.60	0.59	0.58	3.42	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	7.20	6.96	7.19	7.12	1.86	ppb
Phosphorus	31-2	746.32	713.64	769.83	743.26	3.80	ppb
Potassium	39-2	391.99	371.65	377.92	380.52	2.74	ppb
Rhodium	103-1				106		%
Rhodium	103-2				104		%
Scandium	45-1				108		%
Scandium	45-2				102		%
Selenium	82-1	0.44	0.51	0.12	0.35	58.58	ppb
Selenium	77-2	6.56	6.98	5.88	6.47	8.58	ppb
Selenium	78-2	2.29	1.55	0.85	1.56	46.05	ppb
Silicon	28-1	343.97	377.95	377.85	366.59	5.34	ppb
Silver	107-1	0.04	0.05	0.04	0.05	8.15	ppb
Silver	109-1	0.04	0.05	0.05	0.05	10.84	ppb
Sodium	23-2	299.73	290.28	295.09	295.04	1.60	ppb
Strontium	86-1	7250.15	7903.42	7860.11	7671.23	4.76	ppb
Strontium	88-1	7290.44	7747.97	7794.15	7610.85	3.66	ppb
Sulfur	34-1	489.32	639.96	676.60	601.96	16.49	ppb
Terbium	159-1				115		%
Terbium	159-2				106		%
Thallium	203-1	0.12	0.12	0.13	0.12	4.09	ppb
Thallium	205-1	0.12	0.13	0.13	0.12	4.42	ppb
Tin	118-1	0.15	0.22	0.19	0.19	19.40	ppb
Titanium	47-1	24.67	25.95	26.58	25.73	3.79	ppb

Reviewed By:Mohan
On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4879-05	Instrumnet Name :	P7
Client Sample ID :	E29X5	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 12:53:21	DataFile Name :	062SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	0.91	0.98	0.98	0.96	4.21	ppb
Vanadium	51-2	7.45	7.06	7.28	7.26	2.74	ppb
Yttrium	89-1				114		%
Yttrium	89-2				108		%
Zinc	66-2	64.55	60.72	61.69	62.32	3.20	ppb
Zirconium	90-1	0.24	0.42	0.27	0.31	31.03	ppb
Zirconium	91-1	0.26	0.28	0.25	0.26	4.77	ppb

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Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4879-06	Instrumnet Name :	P7
Client Sample ID :	E29X5D	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 12:56:28	DataFile Name :	063SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	1748.19	1661.78	3153.25	2187.74	38.27	ppb
Antimony	121-1	0.06	0.06	0.06	0.06	0.63	ppb
Arsenic	75-2	3.66	3.59	6.12	4.46	32.25	ppb
Barium	135-1	46.22	47.21	46.75	46.73	1.06	ppb
Barium	137-1	47.03	47.78	46.69	47.17	1.18	ppb
Beryllium	9-1	0.14	0.18	0.19	0.17	16.64	ppb
Bismuth	209-1				111		%
Bismuth	209-2				90		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	0.24	0.19	0.27	0.23	18.32	ppb
Cadmium	106-1	0.31	0.15	0.26	0.24	32.87	ppb
Cadmium	111-1	0.24	0.25	0.23	0.24	3.48	ppb
Calcium	43-1	193678.31	205717.94	202461.73	200619.33	3.10	ppb
Calcium	44-1	195147.69	203437.39	202739.52	200441.54	2.29	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	4.95	4.48	9.35	6.26	42.93	ppb
Cobalt	59-2	3.61	3.39	6.69	4.56	40.40	ppb
Copper	63-2	8.39	8.04	15.42	10.62	39.19	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				115		%
Holmium	165-2				95		%
Indium	115-1				109		%
Indium	115-2				91		%
Iron	56-2	8383.93	7859.68	15036.44	10426.68	38.37	ppb
Iron	57-2	9212.84	8819.95	16520.92	11517.90	37.66	ppb
Iron	54-2	8154.65	7694.42	14904.82	10251.30	39.38	ppb
Krypton	83-1						cps

Reviewed By:Mohan
On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4879-06	Instrumnet Name :	P7
Client Sample ID :	E29X5D	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 12:56:28	DataFile Name :	063SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	37.49	37.48	37.39	37.46	0.15	ppb
Lead	207-1	34.13	34.65	34.79	34.52	1.01	ppb
Lead	208-1	35.46	35.83	35.60	35.63	0.52	ppb
Lithium	6-1				95		%
Magnesium	24-2	76137.44	73762.93	137485.36	95795.24	37.71	ppb
Manganese	55-2	453.00	422.48	818.39	564.62	39.02	ppb
Molybdenum	94-1	0.94	0.93	1.01	0.96	4.45	ppb
Molybdenum	95-1	0.61	0.59	0.59	0.60	1.42	ppb
Molybdenum	96-1	0.66	0.68	0.70	0.68	3.06	ppb
Molybdenum	97-1	0.59	0.57	0.60	0.59	2.56	ppb
Molybdenum	98-1	0.59	0.59	0.60	0.59	0.82	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	7.10	6.35	12.50	8.65	38.82	ppb
Phosphorus	31-2	705.08	646.71	1319.38	890.39	41.85	ppb
Potassium	39-2	367.52	344.00	719.46	476.99	44.09	ppb
Rhodium	103-1				106		%
Rhodium	103-2				90		%
Scandium	45-1				106		%
Scandium	45-2				90		%
Selenium	82-1	0.60	0.66	0.47	0.58	16.67	ppb
Selenium	77-2	4.73	5.71	8.81	6.42	33.14	ppb
Selenium	78-2	1.89	1.37	5.01	2.75	71.39	ppb
Silicon	28-1	375.75	384.03	381.94	380.57	1.13	ppb
Silver	107-1	0.04	0.05	0.05	0.05	8.85	ppb
Silver	109-1	0.04	0.05	0.05	0.04	9.27	ppb
Sodium	23-2	281.11	264.27	556.79	367.39	44.70	ppb
Strontium	86-1	7676.94	7761.21	7788.56	7742.24	0.75	ppb
Strontium	88-1	7696.67	7680.70	7778.80	7718.72	0.68	ppb
Sulfur	34-1	685.63	760.93	749.43	732.00	5.54	ppb
Terbium	159-1				114		%
Terbium	159-2				94		%
Thallium	203-1	0.11	0.12	0.12	0.12	4.55	ppb
Thallium	205-1	0.11	0.12	0.11	0.11	1.68	ppb
Tin	118-1	0.18	0.19	0.23	0.20	12.42	ppb
Titanium	47-1	26.40	27.80	27.42	27.21	2.66	ppb

Reviewed By:Mohan
On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4879-06	Instrumnet Name :	P7
Client Sample ID :	E29X5D	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 12:56:28	DataFile Name :	063SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	0.99	0.99	0.99	0.99	0.49	ppb
Vanadium	51-2	7.23	6.91	12.98	9.04	37.77	ppb
Yttrium	89-1				113		%
Yttrium	89-2				94		%
Zinc	66-2	59.32	55.35	113.14	75.94	42.51	ppb
Zirconium	90-1	0.25	0.26	0.26	0.26	2.76	ppb
Zirconium	91-1	0.26	0.25	0.28	0.26	5.85	ppb

Reviewed By:Mohan
On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4879-05LX5	Instrumnet Name :	P7
Client Sample ID :	E29X5L	Dilution Factor :	5
Date & Time Acquired :	2024-11-20 12:59:38	DataFile Name :	064SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	349.54	348.56	356.68	351.59	1.26	ppb
Antimony	121-1	0.01	0.01	0.01	0.01	4.99	ppb
Arsenic	75-2	0.77	0.71	0.73	0.74	4.21	ppb
Barium	135-1	8.53	8.87	8.71	8.70	1.97	ppb
Barium	137-1	8.91	8.94	8.82	8.89	0.69	ppb
Beryllium	9-1	0.02	0.04	0.05	0.04	40.62	ppb
Bismuth	209-1				111		%
Bismuth	209-2				108		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	0.03	0.08	0.05	0.05	46.31	ppb
Cadmium	106-1	0.44	-0.17	-0.94	-0.22		ppb
Cadmium	111-1	0.07	0.03	-0.02	0.03	164.89	ppb
Calcium	43-1	40464.53	40731.83	40953.97	40716.78	0.60	ppb
Calcium	44-1	39802.01	40709.07	40527.20	40346.09	1.19	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.93	0.95	0.98	0.95	2.57	ppb
Cobalt	59-2	0.69	0.71	0.71	0.70	2.06	ppb
Copper	63-2	1.77	1.78	1.79	1.78	0.58	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				113		%
Holmium	165-2				110		%
Indium	115-1				108		%
Indium	115-2				106		%
Iron	56-2	1626.67	1634.32	1614.35	1625.12	0.62	ppb
Iron	57-2	1787.16	1794.05	1810.05	1797.09	0.65	ppb
Iron	54-2	1630.04	1608.00	1628.09	1622.04	0.75	ppb
Krypton	83-1						cps

Reviewed By:Mohan
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Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4879-05LX5	Instrumnet Name :	P7
Client Sample ID :	E29X5L	Dilution Factor :	5
Date & Time Acquired :	2024-11-20 12:59:38	DataFile Name :	064SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	7.68	7.78	7.85	7.77	1.09	ppb
Lead	207-1	7.02	7.21	7.32	7.18	2.12	ppb
Lead	208-1	7.23	7.42	7.46	7.37	1.61	ppb
Lithium	6-1				101		%
Magnesium	24-2	15697.68	15437.91	15882.47	15672.69	1.42	ppb
Manganese	55-2	87.37	87.08	87.37	87.27	0.19	ppb
Molybdenum	94-1	0.19	0.18	0.21	0.19	6.15	ppb
Molybdenum	95-1	0.12	0.12	0.12	0.12	1.20	ppb
Molybdenum	96-1	0.13	0.13	0.13	0.13	3.21	ppb
Molybdenum	97-1	0.12	0.13	0.13	0.13	2.99	ppb
Molybdenum	98-1	0.12	0.12	0.12	0.12	2.81	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	1.32	1.40	1.34	1.35	2.92	ppb
Phosphorus	31-2	124.90	133.74	131.89	130.18	3.58	ppb
Potassium	39-2	77.87	77.02	79.95	78.28	1.93	ppb
Rhodium	103-1				107		%
Rhodium	103-2				108		%
Scandium	45-1				104		%
Scandium	45-2				103		%
Selenium	82-1	0.09	0.21	-0.14	0.05	353.13	ppb
Selenium	77-2	1.05	0.81	1.08	0.98	15.19	ppb
Selenium	78-2	0.35	-0.26	0.42	0.17	221.64	ppb
Silicon	28-1	74.49	70.54	73.48	72.84	2.82	ppb
Silver	107-1	0.02	0.02	0.02	0.02	9.64	ppb
Silver	109-1	0.02	0.02	0.02	0.02	4.55	ppb
Sodium	23-2	75.10	76.92	76.78	76.27	1.33	ppb
Strontium	86-1	1491.20	1534.99	1524.60	1516.93	1.51	ppb
Strontium	88-1	1555.36	1566.07	1553.42	1558.28	0.44	ppb
Sulfur	34-1	360.79	286.68	305.78	317.75	12.11	ppb
Terbium	159-1				111		%
Terbium	159-2				108		%
Thallium	203-1	0.03	0.03	0.03	0.03	6.32	ppb
Thallium	205-1	0.03	0.03	0.03	0.03	3.96	ppb
Tin	118-1	0.03	0.04	0.03	0.03	13.44	ppb
Titanium	47-1	5.39	5.22	5.42	5.34	2.02	ppb

Reviewed By:Mohan
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Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4879-05LX5	Instrumnet Name :	P7
Client Sample ID :	E29X5L	Dilution Factor :	5
Date & Time Acquired :	2024-11-20 12:59:38	DataFile Name :	064SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	0.18	0.19	0.19	0.19	3.06	ppb
Vanadium	51-2	1.37	1.39	1.38	1.38	0.94	ppb
Yttrium	89-1				109		%
Yttrium	89-2				106		%
Zinc	66-2	11.94	12.25	12.23	12.14	1.44	ppb
Zirconium	90-1	0.05	0.05	0.05	0.05	6.00	ppb
Zirconium	91-1	0.05	0.05	0.05	0.05	9.98	ppb

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Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4879-07	Instrumnet Name :	P7
Client Sample ID :	E29X5S	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 13:02:48	DataFile Name :	065SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	2232.06	2176.31	2279.75	2229.37	2.32	ppb
Antimony	121-1	19.79	19.88	20.04	19.90	0.64	ppb
Arsenic	75-2	11.67	11.57	11.59	11.61	0.47	ppb
Barium	135-1	451.48	449.05	449.22	449.91	0.30	ppb
Barium	137-1	453.43	444.74	454.02	450.73	1.15	ppb
Beryllium	9-1	9.35	9.75	9.50	9.53	2.12	ppb
Bismuth	209-1				110		%
Bismuth	209-2				105		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	8.98	9.39	8.82	9.07	3.26	ppb
Cadmium	106-1	9.02	8.96	8.64	8.87	2.30	ppb
Cadmium	111-1	10.25	10.36	10.36	10.32	0.61	ppb
Calcium	43-1	199061.93	201612.46	205773.91	202149.43	1.68	ppb
Calcium	44-1	200106.58	203056.85	205436.24	202866.56	1.32	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	45.39	45.47	47.03	45.96	2.01	ppb
Cobalt	59-2	109.65	108.78	113.25	110.56	2.14	ppb
Copper	63-2	56.49	55.96	58.43	56.96	2.29	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				114		%
Holmium	165-2				110		%
Indium	115-1				107		%
Indium	115-2				106		%
Iron	56-2	8540.26	8507.37	8709.69	8585.77	1.26	ppb
Iron	57-2	9674.87	9480.01	9736.66	9630.51	1.39	ppb
Iron	54-2	8509.25	8476.02	8712.23	8565.83	1.49	ppb
Krypton	83-1						cps

Reviewed By:Mohan
On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4879-07	Instrumnet Name :	P7
Client Sample ID :	E29X5S	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 13:02:48	DataFile Name :	065SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	42.97	43.18	43.40	43.18	0.50	ppb
Lead	207-1	39.61	39.99	39.52	39.70	0.63	ppb
Lead	208-1	40.78	41.28	41.11	41.06	0.62	ppb
Lithium	6-1				99		%
Magnesium	24-2	77204.71	77945.82	79210.49	78120.34	1.30	ppb
Manganese	55-2	563.39	561.80	569.56	564.91	0.73	ppb
Molybdenum	94-1	1.07	1.04	0.96	1.02	5.98	ppb
Molybdenum	95-1	0.63	0.64	0.62	0.63	2.29	ppb
Molybdenum	96-1	0.68	0.69	0.67	0.68	1.49	ppb
Molybdenum	97-1	0.61	0.60	0.59	0.60	1.79	ppb
Molybdenum	98-1	0.60	0.62	0.61	0.61	1.48	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	107.90	106.64	111.00	108.51	2.07	ppb
Phosphorus	31-2	729.73	716.54	744.26	730.18	1.90	ppb
Potassium	39-2	368.65	363.35	382.95	371.65	2.73	ppb
Rhodium	103-1				103		%
Rhodium	103-2				105		%
Scandium	45-1				104		%
Scandium	45-2				103		%
Selenium	82-1	20.31	20.62	19.42	20.12	3.08	ppb
Selenium	77-2	27.61	25.69	26.18	26.49	3.78	ppb
Selenium	78-2	21.67	20.91	21.62	21.40	1.99	ppb
Silicon	28-1	393.58	390.29	395.19	393.02	0.64	ppb
Silver	107-1	9.83	9.93	10.00	9.92	0.85	ppb
Silver	109-1	9.93	9.92	9.90	9.91	0.14	ppb
Sodium	23-2	289.22	288.57	298.33	292.04	1.87	ppb
Strontium	86-1	7764.39	7936.30	7860.24	7853.64	1.10	ppb
Strontium	88-1	7767.37	7957.88	7916.65	7880.63	1.27	ppb
Sulfur	34-1	786.54	764.53	807.02	786.03	2.70	ppb
Terbium	159-1				113		%
Terbium	159-2				108		%
Thallium	203-1	10.02	10.13	10.03	10.06	0.61	ppb
Thallium	205-1	9.93	10.22	10.13	10.09	1.43	ppb
Tin	118-1	0.18	0.20	0.21	0.20	6.26	ppb
Titanium	47-1	26.48	27.31	27.90	27.23	2.62	ppb

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Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4879-07	Instrumnet Name :	P7
Client Sample ID :	E29X5S	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 13:02:48	DataFile Name :	065SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	0.99	1.04	1.01	1.02	2.45	ppb
Vanadium	51-2	107.42	107.98	110.26	108.55	1.39	ppb
Yttrium	89-1				110		%
Yttrium	89-2				109		%
Zinc	66-2	157.97	156.76	161.66	158.79	1.61	ppb
Zirconium	90-1	0.26	0.25	0.26	0.26	0.50	ppb
Zirconium	91-1	0.25	0.27	0.26	0.26	3.17	ppb

Reviewed By:Mohan
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Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4879-08	Instrumnet Name :	P7
Client Sample ID :	E29X6	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 13:05:53	DataFile Name :	066SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	1048.03	1084.94	1060.57	1064.51	1.76	ppb
Antimony	121-1	0.07	0.08	0.07	0.08	3.14	ppb
Arsenic	75-2	8.34	8.27	8.15	8.25	1.19	ppb
Barium	135-1	37.20	33.95	34.00	35.05	5.30	ppb
Barium	137-1	37.68	34.60	34.48	35.59	5.10	ppb
Beryllium	9-1	0.23	0.19	0.18	0.20	12.99	ppb
Bismuth	209-1				104		%
Bismuth	209-2				104		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	0.22	0.35	0.21	0.26	30.27	ppb
Cadmium	106-1	0.01	-0.32	-0.54	-0.28		ppb
Cadmium	111-1	0.22	0.18	0.16	0.18	18.35	ppb
Calcium	43-1	361341.50	322597.65	320611.47	334850.21	6.86	ppb
Calcium	44-1	360692.18	322676.17	320819.61	334729.32	6.72	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	3.89	4.13	3.94	3.98	3.20	ppb
Cobalt	59-2	3.75	3.80	3.75	3.77	0.81	ppb
Copper	63-2	6.86	7.14	6.97	6.99	1.99	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				109		%
Holmium	165-2				110		%
Indium	115-1				103		%
Indium	115-2				105		%
Iron	56-2	7736.24	7963.12	7851.40	7850.25	1.45	ppb
Iron	57-2	9440.51	9823.89	9534.63	9599.68	2.08	ppb
Iron	54-2	7616.91	7922.38	7691.06	7743.45	2.06	ppb
Krypton	83-1						cps

Reviewed By:Mohan
On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4879-08	Instrumnet Name :	P7
Client Sample ID :	E29X6	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 13:05:53	DataFile Name :	066SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	9.84	8.77	8.75	9.12	6.84	ppb
Lead	207-1	8.72	7.77	7.78	8.09	6.76	ppb
Lead	208-1	9.04	8.11	8.12	8.42	6.36	ppb
Lithium	6-1				90		%
Magnesium	24-2	94166.39	100483.23	95221.49	96623.70	3.50	ppb
Manganese	55-2	435.73	453.52	443.11	444.12	2.01	ppb
Molybdenum	94-1	1.21	1.09	1.06	1.12	6.82	ppb
Molybdenum	95-1	0.74	0.69	0.71	0.71	3.40	ppb
Molybdenum	96-1	0.87	0.79	0.76	0.81	6.87	ppb
Molybdenum	97-1	0.74	0.70	0.69	0.71	3.65	ppb
Molybdenum	98-1	0.77	0.70	0.70	0.72	5.62	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	6.66	7.14	6.83	6.88	3.54	ppb
Phosphorus	31-2	351.07	370.69	351.40	357.72	3.14	ppb
Potassium	39-2	320.15	337.18	320.72	326.01	2.97	ppb
Rhodium	103-1				100		%
Rhodium	103-2				105		%
Scandium	45-1				102		%
Scandium	45-2				106		%
Selenium	82-1	1.01	0.61	0.75	0.79	25.58	ppb
Selenium	77-2	5.28	4.37	4.78	4.81	9.41	ppb
Selenium	78-2	0.98	2.11	0.81	1.30	54.68	ppb
Silicon	28-1	245.06	225.87	224.01	231.64	5.03	ppb
Silver	107-1	0.06	0.06	0.05	0.06	11.25	ppb
Silver	109-1	0.06	0.05	0.05	0.05	12.99	ppb
Sodium	23-2	373.99	394.85	378.32	382.38	2.88	ppb
Strontium	86-1	7977.12	7116.20	7117.80	7403.71	6.71	ppb
Strontium	88-1	7875.11	7191.12	7086.34	7384.19	5.80	ppb
Sulfur	34-1	1559.90	1074.55	987.19	1207.22	25.56	ppb
Terbium	159-1				108		%
Terbium	159-2				107		%
Thallium	203-1	0.09	0.08	0.09	0.08	8.53	ppb
Thallium	205-1	0.09	0.09	0.08	0.09	6.02	ppb
Tin	118-1	0.13	0.09	0.08	0.10	25.66	ppb
Titanium	47-1	17.47	15.87	15.15	16.16	7.36	ppb

Reviewed By:Mohan
On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4879-08	Instrumnet Name :	P7
Client Sample ID :	E29X6	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 13:05:53	DataFile Name :	066SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	1.71	1.54	1.51	1.59	6.68	ppb
Vanadium	51-2	7.12	7.38	7.08	7.19	2.25	ppb
Yttrium	89-1				108		%
Yttrium	89-2				110		%
Zinc	66-2	31.23	31.61	31.86	31.57	1.00	ppb
Zirconium	90-1	0.31	0.30	0.29	0.30	3.40	ppb
Zirconium	91-1	0.33	0.31	0.40	0.35	13.16	ppb

Reviewed By:Mohan
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Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4879-09	Instrumnet Name :	P7
Client Sample ID :	E29X7	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 13:09:01	DataFile Name :	067SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	1081.74	1097.21	1118.89	1099.28	1.70	ppb
Antimony	121-1	0.06	0.06	0.06	0.06	4.00	ppb
Arsenic	75-2	3.36	3.36	3.41	3.38	0.95	ppb
Barium	135-1	31.59	31.78	32.03	31.80	0.70	ppb
Barium	137-1	31.90	32.19	32.14	32.08	0.48	ppb
Beryllium	9-1	0.16	0.18	0.14	0.16	11.82	ppb
Bismuth	209-1				108		%
Bismuth	209-2				104		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	0.20	0.16	0.23	0.20	18.46	ppb
Cadmium	106-1	0.56	-0.42	-0.06	0.02	2071.24	ppb
Cadmium	111-1	0.18	0.11	0.12	0.14	29.22	ppb
Calcium	43-1	317711.07	312106.64	310590.95	313469.55	1.20	ppb
Calcium	44-1	316890.64	313614.28	311580.86	314028.59	0.85	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	3.80	3.85	3.88	3.85	1.04	ppb
Cobalt	59-2	3.28	3.32	3.26	3.28	0.98	ppb
Copper	63-2	5.45	5.53	5.51	5.50	0.71	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				113		%
Holmium	165-2				110		%
Indium	115-1				107		%
Indium	115-2				106		%
Iron	56-2	6310.70	6281.92	6282.33	6291.65	0.26	ppb
Iron	57-2	7753.43	8043.79	7915.38	7904.20	1.84	ppb
Iron	54-2	6281.85	6194.12	6277.78	6251.25	0.79	ppb
Krypton	83-1						cps

Reviewed By:Mohan
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Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4879-09	Instrumnet Name :	P7
Client Sample ID :	E29X7	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 13:09:01	DataFile Name :	067SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	8.53	8.71	8.68	8.64	1.09	ppb
Lead	207-1	7.65	7.75	7.72	7.71	0.65	ppb
Lead	208-1	7.90	8.02	8.01	7.98	0.82	ppb
Lithium	6-1				90		%
Magnesium	24-2	122653.16	124574.31	122936.08	123387.85	0.84	ppb
Manganese	55-2	461.04	464.34	463.11	462.83	0.36	ppb
Molybdenum	94-1	1.34	1.29	1.27	1.30	2.86	ppb
Molybdenum	95-1	0.43	0.44	0.44	0.44	1.35	ppb
Molybdenum	96-1	0.55	0.56	0.55	0.55	1.01	ppb
Molybdenum	97-1	0.46	0.44	0.43	0.45	3.68	ppb
Molybdenum	98-1	0.45	0.44	0.43	0.44	2.23	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	5.60	5.69	5.66	5.65	0.73	ppb
Phosphorus	31-2	334.78	338.82	339.28	337.63	0.73	ppb
Potassium	39-2	333.63	343.95	345.79	341.12	1.92	ppb
Rhodium	103-1				104		%
Rhodium	103-2				105		%
Scandium	45-1				105		%
Scandium	45-2				105		%
Selenium	82-1	0.41	0.75	0.59	0.59	28.98	ppb
Selenium	77-2	3.77	3.86	4.32	3.98	7.37	ppb
Selenium	78-2	1.24	1.59	1.15	1.33	17.37	ppb
Silicon	28-1	216.52	223.41	209.17	216.37	3.29	ppb
Silver	107-1	0.03	0.04	0.05	0.04	16.76	ppb
Silver	109-1	0.04	0.04	0.05	0.04	10.12	ppb
Sodium	23-2	368.75	373.21	369.62	370.53	0.64	ppb
Strontium	86-1	5544.41	5552.12	5462.04	5519.52	0.90	ppb
Strontium	88-1	5562.02	5519.90	5505.97	5529.30	0.53	ppb
Sulfur	34-1	645.94	567.82	513.97	575.91	11.52	ppb
Terbium	159-1				112		%
Terbium	159-2				109		%
Thallium	203-1	0.06	0.06	0.07	0.07	5.31	ppb
Thallium	205-1	0.07	0.07	0.07	0.07	4.61	ppb
Tin	118-1	0.04	0.05	0.05	0.05	9.61	ppb
Titanium	47-1	17.71	16.94	17.01	17.22	2.49	ppb

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Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4879-09	Instrumnet Name :	P7
Client Sample ID :	E29X7	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 13:09:01	DataFile Name :	067SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	1.27	1.28	1.28	1.28	0.20	ppb
Vanadium	51-2	7.14	7.34	7.19	7.22	1.47	ppb
Yttrium	89-1				112		%
Yttrium	89-2				110		%
Zinc	66-2	18.40	18.41	18.73	18.52	1.03	ppb
Zirconium	90-1	0.51	0.50	0.51	0.51	0.49	ppb
Zirconium	91-1	0.57	0.53	0.48	0.53	7.77	ppb

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Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4879-10	Instrumnet Name :	P7
Client Sample ID :	E29X8	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 13:12:12	DataFile Name :	068SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	1435.15	1440.22	1436.40	1437.26	0.18	ppb
Antimony	121-1	0.07	0.07	0.07	0.07	4.85	ppb
Arsenic	75-2	3.99	3.92	3.93	3.95	0.95	ppb
Barium	135-1	37.41	37.17	36.62	37.06	1.09	ppb
Barium	137-1	37.89	37.79	37.49	37.72	0.56	ppb
Beryllium	9-1	0.17	0.19	0.18	0.18	6.29	ppb
Bismuth	209-1				110		%
Bismuth	209-2				105		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	0.19	0.22	0.19	0.20	8.84	ppb
Cadmium	106-1	0.13	-0.22	-1.06	-0.38		ppb
Cadmium	111-1	0.15	0.11	0.06	0.11	40.30	ppb
Calcium	43-1	236581.23	242341.76	233020.62	237314.54	1.98	ppb
Calcium	44-1	235422.92	239359.78	236531.27	237104.66	0.86	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	4.23	4.38	4.44	4.35	2.45	ppb
Cobalt	59-2	3.25	3.32	3.31	3.29	1.12	ppb
Copper	63-2	6.28	6.50	6.43	6.41	1.72	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				114		%
Holmium	165-2				112		%
Indium	115-1				108		%
Indium	115-2				107		%
Iron	56-2	7057.06	7341.74	7070.80	7156.53	2.24	ppb
Iron	57-2	8277.21	8456.80	8289.58	8341.20	1.20	ppb
Iron	54-2	6983.47	7191.68	6893.31	7022.82	2.18	ppb
Krypton	83-1						cps

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Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4879-10	Instrumnet Name :	P7
Client Sample ID :	E29X8	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 13:12:12	DataFile Name :	068SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	7.99	8.16	7.99	8.05	1.26	ppb
Lead	207-1	7.24	7.23	7.14	7.20	0.75	ppb
Lead	208-1	7.51	7.58	7.43	7.51	0.97	ppb
Lithium	6-1				94		%
Magnesium	24-2	98234.87	99475.71	95005.68	97572.08	2.36	ppb
Manganese	55-2	353.24	366.43	350.77	356.81	2.36	ppb
Molybdenum	94-1	1.00	0.99	1.04	1.01	2.35	ppb
Molybdenum	95-1	0.76	0.74	0.76	0.75	1.62	ppb
Molybdenum	96-1	0.82	0.85	0.81	0.83	2.56	ppb
Molybdenum	97-1	0.78	0.77	0.74	0.76	2.62	ppb
Molybdenum	98-1	0.77	0.77	0.77	0.77	0.50	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	5.81	6.04	6.05	5.97	2.33	ppb
Phosphorus	31-2	307.09	316.75	337.91	320.58	4.92	ppb
Potassium	39-2	343.87	359.26	349.32	350.82	2.22	ppb
Rhodium	103-1				105		%
Rhodium	103-2				107		%
Scandium	45-1				106		%
Scandium	45-2				107		%
Selenium	82-1	0.80	0.43	0.42	0.55	38.74	ppb
Selenium	77-2	4.95	2.76	3.05	3.59	33.18	ppb
Selenium	78-2	0.91	0.75	0.88	0.85	10.12	ppb
Silicon	28-1	323.01	322.41	317.03	320.82	1.03	ppb
Silver	107-1	0.03	0.04	0.04	0.04	8.60	ppb
Silver	109-1	0.04	0.04	0.04	0.04	1.50	ppb
Sodium	23-2	271.60	287.22	283.92	280.91	2.93	ppb
Strontium	86-1	6553.95	6538.80	6562.94	6551.90	0.19	ppb
Strontium	88-1	6551.31	6517.01	6561.97	6543.43	0.36	ppb
Sulfur	34-1	626.38	625.48	562.91	604.92	6.01	ppb
Terbium	159-1				114		%
Terbium	159-2				109		%
Thallium	203-1	0.08	0.09	0.09	0.09	4.69	ppb
Thallium	205-1	0.09	0.08	0.09	0.09	3.43	ppb
Tin	118-1	0.08	0.05	0.08	0.07	25.83	ppb
Titanium	47-1	25.50	25.63	25.75	25.63	0.49	ppb

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Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4879-10	Instrumnet Name :	P7
Client Sample ID :	E29X8	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 13:12:12	DataFile Name :	068SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	0.86	0.87	0.86	0.86	0.82	ppb
Vanadium	51-2	7.10	7.23	7.37	7.23	1.88	ppb
Yttrium	89-1				112		%
Yttrium	89-2				111		%
Zinc	66-2	24.22	24.56	24.67	24.48	0.96	ppb
Zirconium	90-1	0.23	0.21	0.22	0.22	4.00	ppb
Zirconium	91-1	0.21	0.21	0.20	0.21	2.63	ppb

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Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4879-11	Instrumnet Name :	P7
Client Sample ID :	E29X9	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 13:15:19	DataFile Name :	069SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	4783.16	4847.38	4758.00	4796.18	0.96	ppb
Antimony	121-1	0.10	0.10	0.10	0.10	2.48	ppb
Arsenic	75-2	9.71	9.97	9.98	9.88	1.55	ppb
Barium	135-1	78.96	79.02	80.27	79.42	0.93	ppb
Barium	137-1	79.72	80.86	81.50	80.69	1.12	ppb
Beryllium	9-1	0.42	0.42	0.45	0.43	4.17	ppb
Bismuth	209-1				114		%
Bismuth	209-2				109		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	0.78	0.63	0.67	0.69	10.99	ppb
Cadmium	106-1	0.06	-0.22	-0.57	-0.24		ppb
Cadmium	111-1	0.36	0.38	0.33	0.35	6.83	ppb
Calcium	43-1	84918.06	83528.95	85835.43	84760.81	1.37	ppb
Calcium	44-1	85184.41	83383.19	85597.84	84721.81	1.39	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	8.35	8.67	8.44	8.49	1.92	ppb
Cobalt	59-2	6.37	6.37	6.26	6.34	0.97	ppb
Copper	63-2	19.91	19.99	19.91	19.94	0.22	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				114		%
Holmium	165-2				112		%
Indium	115-1				109		%
Indium	115-2				106		%
Iron	56-2	9893.74	10059.61	9854.19	9935.84	1.10	ppb
Iron	57-2	10166.69	10430.39	10053.91	10217.00	1.89	ppb
Iron	54-2	9880.97	9959.94	9634.52	9825.14	1.73	ppb
Krypton	83-1						cps

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Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4879-11	Instrumnet Name :	P7
Client Sample ID :	E29X9	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 13:15:19	DataFile Name :	069SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	11.59	11.83	11.75	11.72	1.03	ppb
Lead	207-1	10.42	10.73	10.56	10.57	1.47	ppb
Lead	208-1	10.84	11.13	10.99	10.99	1.34	ppb
Lithium	6-1				96		%
Magnesium	24-2	35588.14	35610.01	35180.58	35459.58	0.68	ppb
Manganese	55-2	238.61	244.53	232.15	238.43	2.60	ppb
Molybdenum	94-1	4.61	4.72	4.63	4.65	1.26	ppb
Molybdenum	95-1	2.31	2.27	2.33	2.30	1.19	ppb
Molybdenum	96-1	2.57	2.60	2.59	2.59	0.50	ppb
Molybdenum	97-1	2.30	2.33	2.30	2.31	0.75	ppb
Molybdenum	98-1	2.29	2.28	2.29	2.29	0.34	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	16.11	16.33	15.82	16.09	1.62	ppb
Phosphorus	31-2	512.51	505.48	496.17	504.72	1.62	ppb
Potassium	39-2	496.06	496.60	491.62	494.76	0.55	ppb
Rhodium	103-1				107		%
Rhodium	103-2				106		%
Scandium	45-1				104		%
Scandium	45-2				102		%
Selenium	82-1	0.65	0.64	0.55	0.61	9.15	ppb
Selenium	77-2	5.21	5.90	4.81	5.31	10.35	ppb
Selenium	78-2	1.28	2.12	1.48	1.63	27.08	ppb
Silicon	28-1	927.98	1145.40	932.93	1002.10	12.39	ppb
Silver	107-1	0.07	0.07	0.07	0.07	2.95	ppb
Silver	109-1	0.06	0.07	0.07	0.07	5.54	ppb
Sodium	23-2	180.25	184.47	181.86	182.19	1.17	ppb
Strontium	86-1	5410.81	5417.81	5404.97	5411.20	0.12	ppb
Strontium	88-1	5375.58	5452.95	5371.98	5400.17	0.85	ppb
Sulfur	34-1	1443.24	1339.22	1428.10	1403.52	4.00	ppb
Terbium	159-1				114		%
Terbium	159-2				110		%
Thallium	203-1	0.15	0.16	0.15	0.16	3.70	ppb
Thallium	205-1	0.16	0.16	0.16	0.16	2.19	ppb
Tin	118-1	0.09	0.14	0.11	0.11	20.11	ppb
Titanium	47-1	58.39	57.53	58.71	58.21	1.05	ppb

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Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4879-11	Instrumnet Name :	P7
Client Sample ID :	E29X9	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 13:15:19	DataFile Name :	069SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	0.94	0.98	0.96	0.96	1.89	ppb
Vanadium	51-2	14.70	14.89	14.51	14.70	1.28	ppb
Yttrium	89-1				111		%
Yttrium	89-2				108		%
Zinc	66-2	59.29	61.01	59.67	59.99	1.50	ppb
Zirconium	90-1	1.51	1.56	1.55	1.54	1.76	ppb
Zirconium	91-1	1.51	1.55	1.58	1.55	2.22	ppb

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Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4879-12	Instrumnet Name :	P7
Client Sample ID :	E29Y0	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 13:18:27	DataFile Name :	070SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	4244.41	4240.07	4104.62	4196.36	1.89	ppb
Antimony	121-1	0.11	0.14	0.13	0.12	12.84	ppb
Arsenic	75-2	8.15	8.30	8.15	8.20	1.02	ppb
Barium	135-1	55.23	67.12	64.81	62.38	10.11	ppb
Barium	137-1	55.90	68.41	66.25	63.52	10.53	ppb
Beryllium	9-1	0.31	0.36	0.34	0.33	7.85	ppb
Bismuth	209-1				104		%
Bismuth	209-2				104		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	0.54	0.52	0.49	0.52	4.90	ppb
Cadmium	106-1	0.46	0.02	-0.56	-0.03		ppb
Cadmium	111-1	0.27	0.29	0.26	0.27	7.33	ppb
Calcium	43-1	222758.75	271023.62	263904.94	252562.44	10.32	ppb
Calcium	44-1	221973.02	269025.79	264009.92	251669.58	10.27	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	10.07	10.26	9.89	10.07	1.88	ppb
Cobalt	59-2	7.75	7.82	7.52	7.70	2.01	ppb
Copper	63-2	15.24	15.51	14.82	15.19	2.29	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				108		%
Holmium	165-2				110		%
Indium	115-1				101		%
Indium	115-2				104		%
Iron	56-2	16263.50	16323.84	15744.16	16110.50	1.98	ppb
Iron	57-2	16972.33	17319.91	17137.41	17143.22	1.01	ppb
Iron	54-2	15813.49	16061.63	15755.35	15876.83	1.02	ppb
Krypton	83-1						cps

Reviewed By:Mohan
On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4879-12	Instrumnet Name :	P7
Client Sample ID :	E29Y0	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 13:18:27	DataFile Name :	070SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	12.10	14.84	13.77	13.57	10.17	ppb
Lead	207-1	10.82	13.31	12.54	12.22	10.44	ppb
Lead	208-1	11.33	13.81	12.96	12.70	9.92	ppb
Lithium	6-1				90		%
Magnesium	24-2	86375.51	85029.57	82811.61	84738.90	2.12	ppb
Manganese	55-2	525.72	514.99	514.54	518.42	1.22	ppb
Molybdenum	94-1	5.63	6.63	6.37	6.21	8.38	ppb
Molybdenum	95-1	1.72	2.02	2.02	1.92	8.97	ppb
Molybdenum	96-1	2.18	2.61	2.60	2.46	9.80	ppb
Molybdenum	97-1	1.74	2.06	2.05	1.95	9.36	ppb
Molybdenum	98-1	1.74	2.10	2.04	1.96	9.90	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	18.14	17.95	17.40	17.83	2.16	ppb
Phosphorus	31-2	609.14	590.22	593.08	597.48	1.71	ppb
Potassium	39-2	858.81	871.79	844.73	858.44	1.58	ppb
Rhodium	103-1				98		%
Rhodium	103-2				104		%
Scandium	45-1				98		%
Scandium	45-2				103		%
Selenium	82-1	0.84	0.72	0.45	0.67	29.65	ppb
Selenium	77-2	7.58	7.50	7.02	7.36	4.13	ppb
Selenium	78-2	2.14	1.25	1.32	1.57	31.50	ppb
Silicon	28-1	834.13	1009.36	989.71	944.40	10.17	ppb
Silver	107-1	0.05	0.06	0.06	0.06	13.98	ppb
Silver	109-1	0.05	0.06	0.06	0.06	8.77	ppb
Sodium	23-2	301.81	301.98	291.37	298.39	2.04	ppb
Strontium	86-1	4912.31	5889.33	5694.58	5498.74	9.40	ppb
Strontium	88-1	4901.83	5864.26	5697.41	5487.83	9.37	ppb
Sulfur	34-1	2324.94	3316.28	3212.80	2951.34	18.46	ppb
Terbium	159-1				108		%
Terbium	159-2				108		%
Thallium	203-1	0.12	0.16	0.14	0.14	12.59	ppb
Thallium	205-1	0.13	0.16	0.14	0.14	11.06	ppb
Tin	118-1	0.13	0.24	0.24	0.20	32.11	ppb
Titanium	47-1	73.22	87.60	96.82	85.88	13.85	ppb

Reviewed By:Mohan
On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4879-12	Instrumnet Name :	P7
Client Sample ID :	E29Y0	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 13:18:27	DataFile Name :	070SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	1.63	1.99	1.86	1.83	10.14	ppb
Vanadium	51-2	12.86	12.73	12.37	12.65	2.02	ppb
Yttrium	89-1				105		%
Yttrium	89-2				109		%
Zinc	66-2	70.81	70.80	69.45	70.35	1.11	ppb
Zirconium	90-1	2.39	2.78	2.69	2.62	7.86	ppb
Zirconium	91-1	2.42	2.76	2.65	2.61	6.72	ppb

Reviewed By:Mohan
On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4879-13	Instrumnet Name :	P7
Client Sample ID :	E29Y1	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 13:21:34	DataFile Name :	071SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	1669.92	1677.85	1665.69	1671.15	0.37	ppb
Antimony	121-1	0.07	0.07	0.07	0.07	2.87	ppb
Arsenic	75-2	4.14	4.13	4.11	4.13	0.38	ppb
Barium	135-1	48.54	49.52	49.37	49.14	1.08	ppb
Barium	137-1	49.16	49.73	50.14	49.68	0.99	ppb
Beryllium	9-1	0.20	0.23	0.16	0.20	16.66	ppb
Bismuth	209-1				111		%
Bismuth	209-2				107		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	0.22	0.17	0.26	0.22	19.68	ppb
Cadmium	106-1	0.36	0.20	-0.76	-0.07		ppb
Cadmium	111-1	0.18	0.17	0.10	0.15	29.90	ppb
Calcium	43-1	142752.18	143671.68	142299.48	142907.78	0.49	ppb
Calcium	44-1	139911.19	144902.43	143898.19	142903.94	1.85	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	4.34	4.31	4.11	4.25	2.94	ppb
Cobalt	59-2	4.09	4.13	4.11	4.11	0.47	ppb
Copper	63-2	10.56	10.43	10.38	10.46	0.90	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				114		%
Holmium	165-2				110		%
Indium	115-1				109		%
Indium	115-2				105		%
Iron	56-2	8277.27	8081.78	8136.18	8165.08	1.24	ppb
Iron	57-2	8879.50	8869.33	8762.29	8837.04	0.73	ppb
Iron	54-2	8248.47	7998.38	8032.21	8093.02	1.68	ppb
Krypton	83-1						cps

Reviewed By:Mohan
On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4879-13	Instrumnet Name :	P7
Client Sample ID :	E29Y1	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 13:21:34	DataFile Name :	071SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	10.85	11.21	10.97	11.01	1.66	ppb
Lead	207-1	10.02	10.08	10.06	10.05	0.29	ppb
Lead	208-1	10.32	10.47	10.41	10.40	0.71	ppb
Lithium	6-1				95		%
Magnesium	24-2	48020.40	47329.87	48174.74	47841.67	0.94	ppb
Manganese	55-2	272.39	264.40	267.64	268.15	1.50	ppb
Molybdenum	94-1	1.51	1.55	1.55	1.54	1.77	ppb
Molybdenum	95-1	1.17	1.21	1.22	1.20	2.27	ppb
Molybdenum	96-1	1.23	1.27	1.25	1.25	1.87	ppb
Molybdenum	97-1	1.17	1.21	1.22	1.20	1.87	ppb
Molybdenum	98-1	1.17	1.20	1.20	1.19	1.35	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	7.87	8.14	7.73	7.91	2.61	ppb
Phosphorus	31-2	722.94	715.20	691.58	709.90	2.30	ppb
Potassium	39-2	335.11	329.35	325.99	330.15	1.40	ppb
Rhodium	103-1				106		%
Rhodium	103-2				107		%
Scandium	45-1				104		%
Scandium	45-2				103		%
Selenium	82-1	0.57	0.32	0.32	0.40	34.98	ppb
Selenium	77-2	4.63	3.38	4.48	4.16	16.44	ppb
Selenium	78-2	0.04	1.40	0.46	0.63	109.47	ppb
Silicon	28-1	373.53	377.28	386.97	379.26	1.83	ppb
Silver	107-1	0.04	0.04	0.04	0.04	8.95	ppb
Silver	109-1	0.04	0.04	0.04	0.04	5.17	ppb
Sodium	23-2	221.76	220.20	213.51	218.49	2.00	ppb
Strontium	86-1	5946.64	6098.27	6115.60	6053.50	1.54	ppb
Strontium	88-1	5910.45	6023.67	6017.38	5983.83	1.06	ppb
Sulfur	34-1	1138.53	1153.42	1109.03	1133.66	1.99	ppb
Terbium	159-1				113		%
Terbium	159-2				108		%
Thallium	203-1	0.09	0.10	0.09	0.09	2.08	ppb
Thallium	205-1	0.09	0.09	0.09	0.09	2.77	ppb
Tin	118-1	0.28	0.31	0.29	0.29	5.16	ppb
Titanium	47-1	37.06	37.29	38.21	37.52	1.62	ppb

Reviewed By:Mohan
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Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4879-13	Instrumnet Name :	P7
Client Sample ID :	E29Y1	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 13:21:34	DataFile Name :	071SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	0.96	0.97	0.98	0.97	1.25	ppb
Vanadium	51-2	6.67	6.71	6.58	6.65	1.03	ppb
Yttrium	89-1				111		%
Yttrium	89-2				109		%
Zinc	66-2	32.82	33.71	32.32	32.95	2.14	ppb
Zirconium	90-1	0.31	0.30	0.31	0.31	2.35	ppb
Zirconium	91-1	0.28	0.32	0.34	0.31	9.97	ppb

Reviewed By:Mohan
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Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4879-14	Instrumnet Name :	P7
Client Sample ID :	E29Y2	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 13:24:46	DataFile Name :	072SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	1424.01	1451.82	1493.34	1456.39	2.40	ppb
Antimony	121-1	0.07	0.07	0.07	0.07	1.19	ppb
Arsenic	75-2	5.33	5.10	4.98	5.14	3.45	ppb
Barium	135-1	27.60	28.49	28.71	28.27	2.07	ppb
Barium	137-1	28.15	29.00	29.10	28.75	1.81	ppb
Beryllium	9-1	0.21	0.20	0.20	0.20	3.57	ppb
Bismuth	209-1				108		%
Bismuth	209-2				104		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	0.15	0.16	0.19	0.17	10.91	ppb
Cadmium	106-1	0.05	-0.16	-0.52	-0.21		ppb
Cadmium	111-1	0.14	0.13	0.10	0.12	15.63	ppb
Calcium	43-1	321525.80	326062.30	330858.03	326148.71	1.43	ppb
Calcium	44-1	319282.81	326208.73	328321.27	324604.27	1.46	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	4.65	4.69	4.72	4.69	0.82	ppb
Cobalt	59-2	3.95	4.03	4.14	4.04	2.37	ppb
Copper	63-2	6.34	6.36	6.48	6.39	1.24	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				113		%
Holmium	165-2				110		%
Indium	115-1				106		%
Indium	115-2				105		%
Iron	56-2	8688.50	8694.13	8845.15	8742.59	1.02	ppb
Iron	57-2	10274.24	10387.98	10691.70	10451.30	2.06	ppb
Iron	54-2	8770.31	8559.41	8727.31	8685.68	1.28	ppb
Krypton	83-1						cps

Reviewed By:Mohan
On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4879-14	Instrumnet Name :	P7
Client Sample ID :	E29Y2	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 13:24:46	DataFile Name :	072SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	9.11	9.40	9.62	9.38	2.69	ppb
Lead	207-1	8.15	8.39	8.43	8.32	1.80	ppb
Lead	208-1	8.52	8.73	8.78	8.67	1.59	ppb
Lithium	6-1				92		%
Magnesium	24-2	96880.73	96921.09	98792.02	97531.28	1.12	ppb
Manganese	55-2	535.23	530.70	536.87	534.26	0.60	ppb
Molybdenum	94-1	1.55	1.60	1.62	1.59	2.24	ppb
Molybdenum	95-1	0.56	0.55	0.58	0.57	2.71	ppb
Molybdenum	96-1	0.70	0.71	0.70	0.70	0.91	ppb
Molybdenum	97-1	0.53	0.55	0.58	0.55	4.17	ppb
Molybdenum	98-1	0.53	0.57	0.57	0.56	3.81	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	6.62	6.90	6.96	6.83	2.61	ppb
Phosphorus	31-2	530.98	540.62	546.02	539.21	1.41	ppb
Potassium	39-2	384.30	383.44	395.02	387.59	1.66	ppb
Rhodium	103-1				103		%
Rhodium	103-2				104		%
Scandium	45-1				105		%
Scandium	45-2				106		%
Selenium	82-1	0.50	0.72	0.46	0.56	24.91	ppb
Selenium	77-2	6.12	3.86	5.11	5.03	22.58	ppb
Selenium	78-2	1.66	0.88	1.18	1.24	31.72	ppb
Silicon	28-1	304.81	305.14	309.20	306.39	0.80	ppb
Silver	107-1	0.03	0.04	0.04	0.04	10.65	ppb
Silver	109-1	0.04	0.04	0.04	0.04	12.81	ppb
Sodium	23-2	297.89	301.22	310.16	303.09	2.09	ppb
Strontium	86-1	5732.00	6017.50	6046.63	5932.04	2.93	ppb
Strontium	88-1	5787.48	5951.55	5957.35	5898.79	1.63	ppb
Sulfur	34-1	858.37	807.68	834.17	833.41	3.04	ppb
Terbium	159-1				111		%
Terbium	159-2				107		%
Thallium	203-1	0.11	0.11	0.11	0.11	2.05	ppb
Thallium	205-1	0.11	0.11	0.11	0.11	3.12	ppb
Tin	118-1	0.06	0.07	0.10	0.08	30.23	ppb
Titanium	47-1	28.58	29.43	29.06	29.03	1.47	ppb

Reviewed By:Mohan
On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4879-14	Instrumnet Name :	P7
Client Sample ID :	E29Y2	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 13:24:46	DataFile Name :	072SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	1.42	1.43	1.45	1.43	1.32	ppb
Vanadium	51-2	7.99	8.35	8.40	8.25	2.69	ppb
Yttrium	89-1				111		%
Yttrium	89-2				110		%
Zinc	66-2	21.05	21.61	22.46	21.71	3.26	ppb
Zirconium	90-1	0.62	0.66	0.67	0.65	3.53	ppb
Zirconium	91-1	0.65	0.66	0.82	0.71	13.72	ppb

Reviewed By:Mohan
On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	CCV006	Instrumnet Name :	P7
Client Sample ID :	CCV006	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 13:28:09	DataFile Name :	073CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	49508.96	50524.35	50392.70	50142.00	1.10	ppb
Antimony	121-1	500.82	513.18	525.52	513.17	2.41	ppb
Arsenic	75-2	537.15	533.54	534.47	535.05	0.35	ppb
Barium	135-1	2482.84	2532.95	2566.50	2527.43	1.67	ppb
Barium	137-1	2512.39	2549.41	2585.10	2548.97	1.43	ppb
Beryllium	9-1	507.17	505.02	535.49	515.89	3.30	ppb
Bismuth	209-1				105		%
Bismuth	209-2				98		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	514.48	520.78	528.67	521.31	1.36	ppb
Cadmium	106-1	511.19	520.09	525.63	518.97	1.40	ppb
Cadmium	111-1	517.13	525.82	532.06	525.00	1.43	ppb
Calcium	43-1	245505.33	253416.00	255847.49	251589.61	2.15	ppb
Calcium	44-1	243868.81	254512.33	255642.85	251341.33	2.58	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	510.25	522.63	519.55	517.48	1.25	ppb
Cobalt	59-2	523.62	533.97	530.36	529.32	0.99	ppb
Copper	63-2	5299.49	5398.55	5262.47	5320.17	1.32	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				112		%
Holmium	165-2				107		%
Indium	115-1				104		%
Indium	115-2				99		%
Iron	56-2	126318.85	129751.02	129235.50	128435.13	1.44	ppb
Iron	57-2	125963.70	130972.70	128261.76	128399.39	1.95	ppb
Iron	54-2	126022.34	128188.66	126978.93	127063.31	0.85	ppb
Krypton	83-1						cps

Reviewed By:Mohan
On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	CCV006	Instrumnet Name :	P7
Client Sample ID :	CCV006	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 13:28:09	DataFile Name :	073CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	2538.39	2609.38	2635.82	2594.53	1.94	ppb
Lead	207-1	2505.05	2558.95	2602.89	2555.63	1.92	ppb
Lead	208-1	2523.93	2572.54	2615.78	2570.75	1.79	ppb
Lithium	6-1				95		%
Magnesium	24-2	247022.18	254765.91	249477.95	250422.01	1.58	ppb
Manganese	55-2	5037.22	5161.51	5145.85	5114.86	1.32	ppb
Molybdenum	94-1	4933.62	5057.38	5113.01	5034.67	1.82	ppb
Molybdenum	95-1	4959.22	5092.24	5156.21	5069.23	1.98	ppb
Molybdenum	96-1	4929.03	5098.89	5144.33	5057.42	2.24	ppb
Molybdenum	97-1	4931.50	5115.67	5159.94	5069.04	2.39	ppb
Molybdenum	98-1	5007.43	5133.66	5182.92	5108.01	1.77	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	512.40	527.97	517.72	519.36	1.52	ppb
Phosphorus	31-2	10085.03	10285.86	10130.36	10167.08	1.04	ppb
Potassium	39-2	123038.12	126936.66	123733.03	124569.27	1.67	ppb
Rhodium	103-1				99		%
Rhodium	103-2				96		%
Scandium	45-1				104		%
Scandium	45-2				101		%
Selenium	82-1	499.59	513.09	521.05	511.24	2.12	ppb
Selenium	77-2	531.29	523.14	499.24	517.89	3.22	ppb
Selenium	78-2	523.38	520.50	515.18	519.69	0.80	ppb
Silicon	28-1	376.69	395.62	401.01	391.11	3.27	ppb
Silver	107-1	510.69	515.33	521.79	515.94	1.08	ppb
Silver	109-1	515.01	517.53	524.64	519.06	0.96	ppb
Sodium	23-2	253174.09	262106.24	253713.80	256331.38	1.95	ppb
Strontium	86-1	12438.57	12806.71	13041.68	12762.32	2.38	ppb
Strontium	88-1	12567.40	12867.61	12961.26	12798.76	1.61	ppb
Sulfur	34-1	9985.65	10651.56	10684.44	10440.55	3.78	ppb
Terbium	159-1				110		%
Terbium	159-2				105		%
Thallium	203-1	505.61	515.98	526.38	515.99	2.01	ppb
Thallium	205-1	518.51	520.71	523.35	520.86	0.46	ppb
Tin	118-1	495.06	501.51	514.76	503.78	1.99	ppb
Titanium	47-1	4879.94	5024.86	5131.94	5012.25	2.52	ppb

Reviewed By:Mohan
On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	CCV006	Instrumnet Name :	P7
Client Sample ID :	CCV006	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 13:28:09	DataFile Name :	073CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	502.23	516.13	518.77	512.38	1.73	ppb
Vanadium	51-2	520.84	532.95	526.91	526.90	1.15	ppb
Yttrium	89-1				108		%
Yttrium	89-2				104		%
Zinc	66-2	5161.69	5292.58	5203.45	5219.24	1.28	ppb
Zirconium	90-1	495.75	512.24	513.40	507.13	1.95	ppb
Zirconium	91-1	497.59	511.63	511.75	506.99	1.61	ppb

Reviewed By:Mohan
On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	CCB006	Instrumnet Name :	P7
Client Sample ID :	CCB006	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 13:30:51	DataFile Name :	074CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	-0.04	-0.03	-0.31	-0.13		ppb
Antimony	121-1	0.22	0.24	0.27	0.24	9.35	ppb
Arsenic	75-2	0.01	0.00	0.01	0.01	53.92	ppb
Barium	135-1	0.36	0.17	0.05	0.19	82.39	ppb
Barium	137-1	0.40	0.14	0.06	0.20	87.23	ppb
Beryllium	9-1	0.08	0.08	0.03	0.06	49.38	ppb
Bismuth	209-1				110		%
Bismuth	209-2				108		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	0.17	0.09	-0.01	0.08	107.57	ppb
Cadmium	106-1	-1.27	-1.08	-1.38	-1.25		ppb
Cadmium	111-1	-0.01	-0.03	-0.08	-0.04		ppb
Calcium	43-1	39.43	6.21	-3.66	13.99	161.32	ppb
Calcium	44-1	35.85	4.88	-7.53	11.07	201.87	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.01	0.00	-0.01	0.00		ppb
Cobalt	59-2	-0.01	-0.01	-0.01	-0.01		ppb
Copper	63-2	0.18	0.17	0.18	0.18	5.77	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				107		%
Holmium	165-2				108		%
Indium	115-1				105		%
Indium	115-2				105		%
Iron	56-2	0.99	0.65	0.61	0.75	27.38	ppb
Iron	57-2	0.39	0.02	0.17	0.19	94.43	ppb
Iron	54-2	0.96	1.41	0.82	1.06	28.98	ppb
Krypton	83-1						cps

Reviewed By:Mohan
On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	CCB006	Instrumnet Name :	P7
Client Sample ID :	CCB006	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 13:30:51	DataFile Name :	074CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	0.42	0.19	0.08	0.23	75.16	ppb
Lead	207-1	0.41	0.16	0.08	0.22	79.56	ppb
Lead	208-1	0.41	0.18	0.08	0.22	77.09	ppb
Lithium	6-1				95		%
Magnesium	24-2	1.70	0.94	0.84	1.16	40.33	ppb
Manganese	55-2	0.00	0.01	0.00	0.00	261.45	ppb
Molybdenum	94-1	0.92	0.50	0.37	0.60	48.32	ppb
Molybdenum	95-1	0.82	0.40	0.22	0.48	64.22	ppb
Molybdenum	96-1	0.81	0.41	0.26	0.49	57.20	ppb
Molybdenum	97-1	0.82	0.42	0.24	0.49	60.76	ppb
Molybdenum	98-1	0.83	0.40	0.24	0.49	62.16	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	-0.07	-0.05	-0.05	-0.06		ppb
Phosphorus	31-2	-21.50	-21.31	-19.99	-20.93		ppb
Potassium	39-2	5.04	3.43	3.56	4.01	22.32	ppb
Rhodium	103-1				105		%
Rhodium	103-2				106		%
Scandium	45-1				100		%
Scandium	45-2				100		%
Selenium	82-1	0.18	0.18	0.22	0.19	11.80	ppb
Selenium	77-2	0.00	0.18	0.00	0.06	173.21	ppb
Selenium	78-2	0.72	0.13	0.22	0.36	89.01	ppb
Silicon	28-1	-1.26	-3.58	-4.33	-3.06		ppb
Silver	107-1	0.10	0.05	0.03	0.06	62.20	ppb
Silver	109-1	0.09	0.05	0.03	0.06	60.99	ppb
Sodium	23-2	18.58	17.64	17.59	17.94	3.12	ppb
Strontium	86-1	1.87	0.83	-0.04	0.89	107.74	ppb
Strontium	88-1	1.76	0.76	0.22	0.91	85.27	ppb
Sulfur	34-1	-112.62	-319.64	-409.05	-280.44		ppb
Terbium	159-1				107		%
Terbium	159-2				106		%
Thallium	203-1	0.13	0.07	0.06	0.09	39.48	ppb
Thallium	205-1	0.13	0.08	0.06	0.09	40.89	ppb
Tin	118-1	0.08	0.02	0.00	0.04	119.46	ppb
Titanium	47-1	0.74	0.32	0.12	0.39	80.42	ppb

Reviewed By:Mohan
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Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	CCB006	Instrumnet Name :	P7
Client Sample ID :	CCB006	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 13:30:51	DataFile Name :	074CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	0.07	0.03	0.01	0.04	78.60	ppb
Vanadium	51-2	0.00	0.00	0.00	0.00	32.96	ppb
Yttrium	89-1				105		%
Yttrium	89-2				104		%
Zinc	66-2	-0.19	-0.16	0.08	-0.09		ppb
Zirconium	90-1	0.15	0.10	0.11	0.12	18.83	ppb
Zirconium	91-1	0.16	0.11	0.11	0.12	21.83	ppb

Reviewed By:Mohan
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Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4879-15	Instrumnet Name :	P7
Client Sample ID :	E29Y3	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 13:34:52	DataFile Name :	075SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	2729.47	2603.29	2583.24	2638.67	3.00	ppb
Antimony	121-1	0.16	0.17	0.19	0.17	9.06	ppb
Arsenic	75-2	8.05	7.83	7.88	7.92	1.44	ppb
Barium	135-1	54.28	53.46	53.53	53.76	0.85	ppb
Barium	137-1	54.31	54.33	54.43	54.35	0.12	ppb
Beryllium	9-1	0.27	0.28	0.24	0.26	6.25	ppb
Bismuth	209-1				107		%
Bismuth	209-2				104		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	0.33	0.35	0.40	0.36	9.84	ppb
Cadmium	106-1	-1.13	-0.44	-0.17	-0.58		ppb
Cadmium	111-1	0.09	0.16	0.18	0.14	34.31	ppb
Calcium	43-1	274989.84	274801.78	273396.42	274396.01	0.32	ppb
Calcium	44-1	276551.10	273467.48	274037.28	274685.28	0.60	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	7.09	6.82	6.91	6.94	1.93	ppb
Cobalt	59-2	6.77	6.70	6.71	6.73	0.52	ppb
Copper	63-2	12.57	12.36	12.30	12.41	1.12	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				112		%
Holmium	165-2				111		%
Indium	115-1				104		%
Indium	115-2				106		%
Iron	56-2	13614.93	13476.59	13350.95	13480.82	0.98	ppb
Iron	57-2	14821.77	14622.61	14594.85	14679.74	0.84	ppb
Iron	54-2	13312.02	13263.25	13075.73	13217.00	0.94	ppb
Krypton	83-1						cps

Reviewed By:Mohan
On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4879-15	Instrumnet Name :	P7
Client Sample ID :	E29Y3	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 13:34:52	DataFile Name :	075SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	13.77	13.91	13.83	13.83	0.52	ppb
Lead	207-1	12.52	12.49	12.49	12.50	0.16	ppb
Lead	208-1	12.94	12.94	13.03	12.97	0.37	ppb
Lithium	6-1				92		%
Magnesium	24-2	111527.73	111759.30	110111.07	111132.70	0.80	ppb
Manganese	55-2	604.96	596.80	579.99	593.92	2.14	ppb
Molybdenum	94-1	3.77	3.89	4.14	3.93	4.79	ppb
Molybdenum	95-1	0.97	0.98	1.00	0.98	1.36	ppb
Molybdenum	96-1	1.37	1.32	1.39	1.36	2.66	ppb
Molybdenum	97-1	1.00	0.99	0.99	1.00	0.68	ppb
Molybdenum	98-1	0.96	0.97	0.98	0.97	1.51	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	13.18	13.28	12.79	13.08	1.98	ppb
Phosphorus	31-2	679.64	676.16	660.77	672.19	1.49	ppb
Potassium	39-2	622.07	628.18	621.21	623.82	0.61	ppb
Rhodium	103-1				102		%
Rhodium	103-2				106		%
Scandium	45-1				104		%
Scandium	45-2				106		%
Selenium	82-1	0.81	0.77	0.81	0.80	3.16	ppb
Selenium	77-2	5.72	5.41	6.60	5.91	10.49	ppb
Selenium	78-2	2.21	1.02	1.45	1.56	38.64	ppb
Silicon	28-1	566.57	548.72	568.56	561.28	1.95	ppb
Silver	107-1	0.07	0.06	0.06	0.06	11.06	ppb
Silver	109-1	0.07	0.06	0.06	0.06	9.35	ppb
Sodium	23-2	309.81	306.95	303.41	306.72	1.05	ppb
Strontium	86-1	4875.81	4735.40	4762.72	4791.31	1.55	ppb
Strontium	88-1	4829.93	4776.87	4807.49	4804.77	0.55	ppb
Sulfur	34-1	1388.03	1298.68	1332.54	1339.75	3.37	ppb
Terbium	159-1				110		%
Terbium	159-2				108		%
Thallium	203-1	0.23	0.18	0.17	0.19	15.43	ppb
Thallium	205-1	0.22	0.19	0.17	0.20	11.50	ppb
Tin	118-1	0.20	0.17	0.19	0.19	6.37	ppb
Titanium	47-1	57.19	57.37	57.85	57.47	0.60	ppb

Reviewed By:Mohan
On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4879-15	Instrumnet Name :	P7
Client Sample ID :	E29Y3	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 13:34:52	DataFile Name :	075SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	1.44	1.44	1.43	1.44	0.53	ppb
Vanadium	51-2	11.03	11.04	10.93	11.00	0.52	ppb
Yttrium	89-1				111		%
Yttrium	89-2				111		%
Zinc	66-2	34.37	33.07	33.40	33.61	2.00	ppb
Zirconium	90-1	1.79	1.72	1.72	1.74	2.18	ppb
Zirconium	91-1	1.73	1.74	1.77	1.75	1.28	ppb

Reviewed By:Mohan
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Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4879-16	Instrumnet Name :	P7
Client Sample ID :	E29Y4	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 13:38:03	DataFile Name :	076SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	1872.79	1903.01	1858.61	1878.14	1.21	ppb
Antimony	121-1	0.09	0.10	0.11	0.10	6.51	ppb
Arsenic	75-2	3.98	3.96	4.08	4.01	1.62	ppb
Barium	135-1	37.84	39.10	39.23	38.72	1.98	ppb
Barium	137-1	37.59	39.20	39.92	38.90	3.07	ppb
Beryllium	9-1	0.20	0.23	0.18	0.20	11.72	ppb
Bismuth	209-1				112		%
Bismuth	209-2				108		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	0.22	0.15	0.16	0.18	20.27	ppb
Cadmium	106-1	-0.45	-0.22	-0.51	-0.39		ppb
Cadmium	111-1	0.11	0.17	0.14	0.14	20.35	ppb
Calcium	43-1	162290.14	170606.16	174516.62	169137.64	3.69	ppb
Calcium	44-1	163277.42	172075.29	174378.32	169910.34	3.45	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	4.87	5.16	4.86	4.96	3.37	ppb
Cobalt	59-2	4.28	4.39	4.20	4.29	2.16	ppb
Copper	63-2	8.91	8.86	8.76	8.84	0.89	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				116		%
Holmium	165-2				113		%
Indium	115-1				111		%
Indium	115-2				107		%
Iron	56-2	8466.06	8348.12	8338.19	8384.12	0.85	ppb
Iron	57-2	9140.23	9290.11	9164.76	9198.37	0.87	ppb
Iron	54-2	8251.27	8390.48	8058.50	8233.42	2.02	ppb
Krypton	83-1						cps

Reviewed By:Mohan
On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4879-16	Instrumnet Name :	P7
Client Sample ID :	E29Y4	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 13:38:03	DataFile Name :	076SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	8.88	9.37	9.34	9.20	3.01	ppb
Lead	207-1	8.04	8.49	8.35	8.29	2.76	ppb
Lead	208-1	8.32	8.75	8.74	8.60	2.86	ppb
Lithium	6-1				95		%
Magnesium	24-2	57975.52	58318.18	57439.86	57911.19	0.76	ppb
Manganese	55-2	352.70	347.70	345.28	348.56	1.09	ppb
Molybdenum	94-1	1.43	1.52	1.60	1.52	5.41	ppb
Molybdenum	95-1	1.14	1.18	1.20	1.17	2.75	ppb
Molybdenum	96-1	1.18	1.26	1.27	1.24	4.15	ppb
Molybdenum	97-1	1.12	1.22	1.18	1.17	4.16	ppb
Molybdenum	98-1	1.16	1.18	1.19	1.17	1.42	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	8.14	8.69	8.12	8.32	3.86	ppb
Phosphorus	31-2	482.33	499.16	471.44	484.31	2.88	ppb
Potassium	39-2	365.24	378.68	367.14	370.35	1.96	ppb
Rhodium	103-1				108		%
Rhodium	103-2				108		%
Scandium	45-1				107		%
Scandium	45-2				106		%
Selenium	82-1	0.63	0.34	0.39	0.45	34.29	ppb
Selenium	77-2	4.18	4.43	4.55	4.39	4.27	ppb
Selenium	78-2	1.17	1.37	0.52	1.02	43.47	ppb
Silicon	28-1	395.04	414.84	423.64	411.17	3.56	ppb
Silver	107-1	0.04	0.04	0.04	0.04	3.14	ppb
Silver	109-1	0.04	0.04	0.04	0.04	3.94	ppb
Sodium	23-2	221.06	230.13	218.98	223.39	2.65	ppb
Strontium	86-1	5864.28	6071.93	6051.34	5995.85	1.91	ppb
Strontium	88-1	5789.19	6047.26	6075.84	5970.77	2.64	ppb
Sulfur	34-1	746.78	848.64	863.46	819.63	7.75	ppb
Terbium	159-1				114		%
Terbium	159-2				109		%
Thallium	203-1	0.12	0.11	0.12	0.12	2.96	ppb
Thallium	205-1	0.12	0.13	0.12	0.12	2.72	ppb
Tin	118-1	2.87	2.94	2.94	2.92	1.49	ppb
Titanium	47-1	37.52	39.86	44.98	40.79	9.36	ppb

Reviewed By:Mohan
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Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4879-16	Instrumnet Name :	P7
Client Sample ID :	E29Y4	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 13:38:03	DataFile Name :	076SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	1.07	1.12	1.11	1.10	2.56	ppb
Vanadium	51-2	7.35	7.54	7.30	7.39	1.72	ppb
Yttrium	89-1				113		%
Yttrium	89-2				112		%
Zinc	66-2	34.84	36.24	34.44	35.17	2.69	ppb
Zirconium	90-1	0.30	0.32	0.31	0.31	3.65	ppb
Zirconium	91-1	0.29	0.30	0.32	0.31	4.18	ppb

Reviewed By:Mohan
On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4879-17	Instrumnet Name :	P7
Client Sample ID :	E29Y5	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 13:41:13	DataFile Name :	077SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	2103.21	1967.35	1998.27	2022.94	3.52	ppb
Antimony	121-1	0.08	0.09	0.09	0.09	7.02	ppb
Arsenic	75-2	4.72	4.88	4.80	4.80	1.68	ppb
Barium	135-1	35.20	34.12	33.87	34.40	2.06	ppb
Barium	137-1	35.24	34.33	34.54	34.70	1.38	ppb
Beryllium	9-1	0.24	0.17	0.19	0.20	15.76	ppb
Bismuth	209-1				110		%
Bismuth	209-2				107		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	0.19	0.12	0.14	0.15	26.63	ppb
Cadmium	106-1	0.20	-0.31	-0.61	-0.24		ppb
Cadmium	111-1	0.16	0.12	0.10	0.13	23.37	ppb
Calcium	43-1	177519.84	167324.22	170486.30	171776.78	3.04	ppb
Calcium	44-1	179723.07	167715.42	171177.58	172872.02	3.58	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	4.92	4.82	5.04	4.93	2.25	ppb
Cobalt	59-2	4.38	4.37	4.51	4.42	1.75	ppb
Copper	63-2	7.83	7.69	8.05	7.86	2.31	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				114		%
Holmium	165-2				110		%
Indium	115-1				109		%
Indium	115-2				107		%
Iron	56-2	9071.97	8782.31	9068.56	8974.28	1.85	ppb
Iron	57-2	9837.42	9563.14	9973.66	9791.40	2.14	ppb
Iron	54-2	8973.80	8668.93	9088.20	8910.31	2.43	ppb
Krypton	83-1						cps

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Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4879-17	Instrumnet Name :	P7
Client Sample ID :	E29Y5	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 13:41:13	DataFile Name :	077SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	9.38	9.22	8.95	9.18	2.41	ppb
Lead	207-1	8.33	8.13	8.15	8.20	1.36	ppb
Lead	208-1	8.71	8.53	8.40	8.55	1.81	ppb
Lithium	6-1				94		%
Magnesium	24-2	62028.58	59139.46	62571.42	61246.49	3.01	ppb
Manganese	55-2	389.77	379.04	400.88	389.90	2.80	ppb
Molybdenum	94-1	1.04	1.25	1.03	1.11	11.52	ppb
Molybdenum	95-1	0.63	0.83	0.60	0.68	18.37	ppb
Molybdenum	96-1	0.71	0.93	0.68	0.77	17.50	ppb
Molybdenum	97-1	0.61	0.73	0.62	0.66	10.38	ppb
Molybdenum	98-1	0.63	0.78	0.62	0.68	13.22	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	8.37	8.24	8.70	8.43	2.79	ppb
Phosphorus	31-2	405.68	426.12	442.01	424.60	4.29	ppb
Potassium	39-2	445.33	433.07	459.74	446.05	2.99	ppb
Rhodium	103-1				105		%
Rhodium	103-2				109		%
Scandium	45-1				105		%
Scandium	45-2				105		%
Selenium	82-1	0.52	0.50	0.18	0.40	48.58	ppb
Selenium	77-2	4.00	3.29	5.11	4.13	22.21	ppb
Selenium	78-2	1.05	1.06	0.80	0.97	15.47	ppb
Silicon	28-1	481.67	453.45	455.22	463.45	3.41	ppb
Silver	107-1	0.04	0.05	0.04	0.04	17.84	ppb
Silver	109-1	0.04	0.04	0.04	0.04	8.38	ppb
Sodium	23-2	219.13	216.60	232.85	222.86	3.92	ppb
Strontium	86-1	4898.54	4765.13	4630.22	4764.63	2.82	ppb
Strontium	88-1	4855.50	4765.11	4727.15	4782.59	1.38	ppb
Sulfur	34-1	1058.94	776.41	790.75	875.37	18.18	ppb
Terbium	159-1				113		%
Terbium	159-2				110		%
Thallium	203-1	0.10	0.10	0.11	0.10	4.82	ppb
Thallium	205-1	0.11	0.11	0.11	0.11	3.60	ppb
Tin	118-1	0.28	0.25	0.26	0.26	6.11	ppb
Titanium	47-1	44.92	44.09	43.91	44.31	1.22	ppb

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Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4879-17	Instrumnet Name :	P7
Client Sample ID :	E29Y5	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 13:41:13	DataFile Name :	077SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	1.07	1.06	1.06	1.06	0.82	ppb
Vanadium	51-2	8.11	7.95	8.14	8.07	1.28	ppb
Yttrium	89-1				111		%
Yttrium	89-2				110		%
Zinc	66-2	28.48	27.44	28.32	28.08	1.99	ppb
Zirconium	90-1	0.30	0.33	0.31	0.31	4.21	ppb
Zirconium	91-1	0.31	0.34	0.30	0.32	6.87	ppb

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Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4879-18	Instrumnet Name :	P7
Client Sample ID :	E29Y9	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 13:44:25	DataFile Name :	078SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	1018.06	1058.38	959.11	1011.85	4.93	ppb
Antimony	121-1	0.06	0.06	0.07	0.06	4.07	ppb
Arsenic	75-2	3.87	3.66	3.63	3.72	3.54	ppb
Barium	135-1	28.16	28.31	28.27	28.25	0.27	ppb
Barium	137-1	28.76	28.50	28.63	28.63	0.44	ppb
Beryllium	9-1	0.13	0.13	0.12	0.13	4.56	ppb
Bismuth	209-1				109		%
Bismuth	209-2				100		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	0.15	0.16	0.22	0.18	22.73	ppb
Cadmium	106-1	-0.05	-0.20	-0.60	-0.28		ppb
Cadmium	111-1	0.11	0.09	0.05	0.08	32.18	ppb
Calcium	43-1	258354.71	263373.08	266069.47	262599.09	1.49	ppb
Calcium	44-1	258930.03	264570.08	266126.30	263208.80	1.44	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	3.89	4.03	3.70	3.87	4.21	ppb
Cobalt	59-2	2.81	2.89	2.68	2.79	3.78	ppb
Copper	63-2	5.07	5.06	4.69	4.94	4.40	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				114		%
Holmium	165-2				106		%
Indium	115-1				108		%
Indium	115-2				101		%
Iron	56-2	6411.47	6308.17	5995.01	6238.22	3.48	ppb
Iron	57-2	7829.53	7705.51	7266.90	7600.64	3.89	ppb
Iron	54-2	6465.86	6246.63	5932.26	6214.92	4.32	ppb
Krypton	83-1						cps

Reviewed By:Mohan
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Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4879-18	Instrumnet Name :	P7
Client Sample ID :	E29Y9	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 13:44:25	DataFile Name :	078SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	6.70	6.58	6.55	6.61	1.21	ppb
Lead	207-1	5.81	5.85	5.79	5.82	0.51	ppb
Lead	208-1	6.09	6.09	6.04	6.07	0.55	ppb
Lithium	6-1				92		%
Magnesium	24-2	112497.40	108895.24	104067.15	108486.60	3.90	ppb
Manganese	55-2	435.32	423.52	404.75	421.20	3.66	ppb
Molybdenum	94-1	1.14	1.14	1.18	1.15	1.92	ppb
Molybdenum	95-1	0.40	0.38	0.40	0.39	2.17	ppb
Molybdenum	96-1	0.50	0.49	0.50	0.50	1.71	ppb
Molybdenum	97-1	0.41	0.40	0.36	0.39	6.56	ppb
Molybdenum	98-1	0.39	0.38	0.40	0.39	1.95	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	4.60	4.64	4.45	4.56	2.23	ppb
Phosphorus	31-2	327.19	326.20	311.39	321.59	2.75	ppb
Potassium	39-2	342.84	346.52	314.71	334.69	5.20	ppb
Rhodium	103-1				105		%
Rhodium	103-2				101		%
Scandium	45-1				106		%
Scandium	45-2				101		%
Selenium	82-1	0.85	0.37	0.15	0.46	79.01	ppb
Selenium	77-2	3.11	4.55	3.50	3.72	20.02	ppb
Selenium	78-2	0.66	0.91	0.98	0.85	19.83	ppb
Silicon	28-1	213.29	207.65	216.05	212.33	2.02	ppb
Silver	107-1	0.03	0.03	0.03	0.03	15.69	ppb
Silver	109-1	0.03	0.03	0.03	0.03	6.04	ppb
Sodium	23-2	312.65	311.26	290.18	304.69	4.13	ppb
Strontium	86-1	4436.88	4406.80	4509.82	4451.17	1.19	ppb
Strontium	88-1	4412.32	4386.54	4455.14	4418.00	0.78	ppb
Sulfur	34-1	591.02	621.55	669.87	627.48	6.34	ppb
Terbium	159-1				114		%
Terbium	159-2				104		%
Thallium	203-1	0.06	0.05	0.06	0.06	8.53	ppb
Thallium	205-1	0.06	0.06	0.06	0.06	3.27	ppb
Tin	118-1	0.02	0.04	0.02	0.03	50.10	ppb
Titanium	47-1	19.70	20.10	21.08	20.29	3.51	ppb

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Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4879-18	Instrumnet Name :	P7
Client Sample ID :	E29Y9	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 13:44:25	DataFile Name :	078SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	1.13	1.13	1.12	1.13	0.40	ppb
Vanadium	51-2	6.79	7.04	6.55	6.79	3.57	ppb
Yttrium	89-1				112		%
Yttrium	89-2				105		%
Zinc	66-2	14.49	15.63	13.85	14.65	6.16	ppb
Zirconium	90-1	0.46	0.46	0.49	0.47	3.45	ppb
Zirconium	91-1	0.47	0.62	0.46	0.51	17.24	ppb

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LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4879-19	Instrumnet Name :	P7
Client Sample ID :	E29Z0	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 13:47:35	DataFile Name :	079SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	1009.14	1027.77	995.59	1010.83	1.60	ppb
Antimony	121-1	0.05	0.06	0.07	0.06	17.29	ppb
Arsenic	75-2	3.47	3.21	3.44	3.37	4.30	ppb
Barium	135-1	33.20	33.65	34.11	33.65	1.35	ppb
Barium	137-1	33.56	34.02	34.13	33.90	0.89	ppb
Beryllium	9-1	0.16	0.15	0.17	0.16	5.06	ppb
Bismuth	209-1				107		%
Bismuth	209-2				104		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	0.19	0.22	0.13	0.18	25.38	ppb
Cadmium	106-1	0.45	0.41	-0.25	0.20	195.86	ppb
Cadmium	111-1	0.17	0.17	0.13	0.16	16.12	ppb
Calcium	43-1	275426.73	278028.18	284335.37	279263.42	1.64	ppb
Calcium	44-1	279564.32	278941.09	285010.91	281172.10	1.19	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	4.46	4.46	4.39	4.44	0.92	ppb
Cobalt	59-2	2.92	2.99	2.91	2.94	1.48	ppb
Copper	63-2	5.07	5.14	5.12	5.11	0.63	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				113		%
Holmium	165-2				111		%
Indium	115-1				108		%
Indium	115-2				107		%
Iron	56-2	5512.84	5620.61	5534.24	5555.90	1.03	ppb
Iron	57-2	6900.54	7134.16	6994.98	7009.89	1.68	ppb
Iron	54-2	5492.94	5610.44	5558.85	5554.08	1.06	ppb
Krypton	83-1						cps

Reviewed By:Mohan
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Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4879-19	Instrumnet Name :	P7
Client Sample ID :	E29Z0	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 13:47:35	DataFile Name :	079SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	8.11	8.23	8.29	8.21	1.07	ppb
Lead	207-1	7.16	7.27	7.31	7.24	1.10	ppb
Lead	208-1	7.48	7.57	7.63	7.56	0.99	ppb
Lithium	6-1				90		%
Magnesium	24-2	114720.83	116657.40	114892.87	115423.70	0.93	ppb
Manganese	55-2	446.02	440.96	444.02	443.66	0.57	ppb
Molybdenum	94-1	0.93	0.95	0.94	0.94	1.13	ppb
Molybdenum	95-1	0.35	0.35	0.36	0.35	2.80	ppb
Molybdenum	96-1	0.43	0.44	0.45	0.44	2.10	ppb
Molybdenum	97-1	0.35	0.34	0.36	0.35	2.30	ppb
Molybdenum	98-1	0.35	0.36	0.37	0.36	2.70	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	4.90	5.11	4.84	4.95	2.82	ppb
Phosphorus	31-2	378.44	378.50	360.34	372.43	2.81	ppb
Potassium	39-2	306.31	310.93	316.38	311.21	1.62	ppb
Rhodium	103-1				104		%
Rhodium	103-2				107		%
Scandium	45-1				106		%
Scandium	45-2				104		%
Selenium	82-1	0.42	0.26	0.50	0.39	31.40	ppb
Selenium	77-2	4.19	2.64	2.64	3.16	28.41	ppb
Selenium	78-2	0.72	0.70	0.93	0.78	16.37	ppb
Silicon	28-1	203.24	230.99	208.98	214.40	6.83	ppb
Silver	107-1	0.03	0.03	0.04	0.03	3.82	ppb
Silver	109-1	0.03	0.03	0.03	0.03	3.09	ppb
Sodium	23-2	315.87	314.52	317.07	315.82	0.40	ppb
Strontium	86-1	5194.66	5278.15	5304.15	5258.98	1.09	ppb
Strontium	88-1	5173.77	5222.59	5272.59	5222.98	0.95	ppb
Sulfur	34-1	444.62	437.63	488.72	456.99	6.06	ppb
Terbium	159-1				112		%
Terbium	159-2				109		%
Thallium	203-1	0.06	0.07	0.06	0.06	7.73	ppb
Thallium	205-1	0.07	0.06	0.07	0.07	2.63	ppb
Tin	118-1	0.00	0.02	0.02	0.01	96.97	ppb
Titanium	47-1	15.43	17.58	15.10	16.04	8.39	ppb

Reviewed By:Mohan
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Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4879-19	Instrumnet Name :	P7
Client Sample ID :	E29Z0	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 13:47:35	DataFile Name :	079SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	1.18	1.18	1.23	1.20	2.18	ppb
Vanadium	51-2	7.34	7.41	7.27	7.34	0.98	ppb
Yttrium	89-1				112		%
Yttrium	89-2				111		%
Zinc	66-2	17.04	17.20	16.75	17.00	1.34	ppb
Zirconium	90-1	0.35	0.35	0.35	0.35	1.27	ppb
Zirconium	91-1	0.36	0.34	0.39	0.36	6.46	ppb

Reviewed By:Mohan
On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4879-20	Instrumnet Name :	P7
Client Sample ID :	E29Y6	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 13:50:46	DataFile Name :	080SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	1627.58	1629.47	1583.00	1613.35	1.63	ppb
Antimony	121-1	0.07	0.07	0.07	0.07	0.54	ppb
Arsenic	75-2	4.53	4.42	4.67	4.54	2.79	ppb
Barium	135-1	111.07	112.70	112.81	112.19	0.87	ppb
Barium	137-1	111.95	112.06	113.20	112.40	0.62	ppb
Beryllium	9-1	0.25	0.20	0.21	0.22	12.78	ppb
Bismuth	209-1				106		%
Bismuth	209-2				102		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	0.17	0.22	0.22	0.20	14.84	ppb
Cadmium	106-1	-0.13	-0.71	-0.42	-0.42		ppb
Cadmium	111-1	0.17	0.12	0.16	0.15	16.59	ppb
Calcium	43-1	350864.38	363830.84	356826.05	357173.76	1.82	ppb
Calcium	44-1	353610.41	365514.20	361722.91	360282.50	1.69	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	4.48	4.57	4.48	4.51	1.20	ppb
Cobalt	59-2	3.33	3.35	3.31	3.33	0.63	ppb
Copper	63-2	7.23	7.36	7.29	7.29	0.82	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				112		%
Holmium	165-2				109		%
Indium	115-1				106		%
Indium	115-2				105		%
Iron	56-2	7827.82	7869.26	7559.31	7752.13	2.17	ppb
Iron	57-2	9835.06	9599.88	9332.31	9589.08	2.62	ppb
Iron	54-2	7707.17	7846.21	7498.02	7683.80	2.28	ppb
Krypton	83-1						cps

Reviewed By:Mohan
On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4879-20	Instrumnet Name :	P7
Client Sample ID :	E29Y6	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 13:50:46	DataFile Name :	080SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	7.95	8.10	8.09	8.05	1.01	ppb
Lead	207-1	7.11	7.20	7.11	7.14	0.76	ppb
Lead	208-1	7.41	7.49	7.43	7.44	0.55	ppb
Lithium	6-1				89		%
Magnesium	24-2	136358.87	140576.04	135105.29	137346.73	2.09	ppb
Manganese	55-2	611.66	617.50	592.37	607.18	2.17	ppb
Molybdenum	94-1	0.79	0.81	0.80	0.80	1.09	ppb
Molybdenum	95-1	0.42	0.43	0.40	0.42	3.48	ppb
Molybdenum	96-1	0.49	0.51	0.50	0.50	2.11	ppb
Molybdenum	97-1	0.40	0.40	0.43	0.41	4.82	ppb
Molybdenum	98-1	0.42	0.44	0.41	0.42	2.79	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	6.46	6.48	6.19	6.38	2.52	ppb
Phosphorus	31-2	419.88	411.98	406.20	412.69	1.66	ppb
Potassium	39-2	392.84	396.07	385.60	391.51	1.37	ppb
Rhodium	103-1				103		%
Rhodium	103-2				104		%
Scandium	45-1				105		%
Scandium	45-2				105		%
Selenium	82-1	0.98	0.82	0.73	0.84	14.96	ppb
Selenium	77-2	4.51	5.01	3.93	4.48	12.05	ppb
Selenium	78-2	0.74	1.36	1.43	1.18	32.21	ppb
Silicon	28-1	375.22	374.89	371.08	373.73	0.61	ppb
Silver	107-1	0.03	0.03	0.04	0.03	4.43	ppb
Silver	109-1	0.03	0.04	0.04	0.04	9.59	ppb
Sodium	23-2	381.16	385.28	375.16	380.53	1.34	ppb
Strontium	86-1	9618.59	9580.51	9437.39	9545.49	1.00	ppb
Strontium	88-1	9620.20	9473.99	9501.29	9531.83	0.82	ppb
Sulfur	34-1	553.98	575.32	529.17	552.82	4.18	ppb
Terbium	159-1				112		%
Terbium	159-2				108		%
Thallium	203-1	0.08	0.09	0.08	0.08	3.06	ppb
Thallium	205-1	0.09	0.09	0.09	0.09	2.73	ppb
Tin	118-1	0.06	0.04	0.07	0.06	22.34	ppb
Titanium	47-1	22.66	26.02	22.60	23.76	8.23	ppb

Reviewed By:Mohan
On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4879-20	Instrumnet Name :	P7
Client Sample ID :	E29Y6	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 13:50:46	DataFile Name :	080SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	1.37	1.38	1.40	1.38	0.99	ppb
Vanadium	51-2	8.25	8.22	8.10	8.19	1.02	ppb
Yttrium	89-1				112		%
Yttrium	89-2				111		%
Zinc	66-2	23.43	23.32	22.44	23.06	2.37	ppb
Zirconium	90-1	0.25	0.26	0.27	0.26	2.74	ppb
Zirconium	91-1	0.27	0.25	0.26	0.26	3.93	ppb

Reviewed By:Mohan
On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4879-21	Instrumnet Name :	P7
Client Sample ID :	E29Y7	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 13:53:55	DataFile Name :	081SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	3801.65	3790.64	3869.00	3820.43	1.11	ppb
Antimony	121-1	0.08	0.09	0.08	0.09	2.92	ppb
Arsenic	75-2	6.24	6.31	6.47	6.34	1.86	ppb
Barium	135-1	83.86	85.25	85.08	84.73	0.90	ppb
Barium	137-1	86.33	86.15	86.52	86.33	0.22	ppb
Beryllium	9-1	0.37	0.44	0.38	0.40	8.92	ppb
Bismuth	209-1				112		%
Bismuth	209-2				106		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	0.17	0.22	0.16	0.18	17.71	ppb
Cadmium	106-1	0.02	-1.06	-0.71	-0.58		ppb
Cadmium	111-1	0.17	0.11	0.12	0.13	24.23	ppb
Calcium	43-1	131052.51	131630.95	130876.75	131186.74	0.30	ppb
Calcium	44-1	130201.06	132317.71	132201.50	131573.43	0.90	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	6.95	7.00	7.14	7.03	1.41	ppb
Cobalt	59-2	5.89	5.97	6.05	5.97	1.38	ppb
Copper	63-2	14.29	14.34	14.62	14.42	1.24	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				115		%
Holmium	165-2				109		%
Indium	115-1				108		%
Indium	115-2				105		%
Iron	56-2	12404.67	12546.44	12491.53	12480.88	0.57	ppb
Iron	57-2	13007.36	12958.47	13184.62	13050.15	0.91	ppb
Iron	54-2	12155.32	12294.72	12449.58	12299.87	1.20	ppb
Krypton	83-1						cps

Reviewed By:Mohan
On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4879-21	Instrumnet Name :	P7
Client Sample ID :	E29Y7	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 13:53:55	DataFile Name :	081SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	15.64	16.28	15.97	15.96	2.02	ppb
Lead	207-1	14.31	14.90	14.63	14.61	2.03	ppb
Lead	208-1	14.82	15.28	15.14	15.08	1.58	ppb
Lithium	6-1				96		%
Magnesium	24-2	41871.14	41723.10	43076.71	42223.65	1.76	ppb
Manganese	55-2	357.75	366.53	363.86	362.71	1.24	ppb
Molybdenum	94-1	1.25	1.32	1.31	1.29	3.16	ppb
Molybdenum	95-1	0.62	0.65	0.65	0.64	2.46	ppb
Molybdenum	96-1	0.76	0.82	0.77	0.78	3.95	ppb
Molybdenum	97-1	0.64	0.63	0.65	0.64	1.09	ppb
Molybdenum	98-1	0.62	0.65	0.65	0.64	3.15	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	12.03	12.04	12.28	12.12	1.19	ppb
Phosphorus	31-2	429.49	448.75	448.54	442.26	2.50	ppb
Potassium	39-2	440.42	440.96	447.53	442.97	0.89	ppb
Rhodium	103-1				106		%
Rhodium	103-2				106		%
Scandium	45-1				104		%
Scandium	45-2				102		%
Selenium	82-1	0.40	0.72	0.31	0.48	45.61	ppb
Selenium	77-2	6.62	4.06	4.68	5.12	26.10	ppb
Selenium	78-2	0.85	1.18	0.75	0.93	23.83	ppb
Silicon	28-1	798.86	805.78	796.61	800.42	0.60	ppb
Silver	107-1	0.06	0.05	0.06	0.06	5.52	ppb
Silver	109-1	0.06	0.05	0.06	0.06	5.10	ppb
Sodium	23-2	192.32	195.36	199.56	195.74	1.86	ppb
Strontium	86-1	8066.58	8285.29	8098.97	8150.28	1.45	ppb
Strontium	88-1	8025.88	8318.64	8014.81	8119.78	2.12	ppb
Sulfur	34-1	252.73	200.59	188.91	214.08	15.87	ppb
Terbium	159-1				113		%
Terbium	159-2				108		%
Thallium	203-1	0.09	0.11	0.10	0.10	7.48	ppb
Thallium	205-1	0.10	0.10	0.10	0.10	1.07	ppb
Tin	118-1	0.17	0.20	0.19	0.19	7.11	ppb
Titanium	47-1	37.06	37.27	37.38	37.24	0.44	ppb

Reviewed By:Mohan
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Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4879-21	Instrumnet Name :	P7
Client Sample ID :	E29Y7	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 13:53:55	DataFile Name :	081SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	0.91	0.94	0.93	0.93	1.76	ppb
Vanadium	51-2	10.93	11.09	11.22	11.08	1.29	ppb
Yttrium	89-1				111		%
Yttrium	89-2				108		%
Zinc	66-2	40.00	40.25	40.88	40.38	1.13	ppb
Zirconium	90-1	0.40	0.42	0.41	0.41	3.04	ppb
Zirconium	91-1	0.40	0.40	0.43	0.41	5.14	ppb

Reviewed By:Mohan
On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	CCV007	Instrumnet Name :	P7
Client Sample ID :	CCV007	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 13:58:17	DataFile Name :	082CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	49991.15	48559.21	49840.01	49463.46	1.59	ppb
Antimony	121-1	515.47	512.50	519.66	515.88	0.70	ppb
Arsenic	75-2	536.00	533.80	524.67	531.49	1.13	ppb
Barium	135-1	2548.43	2523.30	2587.07	2552.93	1.26	ppb
Barium	137-1	2554.57	2548.21	2567.06	2556.61	0.38	ppb
Beryllium	9-1	496.48	515.79	519.33	510.53	2.41	ppb
Bismuth	209-1				102		%
Bismuth	209-2				97		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	529.58	525.01	527.07	527.22	0.43	ppb
Cadmium	106-1	522.07	525.37	522.72	523.39	0.33	ppb
Cadmium	111-1	534.54	530.32	518.42	527.76	1.58	ppb
Calcium	43-1	248226.33	251885.24	250087.54	250066.37	0.73	ppb
Calcium	44-1	250176.26	250533.48	252536.20	251081.98	0.51	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	511.42	513.49	514.47	513.13	0.30	ppb
Cobalt	59-2	524.97	519.51	524.68	523.05	0.59	ppb
Copper	63-2	5314.90	5236.32	5293.85	5281.69	0.77	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				109		%
Holmium	165-2				106		%
Indium	115-1				100		%
Indium	115-2				100		%
Iron	56-2	127372.57	126177.62	127841.53	127130.57	0.67	ppb
Iron	57-2	126817.94	127749.91	126837.06	127134.97	0.42	ppb
Iron	54-2	126381.80	126112.95	125014.87	125836.54	0.58	ppb
Krypton	83-1						cps

Reviewed By:Mohan
On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	CCV007	Instrumnet Name :	P7
Client Sample ID :	CCV007	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 13:58:17	DataFile Name :	082CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	2623.38	2648.25	2616.69	2629.44	0.63	ppb
Lead	207-1	2588.94	2623.70	2610.76	2607.80	0.67	ppb
Lead	208-1	2608.99	2624.98	2621.70	2618.56	0.32	ppb
Lithium	6-1				97		%
Magnesium	24-2	248736.97	246422.01	248588.28	247915.75	0.52	ppb
Manganese	55-2	5059.91	5029.43	5055.03	5048.12	0.32	ppb
Molybdenum	94-1	5206.71	5125.35	5114.09	5148.72	0.98	ppb
Molybdenum	95-1	5205.56	5125.47	5088.38	5139.80	1.17	ppb
Molybdenum	96-1	5158.17	5169.83	5066.58	5131.53	1.10	ppb
Molybdenum	97-1	5100.15	5167.73	5096.05	5121.31	0.79	ppb
Molybdenum	98-1	5191.63	5151.46	5175.51	5172.87	0.39	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	520.82	508.10	517.83	515.58	1.29	ppb
Phosphorus	31-2	10067.41	10108.04	10128.84	10101.43	0.31	ppb
Potassium	39-2	122995.13	123627.86	121496.60	122706.53	0.89	ppb
Rhodium	103-1				96		%
Rhodium	103-2				96		%
Scandium	45-1				101		%
Scandium	45-2				100		%
Selenium	82-1	521.32	519.72	514.57	518.54	0.68	ppb
Selenium	77-2	523.01	511.99	519.78	518.26	1.09	ppb
Selenium	78-2	524.19	518.40	511.44	518.01	1.23	ppb
Silicon	28-1	397.31	399.59	402.06	399.65	0.59	ppb
Silver	107-1	520.87	520.58	521.17	520.88	0.06	ppb
Silver	109-1	527.67	519.61	521.76	523.01	0.80	ppb
Sodium	23-2	253632.10	256518.89	256525.52	255558.84	0.65	ppb
Strontium	86-1	12957.92	13064.93	12865.81	12962.89	0.77	ppb
Strontium	88-1	12895.01	12970.66	12677.99	12847.88	1.18	ppb
Sulfur	34-1	10660.60	10571.76	10740.72	10657.69	0.79	ppb
Terbium	159-1				108		%
Terbium	159-2				104		%
Thallium	203-1	521.00	525.60	515.36	520.65	0.99	ppb
Thallium	205-1	526.91	532.09	523.33	527.44	0.84	ppb
Tin	118-1	501.20	510.50	513.95	508.55	1.30	ppb
Titanium	47-1	5069.62	5082.78	5126.79	5093.06	0.59	ppb

Reviewed By:Mohan
On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	CCV007	Instrumnet Name :	P7
Client Sample ID :	CCV007	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 13:58:17	DataFile Name :	082CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	517.26	523.83	511.08	517.39	1.23	ppb
Vanadium	51-2	524.68	523.86	520.47	523.00	0.43	ppb
Yttrium	89-1				104		%
Yttrium	89-2				103		%
Zinc	66-2	5204.43	5115.21	5190.57	5170.07	0.93	ppb
Zirconium	90-1	517.70	518.10	513.16	516.32	0.53	ppb
Zirconium	91-1	515.36	512.37	508.59	512.10	0.66	ppb

Reviewed By:Mohan
On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	CCB007	Instrumnet Name :	P7
Client Sample ID :	CCB007	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 14:00:57	DataFile Name :	083CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	-0.07	-0.22	-0.10	-0.13		ppb
Antimony	121-1	0.20	0.23	0.29	0.24	19.76	ppb
Arsenic	75-2	0.02	0.01	0.01	0.02	19.41	ppb
Barium	135-1	0.27	0.14	0.08	0.16	61.99	ppb
Barium	137-1	0.29	0.17	0.06	0.17	67.35	ppb
Beryllium	9-1	0.09	0.07	0.05	0.07	32.31	ppb
Bismuth	209-1				109		%
Bismuth	209-2				109		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	0.07	0.05	0.05	0.06	26.22	ppb
Cadmium	106-1	-0.93	-1.17	-1.83	-1.31		ppb
Cadmium	111-1	0.01	-0.04	-0.11	-0.04		ppb
Calcium	43-1	25.38	13.72	3.47	14.19	77.25	ppb
Calcium	44-1	20.32	9.41	-1.12	9.54	112.42	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.01	-0.01	-0.02	-0.01		ppb
Cobalt	59-2	0.00	0.00	0.00	0.00		ppb
Copper	63-2	0.19	0.15	0.16	0.17	12.02	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				108		%
Holmium	165-2				107		%
Indium	115-1				103		%
Indium	115-2				104		%
Iron	56-2	1.09	0.86	0.65	0.86	25.74	ppb
Iron	57-2	0.38	1.25	0.12	0.58	102.11	ppb
Iron	54-2	1.29	0.49	0.54	0.78	57.66	ppb
Krypton	83-1						cps

Reviewed By:Mohan
On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	CCB007	Instrumnet Name :	P7
Client Sample ID :	CCB007	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 14:00:57	DataFile Name :	083CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	0.33	0.19	0.10	0.21	57.60	ppb
Lead	207-1	0.32	0.19	0.10	0.20	54.74	ppb
Lead	208-1	0.34	0.19	0.09	0.21	59.34	ppb
Lithium	6-1				99		%
Magnesium	24-2	1.65	1.47	1.11	1.41	19.63	ppb
Manganese	55-2	0.04	0.03	-0.06	0.00	1679.54	ppb
Molybdenum	94-1	0.75	0.49	0.44	0.56	29.61	ppb
Molybdenum	95-1	0.67	0.38	0.25	0.43	48.77	ppb
Molybdenum	96-1	0.64	0.40	0.25	0.43	46.75	ppb
Molybdenum	97-1	0.65	0.40	0.26	0.44	45.36	ppb
Molybdenum	98-1	0.64	0.38	0.26	0.43	46.17	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	-0.02	-0.03	-0.05	-0.03		ppb
Phosphorus	31-2	-20.60	-20.39	-19.98	-20.32		ppb
Potassium	39-2	4.93	4.75	4.46	4.71	5.05	ppb
Rhodium	103-1				104		%
Rhodium	103-2				105		%
Scandium	45-1				99		%
Scandium	45-2				99		%
Selenium	82-1	0.26	-0.04	0.22	0.15	110.34	ppb
Selenium	77-2	0.00	0.00	0.00	0.00	N/A	ppb
Selenium	78-2	0.50	0.82	0.96	0.76	30.72	ppb
Silicon	28-1	-2.99	-3.06	-3.79	-3.28		ppb
Silver	107-1	0.10	0.06	0.04	0.06	48.36	ppb
Silver	109-1	0.11	0.06	0.04	0.07	52.62	ppb
Sodium	23-2	15.99	15.17	13.89	15.02	7.07	ppb
Strontium	86-1	1.48	0.63	0.42	0.85	66.49	ppb
Strontium	88-1	1.63	0.85	0.36	0.95	67.33	ppb
Sulfur	34-1	-169.42	-153.31	-188.02	-170.25		ppb
Terbium	159-1				106		%
Terbium	159-2				106		%
Thallium	203-1	0.13	0.09	0.07	0.10	30.08	ppb
Thallium	205-1	0.13	0.10	0.07	0.10	33.77	ppb
Tin	118-1	0.03	0.02	0.03	0.03	14.00	ppb
Titanium	47-1	0.55	0.28	0.15	0.33	62.70	ppb

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On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	CCB007	Instrumnet Name :	P7
Client Sample ID :	CCB007	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 14:00:57	DataFile Name :	083CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	0.05	0.03	0.01	0.03	65.13	ppb
Vanadium	51-2	0.00	0.00	0.01	0.00	66.59	ppb
Yttrium	89-1				103		%
Yttrium	89-2				103		%
Zinc	66-2	-0.02	0.07	-0.19	-0.05		ppb
Zirconium	90-1	0.13	0.11	0.12	0.12	8.56	ppb
Zirconium	91-1	0.15	0.11	0.11	0.12	17.96	ppb

Reviewed By:Mohan
On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4831-03	Instrumnet Name :	P7
Client Sample ID :	E29S4S	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 14:04:14	DataFile Name :	084SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	1611.64	1679.10	1609.75	1633.50	2.42	ppb
Antimony	121-1	102.80	101.88	101.87	102.18	0.52	ppb
Arsenic	75-2	43.08	42.31	42.78	42.72	0.91	ppb
Barium	135-1	2052.99	2065.87	2029.13	2049.33	0.91	ppb
Barium	137-1	2055.76	2048.28	2047.72	2050.59	0.22	ppb
Beryllium	9-1	46.75	48.69	47.09	47.51	2.17	ppb
Bismuth	209-1				107		%
Bismuth	209-2				105		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	44.95	43.63	44.23	44.27	1.49	ppb
Cadmium	106-1	43.58	42.86	42.12	42.85	1.70	ppb
Cadmium	111-1	49.61	49.80	49.01	49.47	0.84	ppb
Calcium	43-1	97911.74	99170.65	97756.44	98279.61	0.79	ppb
Calcium	44-1	98206.59	99529.40	97386.43	98374.14	1.10	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	208.08	207.91	202.46	206.15	1.55	ppb
Cobalt	59-2	514.33	511.64	492.97	506.31	2.30	ppb
Copper	63-2	240.60	244.21	231.18	238.66	2.82	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				109		%
Holmium	165-2				108		%
Indium	115-1				104		%
Indium	115-2				102		%
Iron	56-2	1024.52	1060.56	1031.08	1038.72	1.85	ppb
Iron	57-2	1459.48	1501.88	1456.02	1472.46	1.73	ppb
Iron	54-2	1142.47	1175.01	1132.52	1150.00	1.93	ppb
Krypton	83-1						cps

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On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4831-03	Instrumnet Name :	P7
Client Sample ID :	E29S4S	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 14:04:14	DataFile Name :	084SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	19.97	20.25	19.95	20.05	0.84	ppb
Lead	207-1	19.36	19.57	19.40	19.44	0.56	ppb
Lead	208-1	19.61	19.83	19.52	19.65	0.80	ppb
Lithium	6-1				99		%
Magnesium	24-2	30519.84	31026.55	29949.22	30498.54	1.77	ppb
Manganese	55-2	495.16	511.52	488.00	498.23	2.42	ppb
Molybdenum	94-1	4.32	4.34	4.35	4.33	0.35	ppb
Molybdenum	95-1	5.17	5.16	5.09	5.14	0.85	ppb
Molybdenum	96-1	5.10	5.12	5.06	5.09	0.59	ppb
Molybdenum	97-1	5.19	5.21	5.21	5.20	0.27	ppb
Molybdenum	98-1	5.25	5.24	5.21	5.23	0.40	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	510.78	513.18	497.10	507.02	1.71	ppb
Phosphorus	31-2	789.61	791.01	774.01	784.88	1.20	ppb
Potassium	39-2	5207.03	5345.63	5197.05	5249.90	1.58	ppb
Rhodium	103-1				100		%
Rhodium	103-2				101		%
Scandium	45-1				101		%
Scandium	45-2				100		%
Selenium	82-1	101.35	102.70	100.63	101.56	1.04	ppb
Selenium	77-2	103.64	99.06	100.55	101.08	2.31	ppb
Selenium	78-2	102.13	100.96	102.68	101.92	0.86	ppb
Silicon	28-1	1382.97	1418.74	1339.26	1380.32	2.88	ppb
Silver	107-1	50.11	50.23	50.14	50.16	0.12	ppb
Silver	109-1	49.33	48.64	48.75	48.91	0.77	ppb
Sodium	23-2	80676.94	82733.91	80730.21	81380.36	1.44	ppb
Strontium	86-1	5204.98	5182.24	5223.64	5203.62	0.40	ppb
Strontium	88-1	5232.70	5210.39	5260.97	5234.68	0.48	ppb
Sulfur	34-1	13203.46	13374.84	12856.26	13144.85	2.01	ppb
Terbium	159-1				108		%
Terbium	159-2				106		%
Thallium	203-1	48.40	49.59	48.66	48.88	1.28	ppb
Thallium	205-1	50.39	51.58	49.90	50.62	1.71	ppb
Tin	118-1	0.01	0.01	0.00	0.00	37.27	ppb
Titanium	47-1	0.60	0.60	0.55	0.58	4.51	ppb

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Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4831-03	Instrumnet Name :	P7
Client Sample ID :	E29S4S	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 14:04:14	DataFile Name :	084SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	0.74	0.74	0.72	0.73	1.75	ppb
Vanadium	51-2	514.01	514.57	498.09	508.89	1.84	ppb
Yttrium	89-1				104		%
Yttrium	89-2				103		%
Zinc	66-2	478.66	499.55	477.00	485.07	2.59	ppb
Zirconium	90-1	0.04	0.04	0.05	0.04	12.58	ppb
Zirconium	91-1	0.05	0.05	0.08	0.06	24.89	ppb

Reviewed By:Mohan
On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	CCV008	Instrumnet Name :	P7
Client Sample ID :	CCV008	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 14:45:32	DataFile Name :	085CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	49934.67	48331.42	47781.90	48682.66	2.30	ppb
Antimony	121-1	488.40	499.28	505.31	497.66	1.72	ppb
Arsenic	75-2	511.59	508.74	512.35	510.90	0.37	ppb
Barium	135-1	2455.06	2475.01	2530.15	2486.74	1.56	ppb
Barium	137-1	2425.96	2488.87	2548.10	2487.64	2.46	ppb
Beryllium	9-1	512.60	531.65	512.18	518.81	2.14	ppb
Bismuth	209-1				96		%
Bismuth	209-2				92		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	492.26	509.60	520.19	507.35	2.78	ppb
Cadmium	106-1	495.24	504.29	513.86	504.46	1.85	ppb
Cadmium	111-1	504.73	511.27	516.03	510.68	1.11	ppb
Calcium	43-1	232194.11	242976.86	245014.35	240061.77	2.87	ppb
Calcium	44-1	235296.61	245879.25	244086.90	241754.26	2.34	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	499.68	496.02	495.31	497.01	0.47	ppb
Cobalt	59-2	529.83	517.27	507.82	518.31	2.13	ppb
Copper	63-2	5159.71	5034.84	5029.93	5074.82	1.45	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				101		%
Holmium	165-2				100		%
Indium	115-1				92		%
Indium	115-2				94		%
Iron	56-2	124935.43	124398.40	123635.13	124322.98	0.53	ppb
Iron	57-2	126924.55	125854.01	123848.44	125542.33	1.24	ppb
Iron	54-2	124313.31	124909.18	121407.09	123543.20	1.52	ppb
Krypton	83-1						cps

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Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	CCV008	Instrumnet Name :	P7
Client Sample ID :	CCV008	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 14:45:32	DataFile Name :	085CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	2519.67	2536.20	2563.54	2539.81	0.87	ppb
Lead	207-1	2481.84	2514.88	2523.43	2506.72	0.88	ppb
Lead	208-1	2486.89	2524.67	2544.03	2518.53	1.15	ppb
Lithium	6-1				92		%
Magnesium	24-2	247525.32	248535.91	241008.88	245690.04	1.66	ppb
Manganese	55-2	5017.73	5016.80	4890.11	4974.88	1.48	ppb
Molybdenum	94-1	4852.12	4942.43	5042.43	4945.66	1.92	ppb
Molybdenum	95-1	4876.19	4937.49	5035.02	4949.57	1.62	ppb
Molybdenum	96-1	4874.71	4945.71	4995.68	4938.70	1.23	ppb
Molybdenum	97-1	4857.67	4952.23	4985.75	4931.88	1.35	ppb
Molybdenum	98-1	4893.27	4974.70	5024.14	4964.04	1.33	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	519.41	505.93	505.88	510.41	1.53	ppb
Phosphorus	31-2	10170.79	10080.25	9931.93	10060.99	1.20	ppb
Potassium	39-2	122267.30	121211.02	119531.44	121003.26	1.14	ppb
Rhodium	103-1				89		%
Rhodium	103-2				90		%
Scandium	45-1				95		%
Scandium	45-2				95		%
Selenium	82-1	482.33	490.44	494.86	489.21	1.30	ppb
Selenium	77-2	507.22	505.66	496.98	503.29	1.10	ppb
Selenium	78-2	505.62	500.02	503.99	503.21	0.57	ppb
Silicon	28-1	613.03	632.62	640.65	628.77	2.26	ppb
Silver	107-1	482.79	495.94	506.49	495.07	2.40	ppb
Silver	109-1	486.77	496.91	508.42	497.37	2.18	ppb
Sodium	23-2	258092.23	252289.84	246640.14	252340.73	2.27	ppb
Strontium	86-1	12321.22	12533.30	12459.44	12437.98	0.87	ppb
Strontium	88-1	12222.41	12560.22	12551.08	12444.57	1.55	ppb
Sulfur	34-1	10418.95	10695.99	10694.61	10603.19	1.50	ppb
Terbium	159-1				99		%
Terbium	159-2				98		%
Thallium	203-1	502.80	499.76	504.35	502.30	0.46	ppb
Thallium	205-1	505.28	503.27	520.22	509.59	1.82	ppb
Tin	118-1	478.42	489.62	497.73	488.59	1.99	ppb
Titanium	47-1	4847.11	4993.97	4994.33	4945.14	1.72	ppb

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Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	CCV008	Instrumnet Name :	P7
Client Sample ID :	CCV008	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 14:45:32	DataFile Name :	085CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	497.34	504.21	512.84	504.80	1.54	ppb
Vanadium	51-2	515.36	509.61	499.58	508.18	1.57	ppb
Yttrium	89-1				97		%
Yttrium	89-2				98		%
Zinc	66-2	5116.44	5049.80	5018.56	5061.60	0.99	ppb
Zirconium	90-1	490.89	496.43	504.37	497.23	1.36	ppb
Zirconium	91-1	496.52	499.34	508.11	501.32	1.21	ppb

Reviewed By:Mohan
On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	CCB008	Instrumnet Name :	P7
Client Sample ID :	CCB008	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 14:48:11	DataFile Name :	086CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	1.69	1.44	1.38	1.50	10.94	ppb
Antimony	121-1	0.27	0.25	0.29	0.27	8.20	ppb
Arsenic	75-2	0.03	0.02	0.03	0.02	22.86	ppb
Barium	135-1	0.54	0.31	0.15	0.33	59.37	ppb
Barium	137-1	0.63	0.30	0.14	0.36	70.15	ppb
Beryllium	9-1	0.17	0.09	0.08	0.11	42.23	ppb
Bismuth	209-1				101		%
Bismuth	209-2				103		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	0.13	0.14	0.07	0.11	34.95	ppb
Cadmium	106-1	-0.45	-1.57	-1.57	-1.20		ppb
Cadmium	111-1	0.11	-0.05	-0.07	-0.01		ppb
Calcium	43-1	60.75	39.41	10.79	36.98	67.78	ppb
Calcium	44-1	56.35	29.56	11.02	32.31	70.55	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.02	-0.01	0.02	0.01	206.60	ppb
Cobalt	59-2	0.00	0.00	0.00	0.00	169.09	ppb
Copper	63-2	0.16	0.14	0.11	0.14	16.54	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				99		%
Holmium	165-2				102		%
Indium	115-1				96		%
Indium	115-2				101		%
Iron	56-2	2.89	2.14	1.90	2.31	22.21	ppb
Iron	57-2	2.21	1.10	1.99	1.76	33.45	ppb
Iron	54-2	3.25	1.33	2.23	2.27	42.27	ppb
Krypton	83-1						cps

Reviewed By:Mohan
On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	CCB008	Instrumnet Name :	P7
Client Sample ID :	CCB008	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 14:48:11	DataFile Name :	086CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	0.57	0.30	0.14	0.34	64.65	ppb
Lead	207-1	0.58	0.31	0.14	0.34	65.42	ppb
Lead	208-1	0.57	0.31	0.14	0.34	63.53	ppb
Lithium	6-1				94		%
Magnesium	24-2	4.32	2.84	2.41	3.19	31.50	ppb
Manganese	55-2	0.12	0.10	0.07	0.10	24.71	ppb
Molybdenum	94-1	1.70	0.83	0.60	1.05	55.64	ppb
Molybdenum	95-1	1.66	0.73	0.44	0.94	67.77	ppb
Molybdenum	96-1	1.66	0.73	0.44	0.95	67.25	ppb
Molybdenum	97-1	1.69	0.76	0.45	0.97	66.61	ppb
Molybdenum	98-1	1.53	0.72	0.42	0.89	64.45	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	-0.05	-0.03	-0.03	-0.04		ppb
Phosphorus	31-2	-16.63	-22.04	-21.91	-20.19		ppb
Potassium	39-2	3.20	1.04	0.89	1.71	75.42	ppb
Rhodium	103-1				96		%
Rhodium	103-2				101		%
Scandium	45-1				94		%
Scandium	45-2				96		%
Selenium	82-1	0.34	0.39	-0.01	0.24	89.72	ppb
Selenium	77-2	0.00	0.10	0.00	0.03	173.21	ppb
Selenium	78-2	0.04	1.44	-0.14	0.45	192.64	ppb
Silicon	28-1	-0.60	-1.16	-1.53	-1.10		ppb
Silver	107-1	0.16	0.07	0.04	0.09	73.06	ppb
Silver	109-1	0.15	0.07	0.03	0.08	71.25	ppb
Sodium	23-2	3.07	1.37	0.02	1.49	102.77	ppb
Strontium	86-1	2.96	1.13	0.53	1.54	81.92	ppb
Strontium	88-1	2.92	1.50	0.67	1.70	67.27	ppb
Sulfur	34-1	21.22	-0.63	-81.40	-20.27		ppb
Terbium	159-1				97		%
Terbium	159-2				101		%
Thallium	203-1	0.12	0.07	0.05	0.08	48.76	ppb
Thallium	205-1	0.13	0.07	0.04	0.08	51.15	ppb
Tin	118-1	0.11	0.08	0.06	0.08	31.57	ppb
Titanium	47-1	1.15	0.72	0.35	0.74	54.21	ppb

Reviewed By:Mohan
On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	CCB008	Instrumnet Name :	P7
Client Sample ID :	CCB008	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 14:48:11	DataFile Name :	086CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	0.11	0.06	0.03	0.07	58.48	ppb
Vanadium	51-2	0.01	0.01	0.01	0.01	36.89	ppb
Yttrium	89-1				96		%
Yttrium	89-2				99		%
Zinc	66-2	0.46	-0.02	0.18	0.20	118.43	ppb
Zirconium	90-1	0.20	0.15	0.14	0.16	21.06	ppb
Zirconium	91-1	0.21	0.16	0.14	0.17	21.12	ppb

Reviewed By:Mohan
On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	S00	Instrumnet Name :	P7
Client Sample ID :	S0	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 09:21:55	DataFile Name :	004CALB.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	764	767	640	724	10.01	cps
Antimony	121-1	97	97	150	114	26.90	cps
Arsenic	75-2	20	13	3	12	68.66	cps
Barium	135-1	303	337	310	317	5.57	cps
Barium	137-1	553	507	630	563	11.05	cps
Beryllium	9-1	44	39	44	43	7.54	cps
Bismuth	209-1	17966208	18475228	18313498	18251645	1.43	cps
Bismuth	209-2	15126994	14955024	15111989	15064669	0.63	cps
Bromine	81-1	16029	15712	15939	15893	1.03	cps
Bromine	81-2	127	93	117	112	15.25	cps
Cadmium	108-1	40	20	13	24	56.78	cps
Cadmium	106-1	10187	10544	10764	10498	2.77	cps
Cadmium	111-1	7160	7393	7556	7369	2.70	cps
Calcium	43-1	7302	7495	7205	7334	2.01	cps
Calcium	44-1	136283	139561	139854	138566	1.43	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	6782	6825	6788	6798	0.34	cps
Cobalt	59-2	363	377	423	388	8.12	cps
Copper	63-2	2464	2550	2190	2401	7.83	cps
Dysprosium	156-1	97	63	80	80	20.84	cps
Dysprosium	156-2	17	23	20	20	16.65	cps
Erbium	164-1	123	113	137	124	9.41	cps
Erbium	164-2	93	127	73	98	27.56	cps
Gadolinium	160-1	157	167	133	152	11.24	cps
Gadolinium	160-2	1300	1097	1163	1187	8.74	cps
Holmium	165-1	30982237	31425680	31554965	31320961	0.96	cps
Holmium	165-2	21762606	21695810	21803326	21753914	0.25	cps
Indium	115-1	27732363	28104491	28296398	28044417	1.02	cps
Indium	115-2	9524314	9467534	9259413	9417087	1.48	cps
Iron	56-2	40485	38790	40424	39900	2.41	cps
Iron	57-2	1887	2037	1910	1945	4.15	cps
Iron	54-2	5161	5004	5274	5146	2.64	cps
Krypton	83-1	277	333	327	312	9.92	cps

Reviewed By:Mohan
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Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	S00	Instrumnet Name :	P7
Client Sample ID :	S0	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 09:21:55	DataFile Name :	004CALB.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	2384	2494	2637	2505	5.07	cps
Lead	207-1	1950	2167	2230	2116	6.94	cps
Lead	208-1	9508	9938	10152	9866	3.32	cps
Lithium	6-1	3410537	3332335	3325820	3356231	1.40	cps
Magnesium	24-2	3437	3374	3380	3397	1.02	cps
Manganese	55-2	14007	13977	14307	14097	1.30	cps
Molybdenum	94-1	840	803	937	860	8.01	cps
Molybdenum	95-1	150	137	103	130	18.49	cps
Molybdenum	96-1	350	263	353	322	15.84	cps
Molybdenum	97-1	83	93	90	89	5.73	cps
Molybdenum	98-1	233	247	217	232	6.47	cps
Neodymium	150-1	33	23	30	29	17.63	cps
Neodymium	150-2	23	13	3	13	75.02	cps
Nickel	60-2	870	787	773	810	6.47	cps
Phosphorus	31-2	480	620	443	514	18.12	cps
Potassium	39-2	76943	77878	79422	78081	1.60	cps
Rhodium	103-1	26408594	26648609	27437221	26831475	2.01	cps
Rhodium	103-2	15504446	15401649	15357296	15421131	0.49	cps
Scandium	45-1	15846821	16004815	16345411	16065682	1.59	cps
Scandium	45-2	1322749	1304288	1324272	1317103	0.84	cps
Selenium	82-1	590	525	389	501	20.41	cps
Selenium	77-2	0	0	0	0	0.00	cps
Selenium	78-2	430	440	397	422	5.37	cps
Silicon	28-1	1432462	1424285	1435690	1430812	0.41	cps
Silver	107-1	180	163	193	179	8.40	cps
Silver	109-1	70	73	110	84	26.28	cps
Sodium	23-2	76884	77356	77983	77408	0.71	cps
Strontium	86-1	940	997	940	959	3.41	cps
Strontium	88-1	3974	4057	4151	4061	2.18	cps
Sulfur	34-1	321175	324501	321802	322493	0.55	cps
Terbium	159-1	32328396	32456080	32970723	32585066	1.04	cps
Terbium	159-2	21782446	21693312	21967306	21814355	0.64	cps
Thallium	203-1	233	250	300	261	13.29	cps
Thallium	205-1	547	623	557	576	7.24	cps
Tin	118-1	7752	8356	8196	8101	3.86	cps
Titanium	47-1	247	210	220	226	8.40	cps

Reviewed By:Mohan
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Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	S00	Instrumnet Name :	P7
Client Sample ID :	S0	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 09:21:55	DataFile Name :	004CALB.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	40	53	43	46	15.23	cps
Vanadium	51-2	53	40	50	48	14.52	cps
Yttrium	89-1	37321129	37799629	37955344	37692034	0.88	cps
Yttrium	89-2	9095929	9192681	9110813	9133141	0.57	cps
Zinc	66-2	14040	14197	14053	14097	0.62	cps
Zirconium	90-1	2227	2334	2367	2309	3.17	cps
Zirconium	91-1	497	493	463	484	3.79	cps

Reviewed By:Mohan
On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	S02	Instrumnet Name :	P7
Client Sample ID :	S02	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 09:28:28	DataFile Name :	006CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	10479	10692	10945	10705	2.18	cps
Antimony	121-1	47211	48776	48572	48186	1.77	cps
Arsenic	75-2	1313	1227	1420	1320	7.34	cps
Barium	135-1	55404	58094	58212	57237	2.77	cps
Barium	137-1	96099	101559	101257	99638	3.08	cps
Beryllium	9-1	2350	2600	2656	2535	6.42	cps
Bismuth	209-1	18033036	18156992	18218471	18136166	0.52	cps
Bismuth	209-2	14994297	15105391	14829486	14976391	0.93	cps
Bromine	81-1	15592	15278	14874	15248	2.36	cps
Bromine	81-2	83	63	107	84	25.69	cps
Cadmium	108-1	500	523	537	520	3.57	cps
Cadmium	106-1	11178	11091	10868	11045	1.45	cps
Cadmium	111-1	13906	14026	14163	14032	0.92	cps
Calcium	43-1	40601	41149	42583	41444	2.47	cps
Calcium	44-1	662102	692096	696106	683435	2.72	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	27101	27458	27091	27217	0.77	cps
Cobalt	59-2	17320	17717	17387	17475	1.22	cps
Copper	63-2	26116	25669	25869	25885	0.87	cps
Dysprosium	156-1	83	103	63	83	24.00	cps
Dysprosium	156-2	33	33	7	24	62.97	cps
Erbium	164-1	117	123	123	121	3.18	cps
Erbium	164-2	103	80	70	84	20.25	cps
Gadolinium	160-1	163	163	150	159	4.85	cps
Gadolinium	160-2	1330	1210	1210	1250	5.54	cps
Holmium	165-1	30890372	31048614	30956444	30965143	0.26	cps
Holmium	165-2	21689156	21366992	21278978	21445042	1.01	cps
Indium	115-1	27401833	27495118	27664556	27520502	0.48	cps
Indium	115-2	9533146	9388995	9262950	9395030	1.44	cps
Iron	56-2	519378	522158	517581	519706	0.44	cps
Iron	57-2	14063	14480	14550	14365	1.83	cps
Iron	54-2	31794	32211	31717	31907	0.83	cps
Krypton	83-1	290	300	360	317	11.96	cps

Reviewed By:Mohan
On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	S02	Instrumnet Name :	P7
Client Sample ID :	S02	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 09:28:28	DataFile Name :	006CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	18042	18383	18733	18386	1.88	cps
Lead	207-1	15896	16367	16564	16275	2.11	cps
Lead	208-1	71948	74113	74944	73668	2.10	cps
Lithium	6-1	3308602	3424660	3326156	3353139	1.87	cps
Magnesium	24-2	449462	449578	448599	449213	0.12	cps
Manganese	55-2	21582	21769	21188	21513	1.38	cps
Molybdenum	94-1	49868	51139	52149	51052	2.24	cps
Molybdenum	95-1	60140	61890	62965	61665	2.31	cps
Molybdenum	96-1	67170	69270	70475	68972	2.43	cps
Molybdenum	97-1	37849	39213	38978	38680	1.89	cps
Molybdenum	98-1	96077	98432	100841	98450	2.42	cps
Neodymium	150-1	27	7	13	16	65.47	cps
Neodymium	150-2	20	3	17	13	66.16	cps
Nickel	60-2	5011	5111	4988	5036	1.30	cps
Phosphorus	31-2	1073	1233	1220	1176	7.55	cps
Potassium	39-2	617334	616539	610884	614919	0.57	cps
Rhodium	103-1	26252969	26579113	26398120	26410067	0.62	cps
Rhodium	103-2	15477953	15350331	15210304	15346196	0.87	cps
Scandium	45-1	15706499	15776022	15917746	15800089	0.68	cps
Scandium	45-2	1311261	1282622	1298732	1297538	1.11	cps
Selenium	82-1	2276	2434	2308	2339	3.57	cps
Selenium	77-2	207	187	180	191	7.26	cps
Selenium	78-2	997	1043	1120	1053	5.91	cps
Silicon	28-1	1470193	1500448	1496827	1489156	1.11	cps
Silver	107-1	31548	32176	32984	32236	2.23	cps
Silver	109-1	29794	31103	31123	30674	2.48	cps
Sodium	23-2	757662	759419	759255	758779	0.13	cps
Strontium	86-1	8356	8869	8849	8692	3.35	cps
Strontium	88-1	70294	73650	72350	72098	2.35	cps
Sulfur	34-1	320234	320800	318406	319813	0.39	cps
Terbium	159-1	32212565	32308795	31822190	32114516	0.80	cps
Terbium	159-2	21412221	21563413	21384919	21453517	0.45	cps
Thallium	203-1	19828	20566	20549	20314	2.07	cps
Thallium	205-1	47054	48961	49774	48597	2.87	cps
Tin	118-1	105529	108578	110479	108196	2.31	cps
Titanium	47-1	15138	16072	15712	15640	3.01	cps

Reviewed By:Mohan
On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	S02	Instrumnet Name :	P7
Client Sample ID :	S02	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 09:28:28	DataFile Name :	006CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	56954	59352	60185	58830	2.85	cps
Vanadium	51-2	42797	43593	43349	43246	0.94	cps
Yttrium	89-1	37182188	37273660	37651980	37369276	0.67	cps
Yttrium	89-2	9149367	9078519	9011517	9079801	0.76	cps
Zinc	66-2	22744	22681	22921	22782	0.55	cps
Zirconium	90-1	41896	44494	44440	43610	3.40	cps
Zirconium	91-1	9300	9573	9853	9575	2.89	cps

Reviewed By:Mohan
On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	S03	Instrumnet Name :	P7
Client Sample ID :	S03	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 09:31:44	DataFile Name :	007CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	514592	510879	511340	512270	0.40	cps
Antimony	121-1	1214933	1220585	1224549	1220022	0.40	cps
Arsenic	75-2	62186	62069	62641	62299	0.49	cps
Barium	135-1	1459203	1472288	1476635	1469375	0.62	cps
Barium	137-1	2630740	2648520	2625728	2634996	0.45	cps
Beryllium	9-1	130628	129799	128628	129685	0.77	cps
Bismuth	209-1	18799396	19052553	18887202	18913050	0.68	cps
Bismuth	209-2	15508707	15381712	15310722	15400380	0.65	cps
Bromine	81-1	14994	15041	14164	14733	3.35	cps
Bromine	81-2	83	87	100	90	9.80	cps
Cadmium	108-1	24604	24377	24758	24580	0.78	cps
Cadmium	106-1	45949	44963	44535	45149	1.61	cps
Cadmium	111-1	339007	340149	342110	340422	0.46	cps
Calcium	43-1	350658	350644	351270	350857	0.10	cps
Calcium	44-1	5560447	5487963	5421490	5489966	1.27	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	498656	498606	495733	497665	0.34	cps
Cobalt	59-2	804167	800000	802096	802087	0.26	cps
Copper	63-2	6250459	6130460	6194615	6191845	0.97	cps
Dysprosium	156-1	80	47	90	72	31.41	cps
Dysprosium	156-2	70	123	100	98	27.35	cps
Erbium	164-1	177	153	140	157	11.85	cps
Erbium	164-2	153	80	80	104	40.54	cps
Gadolinium	160-1	167	130	143	147	12.65	cps
Gadolinium	160-2	1297	1163	1433	1298	10.40	cps
Holmium	165-1	32312910	32226913	32524890	32354904	0.47	cps
Holmium	165-2	22223855	22465326	22114796	22267992	0.81	cps
Indium	115-1	28351149	28667322	28058365	28358945	1.07	cps
Indium	115-2	9598839	9502054	9370948	9490614	1.21	cps
Iron	56-2	23268319	23361119	23243231	23290890	0.27	cps
Iron	57-2	591893	589562	586568	589341	0.45	cps
Iron	54-2	1307192	1298087	1302815	1302698	0.35	cps
Krypton	83-1	340	277	357	324	13.01	cps

Reviewed By:Mohan
On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	S03	Instrumnet Name :	P7
Client Sample ID :	S03	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 09:31:44	DataFile Name :	007CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	4257241	4198647	4259935	4238608	0.82	cps
Lead	207-1	3734647	3728812	3854026	3772495	1.87	cps
Lead	208-1	16969917	17000345	17244084	17071449	0.88	cps
Lithium	6-1	3465113	3470243	3360733	3432030	1.80	cps
Magnesium	24-2	4670444	4639069	4677341	4662285	0.44	cps
Manganese	55-2	3840757	3822478	3771606	3811614	0.94	cps
Molybdenum	94-1	4506371	4477085	4504183	4495880	0.36	cps
Molybdenum	95-1	6615938	6539938	6519991	6558622	0.77	cps
Molybdenum	96-1	7138301	7223479	7159801	7173860	0.62	cps
Molybdenum	97-1	4067632	4067386	4052648	4062555	0.21	cps
Molybdenum	98-1	10328867	10441177	10473273	10414439	0.73	cps
Neodymium	150-1	110	80	97	96	15.73	cps
Neodymium	150-2	47	30	33	37	24.06	cps
Nickel	60-2	209404	209227	208263	208965	0.29	cps
Phosphorus	31-2	26296	25648	25588	25844	1.52	cps
Potassium	39-2	2693853	2707768	2718039	2706553	0.45	cps
Rhodium	103-1	26923135	27245981	27280632	27149916	0.73	cps
Rhodium	103-2	15564520	15199374	15321609	15361834	1.21	cps
Scandium	45-1	16198306	16099759	16097895	16131987	0.36	cps
Scandium	45-2	1292362	1291035	1295535	1292977	0.18	cps
Selenium	82-1	20133	20370	20324	20276	0.62	cps
Selenium	77-2	1963	1870	1853	1896	3.13	cps
Selenium	78-2	7008	6695	6648	6784	2.89	cps
Silicon	28-1	3937020	3979282	4000253	3972185	0.81	cps
Silver	107-1	1695669	1707514	1686047	1696410	0.63	cps
Silver	109-1	1619426	1631876	1637233	1629511	0.56	cps
Sodium	23-2	7304852	7381446	7398100	7361466	0.68	cps
Strontium	86-1	398075	397744	396123	397314	0.26	cps
Strontium	88-1	3535700	3567069	3526474	3543081	0.60	cps
Sulfur	34-1	404412	399758	398240	400803	0.80	cps
Terbium	159-1	33153231	33784855	33403472	33447186	0.95	cps
Terbium	159-2	22276846	22373715	22113973	22254844	0.59	cps
Thallium	203-1	1039864	1048716	1057626	1048736	0.85	cps
Thallium	205-1	2484630	2525206	2525825	2511887	0.94	cps
Tin	118-1	1035663	1038263	1044729	1039552	0.45	cps
Titanium	47-1	1609862	1629722	1610846	1616810	0.69	cps

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Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	S03	Instrumnet Name :	P7
Client Sample ID :	S03	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 09:31:44	DataFile Name :	007CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	3118430	3190942	3263125	3190832	2.27	cps
Vanadium	51-2	421135	415324	420738	419066	0.77	cps
Yttrium	89-1	38359194	38507888	38705545	38524209	0.45	cps
Yttrium	89-2	9229997	9145096	9171293	9182128	0.47	cps
Zinc	66-2	964338	963198	956741	961426	0.43	cps
Zirconium	90-1	2204089	2187102	2217010	2202734	0.68	cps
Zirconium	91-1	470610	475510	473178	473099	0.52	cps

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	S04	Instrumnet Name :	P7
Client Sample ID :	S04	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 09:34:40	DataFile Name :	008CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	1264432	1286005	1270583	1273674	0.87	cps
Antimony	121-1	2994310	3006514	3059013	3019946	1.14	cps
Arsenic	75-2	150188	150669	149622	150160	0.35	cps
Barium	135-1	3679657	3710519	3683102	3691093	0.46	cps
Barium	137-1	6303119	6297204	6317877	6306067	0.17	cps
Beryllium	9-1	311807	313411	312057	312425	0.28	cps
Bismuth	209-1	18508590	19176322	18927743	18870885	1.79	cps
Bismuth	209-2	15243895	15130803	15081749	15152149	0.55	cps
Bromine	81-1	15211	14607	14691	14836	2.21	cps
Bromine	81-2	110	83	97	97	13.79	cps
Cadmium	108-1	59689	58347	60141	59392	1.57	cps
Cadmium	106-1	92754	94273	93112	93380	0.85	cps
Cadmium	111-1	798790	811450	808102	806114	0.81	cps
Calcium	43-1	827461	829195	830632	829096	0.19	cps
Calcium	44-1	13066045	13104651	13076851	13082516	0.15	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	1191728	1186156	1195439	1191108	0.39	cps
Cobalt	59-2	1962389	1982581	1959940	1968303	0.63	cps
Copper	63-2	14961379	14663341	14580786	14735169	1.36	cps
Dysprosium	156-1	137	120	157	138	13.33	cps
Dysprosium	156-2	180	140	180	167	13.86	cps
Erbium	164-1	177	173	167	172	2.96	cps
Erbium	164-2	97	80	113	97	17.24	cps
Gadolinium	160-1	213	170	160	181	15.66	cps
Gadolinium	160-2	1133	1323	1253	1237	7.77	cps
Holmium	165-1	31708019	32110936	32098222	31972392	0.72	cps
Holmium	165-2	22313890	22193030	22010120	22172346	0.69	cps
Indium	115-1	27768155	28049452	27885084	27900897	0.51	cps
Indium	115-2	9433379	9260501	9309279	9334387	0.95	cps
Iron	56-2	56519447	55625831	56312551	56152610	0.83	cps
Iron	57-2	1429276	1418025	1406758	1418020	0.79	cps
Iron	54-2	3100683	3039010	3146596	3095430	1.74	cps
Krypton	83-1	360	290	380	343	13.76	cps

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On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	S04	Instrumnet Name :	P7
Client Sample ID :	S04	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 09:34:40	DataFile Name :	008CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	10208224	10378783	10400988	10329332	1.02	cps
Lead	207-1	9104909	9200467	9280600	9195325	0.96	cps
Lead	208-1	41429174	42069245	42248455	41915625	1.03	cps
Lithium	6-1	3401295	3356815	3315680	3357930	1.28	cps
Magnesium	24-2	11119218	11188577	11284665	11197487	0.74	cps
Manganese	55-2	9237231	9111372	9253311	9200638	0.84	cps
Molybdenum	94-1	10760862	10942744	10793347	10832318	0.90	cps
Molybdenum	95-1	15760673	15930179	15780472	15823774	0.59	cps
Molybdenum	96-1	17360023	17333977	17240149	17311383	0.36	cps
Molybdenum	97-1	9674447	9752207	9762448	9729701	0.49	cps
Molybdenum	98-1	25290545	25131743	25085630	25169306	0.43	cps
Neodymium	150-1	193	170	153	172	11.67	cps
Neodymium	150-2	17	67	63	49	57.18	cps
Nickel	60-2	497340	499751	494697	497263	0.51	cps
Phosphorus	31-2	60489	61804	60536	60943	1.22	cps
Potassium	39-2	6459705	6382718	6401667	6414697	0.63	cps
Rhodium	103-1	26426226	26183350	26382294	26330623	0.49	cps
Rhodium	103-2	15322452	15280396	14980588	15194479	1.23	cps
Scandium	45-1	15578705	15544679	15738030	15620471	0.66	cps
Scandium	45-2	1258631	1270848	1259925	1263135	0.53	cps
Selenium	82-1	47206	47266	47031	47168	0.26	cps
Selenium	77-2	4214	4501	4244	4320	3.65	cps
Selenium	78-2	15034	15311	15358	15235	1.15	cps
Silicon	28-1	8173756	8141439	8116388	8143861	0.35	cps
Silver	107-1	4037433	4125228	4090129	4084264	1.08	cps
Silver	109-1	3911699	3980962	3883609	3925423	1.28	cps
Sodium	23-2	17609970	17527528	17587333	17574943	0.24	cps
Strontium	86-1	941955	955386	947601	948314	0.71	cps
Strontium	88-1	8409492	8530708	8519318	8486506	0.79	cps
Sulfur	34-1	520418	521006	516688	519371	0.45	cps
Terbium	159-1	32679715	33207930	33339222	33075622	1.06	cps
Terbium	159-2	21528056	21765059	22065885	21786333	1.24	cps
Thallium	203-1	2561368	2637337	2638138	2612281	1.69	cps
Thallium	205-1	6114124	6283524	6187529	6195059	1.37	cps
Tin	118-1	2554191	2584210	2518474	2552291	1.29	cps
Titanium	47-1	3819409	3842602	3831948	3831320	0.30	cps

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LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	S04	Instrumnet Name :	P7
Client Sample ID :	S04	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 09:34:40	DataFile Name :	008CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	7803312	7917415	7912707	7877811	0.82	cps
Vanadium	51-2	1009402	1010766	1013206	1011125	0.19	cps
Yttrium	89-1	37415859	37415909	37401244	37411004	0.02	cps
Yttrium	89-2	9061189	9126137	9091071	9092799	0.36	cps
Zinc	66-2	2339021	2337307	2315968	2330765	0.55	cps
Zirconium	90-1	5223445	5242183	5299991	5255206	0.76	cps
Zirconium	91-1	1129300	1141047	1137415	1135921	0.53	cps

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	S05	Instrumnet Name :	P7
Client Sample ID :	S05	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 09:37:26	DataFile Name :	009CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	2513559	2497956	2470519	2494011	0.87	cps
Antimony	121-1	6071411	6120904	6086202	6092839	0.42	cps
Arsenic	75-2	300800	300881	297232	299638	0.70	cps
Barium	135-1	7441010	7464704	7352570	7419428	0.80	cps
Barium	137-1	12641779	13003941	12714171	12786631	1.50	cps
Beryllium	9-1	624261	628961	623065	625429	0.50	cps
Bismuth	209-1	19407626	19318863	18860458	19195649	1.53	cps
Bismuth	209-2	15374012	15361732	15310035	15348593	0.22	cps
Bromine	81-1	14804	14691	14961	14819	0.92	cps
Bromine	81-2	100	77	100	92	14.61	cps
Cadmium	108-1	119440	120223	119427	119696	0.38	cps
Cadmium	106-1	175583	177871	176305	176586	0.66	cps
Cadmium	111-1	1643066	1625140	1612207	1626804	0.95	cps
Calcium	43-1	1615926	1633074	1650456	1633152	1.06	cps
Calcium	44-1	26214300	26211964	25942505	26122923	0.60	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	2416039	2446628	2395544	2419404	1.06	cps
Cobalt	59-2	3935156	3892272	3862931	3896786	0.93	cps
Copper	63-2	29317604	28903017	29309538	29176720	0.81	cps
Dysprosium	156-1	197	210	150	186	16.98	cps
Dysprosium	156-2	357	283	340	327	11.77	cps
Erbium	164-1	150	203	253	202	25.55	cps
Erbium	164-2	120	130	153	134	12.73	cps
Gadolinium	160-1	223	217	210	217	3.08	cps
Gadolinium	160-2	1183	1323	1390	1299	8.12	cps
Holmium	165-1	33277398	32917397	33017213	33070669	0.56	cps
Holmium	165-2	22547450	22617830	22519750	22561676	0.22	cps
Indium	115-1	27669781	28252041	27916748	27946190	1.05	cps
Indium	115-2	9476946	9370561	9281892	9376467	1.04	cps
Iron	56-2	112907642	111552845	111810198	112090228	0.64	cps
Iron	57-2	2827298	2807226	2757651	2797392	1.28	cps
Iron	54-2	6247005	6177756	6095408	6173390	1.23	cps
Krypton	83-1	340	393	260	331	20.27	cps

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	S05	Instrumnet Name :	P7
Client Sample ID :	S05	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 09:37:26	DataFile Name :	009CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	21109379	21328671	21043766	21160605	0.71	cps
Lead	207-1	18682468	18915288	18751288	18783015	0.64	cps
Lead	208-1	85223853	86083090	85488072	85598338	0.51	cps
Lithium	6-1	3454085	3460633	3429638	3448119	0.47	cps
Magnesium	24-2	22115256	22028185	22136127	22093189	0.26	cps
Manganese	55-2	18500076	18402617	18206214	18369636	0.81	cps
Molybdenum	94-1	21994304	21939831	22034951	21989696	0.22	cps
Molybdenum	95-1	31980595	32051252	32137575	32056474	0.25	cps
Molybdenum	96-1	34876173	35260921	35116824	35084639	0.55	cps
Molybdenum	97-1	19572114	20068347	19778478	19806313	1.26	cps
Molybdenum	98-1	50705821	51164758	50893191	50921256	0.45	cps
Neodymium	150-1	277	333	347	319	11.66	cps
Neodymium	150-2	100	90	63	84	22.45	cps
Nickel	60-2	984113	979173	982849	982045	0.26	cps
Phosphorus	31-2	120066	120144	119247	119819	0.41	cps
Potassium	39-2	12571794	12646122	12663668	12627195	0.39	cps
Rhodium	103-1	26527163	26448402	26546041	26507202	0.20	cps
Rhodium	103-2	15187969	15186425	15246675	15207023	0.23	cps
Scandium	45-1	15849469	15837529	15564046	15750348	1.03	cps
Scandium	45-2	1243545	1243726	1265319	1250863	1.00	cps
Selenium	82-1	95287	96336	95873	95832	0.55	cps
Selenium	77-2	8766	8883	9150	8933	2.20	cps
Selenium	78-2	30101	30161	30555	30272	0.82	cps
Silicon	28-1	13054428	13236249	13279819	13190165	0.91	cps
Silver	107-1	8141897	8150207	8135503	8142536	0.09	cps
Silver	109-1	7837774	7884732	7808539	7843682	0.49	cps
Sodium	23-2	35082894	34784824	34784043	34883920	0.49	cps
Strontium	86-1	1966030	1970629	1932346	1956335	1.07	cps
Strontium	88-1	17142506	17093372	17094815	17110231	0.16	cps
Sulfur	34-1	728013	723165	718218	723132	0.68	cps
Terbium	159-1	34259779	33973415	33732748	33988647	0.78	cps
Terbium	159-2	22177983	22351089	22390502	22306525	0.51	cps
Thallium	203-1	5413751	5357008	5325440	5365400	0.83	cps
Thallium	205-1	12655374	12816161	12693701	12721745	0.66	cps
Tin	118-1	5075221	5145303	5080115	5100213	0.77	cps
Titanium	47-1	7728941	7793462	7676973	7733126	0.75	cps

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On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	S05	Instrumnet Name :	P7
Client Sample ID :	S05	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 09:37:26	DataFile Name :	009CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	16196319	16299812	16754064	16416731	1.81	cps
Vanadium	51-2	2097111	2084350	2061185	2080882	0.88	cps
Yttrium	89-1	38166097	37996586	37770070	37977584	0.52	cps
Yttrium	89-2	9160909	9235490	9193219	9196540	0.41	cps
Zinc	66-2	4666224	4591128	4655007	4637453	0.87	cps
Zirconium	90-1	10598230	10585582	10769932	10651248	0.97	cps
Zirconium	91-1	2370601	2363016	2374249	2369289	0.24	cps

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On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	S06	Instrumnet Name :	P7
Client Sample ID :	S06	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 09:40:14	DataFile Name :	010CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	4960038	4908928	4886424	4918464	0.77	cps
Antimony	121-1	11916051	12018862	12062799	11999237	0.63	cps
Arsenic	75-2	593679	593276	590668	592541	0.28	cps
Barium	135-1	14446821	14802111	14570785	14606572	1.23	cps
Barium	137-1	25019675	25395140	25251222	25222013	0.75	cps
Beryllium	9-1	1273822	1304337	1311435	1296531	1.54	cps
Bismuth	209-1	19123959	19106123	18854776	19028286	0.79	cps
Bismuth	209-2	15233322	15272179	15259587	15255029	0.13	cps
Bromine	81-1	14474	14851	15245	14856	2.59	cps
Bromine	81-2	113	93	93	100	11.55	cps
Cadmium	108-1	231278	232380	230771	231476	0.36	cps
Cadmium	106-1	331018	332357	331640	331672	0.20	cps
Cadmium	111-1	3209229	3181996	3185386	3192203	0.46	cps
Calcium	43-1	3151227	3179392	3197533	3176050	0.73	cps
Calcium	44-1	50519734	50672219	50958549	50716834	0.44	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	4768960	4683048	4790514	4747507	1.20	cps
Cobalt	59-2	7713586	7597949	7566502	7626012	1.02	cps
Copper	63-2	56629219	56538139	56525697	56564352	0.10	cps
Dysprosium	156-1	363	340	320	341	6.36	cps
Dysprosium	156-2	693	653	633	660	4.63	cps
Erbium	164-1	277	330	270	292	11.25	cps
Erbium	164-2	183	167	230	193	16.98	cps
Gadolinium	160-1	270	277	290	279	3.65	cps
Gadolinium	160-2	1147	1233	1363	1248	8.74	cps
Holmium	165-1	33078099	32711915	32936402	32908805	0.56	cps
Holmium	165-2	22850494	22539862	22677249	22689202	0.69	cps
Indium	115-1	27503291	27487393	27595205	27528630	0.21	cps
Indium	115-2	9327609	9302570	9194025	9274734	0.77	cps
Iron	56-2	224438490	220226650	217991183	220885441	1.48	cps
Iron	57-2	5537215	5425706	5435397	5466106	1.13	cps
Iron	54-2	12252094	12041043	12101637	12131591	0.90	cps
Krypton	83-1	330	253	340	308	15.41	cps

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On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	S06	Instrumnet Name :	P7
Client Sample ID :	S06	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 09:40:14	DataFile Name :	010CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	41661274	42544106	42474838	42226739	1.16	cps
Lead	207-1	37283271	37478816	37237934	37333341	0.34	cps
Lead	208-1	169438724	170443067	169778647	169886813	0.30	cps
Lithium	6-1	3347086	3337389	3360278	3348251	0.34	cps
Magnesium	24-2	43254484	43334083	43033939	43207502	0.36	cps
Manganese	55-2	36752628	36345477	35938075	36345393	1.12	cps
Molybdenum	94-1	43100603	43095566	43441261	43212477	0.46	cps
Molybdenum	95-1	62463731	62359196	63024499	62615809	0.57	cps
Molybdenum	96-1	67960516	68890386	68571799	68474233	0.69	cps
Molybdenum	97-1	38546864	38911783	39239388	38899345	0.89	cps
Molybdenum	98-1	99341472	100504952	100984942	100277122	0.84	cps
Neodymium	150-1	577	697	713	662	11.26	cps
Neodymium	150-2	133	163	160	152	10.80	cps
Nickel	60-2	1989782	1967185	2006014	1987660	0.98	cps
Phosphorus	31-2	238080	235414	235576	236357	0.63	cps
Potassium	39-2	24443500	24780975	24603046	24609174	0.69	cps
Rhodium	103-1	25621314	25927737	25947720	25832257	0.71	cps
Rhodium	103-2	15046908	15061979	14935918	15014935	0.46	cps
Scandium	45-1	15487376	15355868	15570283	15471175	0.70	cps
Scandium	45-2	1237993	1256504	1252824	1249107	0.78	cps
Selenium	82-1	183988	185659	187005	185551	0.81	cps
Selenium	77-2	17864	17204	17003	17357	2.60	cps
Selenium	78-2	58907	58311	58371	58530	0.56	cps
Silicon	28-1	29693591	29596627	29593733	29627984	0.19	cps
Silver	107-1	15879696	15920102	15872381	15890727	0.16	cps
Silver	109-1	15114274	15103796	15108804	15108958	0.03	cps
Sodium	23-2	68263337	68003421	68205234	68157331	0.20	cps
Strontium	86-1	3864138	3872156	3859055	3865117	0.17	cps
Strontium	88-1	33523796	33471008	33706729	33567178	0.37	cps
Sulfur	34-1	1273757	1278455	1247753	1266655	1.31	cps
Terbium	159-1	33511520	34132661	33902249	33848810	0.93	cps
Terbium	159-2	22356571	22355521	22549167	22420420	0.50	cps
Thallium	203-1	10596200	10646946	10748999	10664048	0.73	cps
Thallium	205-1	24891186	25483207	25375834	25250076	1.25	cps
Tin	118-1	10101304	10137568	10108170	10115681	0.19	cps
Titanium	47-1	15032489	15172808	15265680	15156992	0.77	cps

Reviewed By:Mohan
On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	S06	Instrumnet Name :	P7
Client Sample ID :	S06	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 09:40:14	DataFile Name :	010CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	32123705	32584247	33188992	32632315	1.64	cps
Vanadium	51-2	4098882	4060201	4067586	4075556	0.50	cps
Yttrium	89-1	37798922	37389581	37642472	37610325	0.55	cps
Yttrium	89-2	9172842	9042540	9002307	9072563	0.98	cps
Zinc	66-2	9139659	9108004	9057183	9101616	0.46	cps
Zirconium	90-1	21090231	21077888	21224214	21130777	0.38	cps
Zirconium	91-1	4609709	4633414	4675809	4639644	0.72	cps

Reviewed By:Mohan
On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	S07	Instrumnet Name :	P7
Client Sample ID :	S07	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 09:42:59	DataFile Name :	011CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	10057497	9963032	9981406	10000645	0.50	cps
Antimony	121-1	24650036	25026069	24748713	24808273	0.79	cps
Arsenic	75-2	1206918	1195683	1185498	1196033	0.90	cps
Barium	135-1	30071312	30456690	30045610	30191204	0.76	cps
Barium	137-1	51480926	52036769	51662371	51726689	0.55	cps
Beryllium	9-1	2562973	2544150	2600570	2569231	1.12	cps
Bismuth	209-1	19376492	19489210	19613520	19493074	0.61	cps
Bismuth	209-2	15445896	15184560	15228099	15286185	0.92	cps
Bromine	81-1	15168	15205	15982	15452	2.98	cps
Bromine	81-2	110	137	103	117	15.12	cps
Cadmium	108-1	466175	469048	471053	468759	0.52	cps
Cadmium	106-1	660815	668899	666813	665509	0.63	cps
Cadmium	111-1	6465527	6441025	6395580	6434044	0.55	cps
Calcium	43-1	6488473	6520609	6450353	6486478	0.54	cps
Calcium	44-1	102787648	104578772	103713042	103693154	0.86	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	9663261	9637273	9730344	9676959	0.50	cps
Cobalt	59-2	15334951	15680099	15213375	15409475	1.57	cps
Copper	63-2	113750988	113403475	113102912	113419125	0.29	cps
Dysprosium	156-1	533	553	477	521	7.63	cps
Dysprosium	156-2	1333	1387	1320	1347	2.62	cps
Erbium	164-1	447	423	427	432	2.92	cps
Erbium	164-2	337	297	303	312	6.86	cps
Gadolinium	160-1	333	333	393	353	9.80	cps
Gadolinium	160-2	1377	1367	1393	1379	0.98	cps
Holmium	165-1	34138609	34343023	34056182	34179271	0.43	cps
Holmium	165-2	23150412	23280325	23159219	23196652	0.31	cps
Indium	115-1	28387881	28039465	27994992	28140779	0.76	cps
Indium	115-2	9372068	9300524	9222865	9298486	0.80	cps
Iron	56-2	442409313	444680033	442038087	443042478	0.32	cps
Iron	57-2	11126412	11158000	10978684	11087698	0.86	cps
Iron	54-2	24539755	24413351	24416362	24456490	0.29	cps
Krypton	83-1	310	340	367	339	8.36	cps

Reviewed By:Mohan
On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	S07	Instrumnet Name :	P7
Client Sample ID :	S07	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 09:42:59	DataFile Name :	011CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	85363542	86812715	85599362	85925206	0.90	cps
Lead	207-1	76031631	76853629	75764459	76216573	0.74	cps
Lead	208-1	344939357	347125988	345922125	345995823	0.32	cps
Lithium	6-1	3414292	3381209	3403372	3399624	0.50	cps
Magnesium	24-2	90079249	89187942	88189755	89152315	1.06	cps
Manganese	55-2	73147321	73349442	73090872	73195878	0.19	cps
Molybdenum	94-1	88113382	89290339	88788949	88730890	0.67	cps
Molybdenum	95-1	128065575	129454848	128956381	128825601	0.55	cps
Molybdenum	96-1	140958105	142663825	141577438	141733122	0.61	cps
Molybdenum	97-1	79589350	80739407	80378639	80235799	0.73	cps
Molybdenum	98-1	204669904	206881837	204469177	205340306	0.65	cps
Neodymium	150-1	1403	1433	1183	1340	10.19	cps
Neodymium	150-2	353	310	277	313	12.27	cps
Nickel	60-2	3974898	4021389	3941012	3979100	1.01	cps
Phosphorus	31-2	479945	480457	483276	481226	0.37	cps
Potassium	39-2	50023524	50098094	50321429	50147683	0.31	cps
Rhodium	103-1	26164366	26372539	26335220	26290708	0.42	cps
Rhodium	103-2	15133931	15008765	14990834	15044510	0.52	cps
Scandium	45-1	15880566	15899205	15667386	15815719	0.81	cps
Scandium	45-2	1322970	1315855	1302892	1313906	0.77	cps
Selenium	82-1	378826	384775	379893	381164	0.83	cps
Selenium	77-2	36388	36054	35088	35843	1.88	cps
Selenium	78-2	118348	117246	119427	118340	0.92	cps
Silicon	28-1	50692544	50916316	50231134	50613331	0.69	cps
Silver	107-1	32060109	32251855	31584800	31965588	1.07	cps
Silver	109-1	30351628	30658228	30484072	30497976	0.50	cps
Sodium	23-2	138874295	137176405	138232791	138094497	0.62	cps
Strontium	86-1	7896496	7988406	7834026	7906309	0.98	cps
Strontium	88-1	69248027	69037112	68769482	69018207	0.35	cps
Sulfur	34-1	2185855	2185183	2178830	2183290	0.18	cps
Terbium	159-1	35426433	35260784	34636056	35107758	1.19	cps
Terbium	159-2	23002463	22876976	23096723	22992054	0.48	cps
Thallium	203-1	21961060	21883515	22144449	21996341	0.61	cps
Thallium	205-1	51431703	52207263	51888813	51842593	0.75	cps
Tin	118-1	20772905	20923623	20563791	20753439	0.87	cps
Titanium	47-1	30419915	30821538	30835195	30692216	0.77	cps

Reviewed By:Mohan
On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	S07	Instrumnet Name :	P7
Client Sample ID :	S07	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 09:42:59	DataFile Name :	011CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	66908232	67709302	67410589	67342708	0.60	cps
Vanadium	51-2	8364841	8464958	8440372	8423391	0.62	cps
Yttrium	89-1	38945495	38913901	38299704	38719700	0.94	cps
Yttrium	89-2	9281723	9341372	9273474	9298856	0.40	cps
Zinc	66-2	18035899	18157600	18212378	18135292	0.50	cps
Zirconium	90-1	42932806	43293684	42980058	43068849	0.46	cps
Zirconium	91-1	9377573	9535101	9501223	9471299	0.88	cps

Reviewed By:Mohan
On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	S08	Instrumnet Name :	P7
Client Sample ID :	S08	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 09:45:46	DataFile Name :	012CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	51420120	51615641	51439575	51491779	0.21	cps
Antimony	121-1	10968	11625	13360	11984	10.31	cps
Arsenic	75-2	633	703	697	678	5.70	cps
Barium	135-1	12119	11798	11328	11748	3.39	cps
Barium	137-1	21727	20945	20308	20993	3.38	cps
Beryllium	9-1	461	322	261	348	29.44	cps
Bismuth	209-1	17063779	16946670	16859655	16956702	0.60	cps
Bismuth	209-2	13094494	13035804	13311626	13147308	1.11	cps
Bromine	81-1	16943	17434	16780	17052	2.00	cps
Bromine	81-2	160	167	127	151	14.18	cps
Cadmium	108-1	270	203	297	257	18.73	cps
Cadmium	106-1	10644	10684	10467	10598	1.09	cps
Cadmium	111-1	8672	8650	8413	8578	1.67	cps
Calcium	43-1	31424076	31281988	31778296	31494787	0.81	cps
Calcium	44-1	505768166	506316912	509267419	507117499	0.37	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	17487	17994	17433	17638	1.75	cps
Cobalt	59-2	37801	38763	39508	38691	2.21	cps
Copper	63-2	21275	21289	20267	20944	2.80	cps
Dysprosium	156-1	900	947	923	923	2.53	cps
Dysprosium	156-2	740	710	743	731	2.51	cps
Erbium	164-1	1207	1040	1090	1112	7.69	cps
Erbium	164-2	693	747	767	736	5.15	cps
Gadolinium	160-1	1047	960	853	953	10.16	cps
Gadolinium	160-2	1800	1677	1717	1731	3.63	cps
Holmium	165-1	33077449	32291405	32349530	32572794	1.34	cps
Holmium	165-2	21273927	21526816	22059112	21619952	1.85	cps
Indium	115-1	26052670	26393005	26295310	26246995	0.67	cps
Indium	115-2	8794753	8762270	8948942	8835322	1.13	cps
Iron	56-2	2119120395	2102676129	2159283114	2127026546	1.37	cps
Iron	57-2	53108016	54021914	52734083	53288004	1.24	cps
Iron	54-2	115893885	116748138	119448308	117363444	1.58	cps
Krypton	83-1	363	457	450	423	12.30	cps

Reviewed By:Mohan
On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	S08	Instrumnet Name :	P7
Client Sample ID :	S08	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 09:45:46	DataFile Name :	012CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	13533	12166	11115	12271	9.88	cps
Lead	207-1	11905	10758	9887	10850	9.33	cps
Lead	208-1	54159	48584	44796	49180	9.58	cps
Lithium	6-1	3087797	3096941	3111108	3098615	0.38	cps
Magnesium	24-2	438976393	448057887	448110860	445048380	1.18	cps
Manganese	55-2	38235	38563	38837	38545	0.78	cps
Molybdenum	94-1	22511	21332	20625	21489	4.43	cps
Molybdenum	95-1	22380	20054	19286	20573	7.83	cps
Molybdenum	96-1	42174	39086	38450	39903	4.99	cps
Molybdenum	97-1	13396	12142	11405	12314	8.18	cps
Molybdenum	98-1	34157	30528	29096	31260	8.34	cps
Neodymium	150-1	547	557	493	532	6.40	cps
Neodymium	150-2	287	310	260	286	8.76	cps
Nickel	60-2	10967	10621	10987	10858	1.90	cps
Phosphorus	31-2	477	530	463	490	7.20	cps
Potassium	39-2	252400383	257718369	255494030	255204261	1.05	cps
Rhodium	103-1	23628904	23907168	23621955	23719342	0.69	cps
Rhodium	103-2	13458208	13574830	13634430	13555822	0.66	cps
Scandium	45-1	15302853	15575818	15453336	15444002	0.89	cps
Scandium	45-2	1244394	1284205	1296821	1275140	2.15	cps
Selenium	82-1	853	696	743	764	10.51	cps
Selenium	77-2	7	10	10	9	21.63	cps
Selenium	78-2	457	493	500	483	4.83	cps
Silicon	28-1	1371470	1337763	1329225	1346153	1.66	cps
Silver	107-1	4701	4101	3864	4222	10.22	cps
Silver	109-1	4691	3964	3357	4004	16.68	cps
Sodium	23-2	674148670	667463123	678883897	673498563	0.85	cps
Strontium	86-1	25689	25719	25749	25719	0.12	cps
Strontium	88-1	222031	223510	221773	222438	0.42	cps
Sulfur	34-1	249474	254790	258489	254251	1.78	cps
Terbium	159-1	33280805	33492686	33103230	33292240	0.59	cps
Terbium	159-2	21393031	21122642	21414304	21309992	0.76	cps
Thallium	203-1	2374	1660	1363	1799	28.86	cps
Thallium	205-1	5274	4237	3307	4273	23.03	cps
Tin	118-1	10447	10020	10057	10175	2.33	cps
Titanium	47-1	4627	4274	4181	4361	5.40	cps

Reviewed By:Mohan
On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	S08	Instrumnet Name :	P7
Client Sample ID :	S08	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 09:45:46	DataFile Name :	012CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	6038	4477	3811	4775	23.94	cps
Vanadium	51-2	2330	2137	2077	2181	6.07	cps
Yttrium	89-1	37278599	37441814	37348173	37356195	0.22	cps
Yttrium	89-2	9142520	9072699	9126691	9113970	0.40	cps
Zinc	66-2	10384	10390	10694	10489	1.69	cps
Zirconium	90-1	25943	25295	24581	25273	2.70	cps
Zirconium	91-1	5955	5494	5064	5504	8.09	cps

Reviewed By:Mohan
On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	ICV002	Instrumnet Name :	P7
Client Sample ID :	ICV002	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 10:03:13	DataFile Name :	013ICV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	300945	301755	301946	301549	0.18	cps
Antimony	121-1	4979671	4971839	5048291	4999934	0.84	cps
Arsenic	75-2	260786	262331	260190	261103	0.42	cps
Barium	135-1	587502	592741	592572	590939	0.50	cps
Barium	137-1	1009489	1024163	1028462	1020705	0.97	cps
Beryllium	9-1	253200	256604	256071	255292	0.72	cps
Bismuth	209-1	19760973	19855834	19385253	19667353	1.27	cps
Bismuth	209-2	15978537	15916664	16067051	15987417	0.47	cps
Bromine	81-1	15912	16436	16312	16220	1.69	cps
Bromine	81-2	83	110	97	97	13.79	cps
Cadmium	108-1	43923	44481	43361	43922	1.28	cps
Cadmium	106-1	70661	71009	70580	70750	0.32	cps
Cadmium	111-1	678955	686061	677197	680738	0.69	cps
Calcium	43-1	139545	141291	141694	140843	0.81	cps
Calcium	44-1	2284392	2271856	2275814	2277354	0.28	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	1047219	1041174	1029283	1039225	0.88	cps
Cobalt	59-2	1710194	1709037	1738504	1719245	0.97	cps
Copper	63-2	1193644	1184741	1177812	1185399	0.67	cps
Dysprosium	156-1	60	67	70	66	7.77	cps
Dysprosium	156-2	37	60	27	41	41.60	cps
Erbium	164-1	157	140	150	149	5.64	cps
Erbium	164-2	103	93	87	94	8.88	cps
Gadolinium	160-1	133	130	163	142	12.91	cps
Gadolinium	160-2	1293	1283	1343	1307	2.46	cps
Holmium	165-1	32937204	33241563	33262396	33147054	0.55	cps
Holmium	165-2	23215665	23037197	23083653	23112172	0.40	cps
Indium	115-1	29668233	29442927	29930155	29680438	0.82	cps
Indium	115-2	10162087	9947073	10072963	10060707	1.07	cps
Iron	56-2	18891626	19018269	18767666	18892520	0.66	cps
Iron	57-2	479753	474828	471969	475517	0.83	cps
Iron	54-2	1075981	1070414	1072915	1073103	0.26	cps
Krypton	83-1	317	367	307	330	9.74	cps

Reviewed By:Mohan
On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	ICV002	Instrumnet Name :	P7
Client Sample ID :	ICV002	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 10:03:13	DataFile Name :	013ICV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	3637485	3639762	3713479	3663575	1.18	cps
Lead	207-1	3098249	3133970	3155063	3129094	0.92	cps
Lead	208-1	14477218	14476321	14515274	14489604	0.15	cps
Lithium	6-1	3408394	3305778	3424227	3379466	1.90	cps
Magnesium	24-2	1145080	1058105	1060064	1087750	4.57	cps
Manganese	55-2	777299	776385	772059	775248	0.36	cps
Molybdenum	94-1	1167	1403	1500	1357	12.64	cps
Molybdenum	95-1	540	443	533	506	10.68	cps
Molybdenum	96-1	887	1113	1067	1022	11.71	cps
Molybdenum	97-1	360	320	337	339	5.93	cps
Molybdenum	98-1	973	850	1033	952	9.82	cps
Neodymium	150-1	53	43	43	47	12.37	cps
Neodymium	150-2	10	10	23	14	53.28	cps
Nickel	60-2	440840	439383	437501	439241	0.38	cps
Phosphorus	31-2	413	463	397	424	8.17	cps
Potassium	39-2	2210728	2198337	2173165	2194077	0.87	cps
Rhodium	103-1	28389827	28138408	27965501	28164579	0.76	cps
Rhodium	103-2	16533951	16161928	16565866	16420582	1.37	cps
Scandium	45-1	16942519	16993601	17118073	17018064	0.53	cps
Scandium	45-2	1389228	1376112	1369454	1378265	0.73	cps
Selenium	82-1	83423	82987	83921	83444	0.56	cps
Selenium	77-2	8176	7909	7912	7999	1.91	cps
Selenium	78-2	27135	26831	26434	26800	1.31	cps
Silicon	28-1	1342034	1361934	1325349	1343106	1.36	cps
Silver	107-1	1678778	1631872	1668001	1659550	1.48	cps
Silver	109-1	1572301	1626962	1576681	1591981	1.91	cps
Sodium	23-2	2955919	2927323	2955333	2946192	0.55	cps
Strontium	86-1	3014	2620	2787	2807	7.04	cps
Strontium	88-1	20628	20474	20394	20499	0.58	cps
Sulfur	34-1	306915	306567	305247	306243	0.29	cps
Terbium	159-1	34067806	34415989	34259255	34247683	0.51	cps
Terbium	159-2	22875268	22834915	23075975	22928720	0.56	cps
Thallium	203-1	4621769	4591013	4570336	4594373	0.56	cps
Thallium	205-1	10807876	10717414	10891005	10805432	0.80	cps
Tin	118-1	7269	7452	7322	7347	1.28	cps
Titanium	47-1	360	373	363	366	1.90	cps

Reviewed By:Mohan
On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	ICV002	Instrumnet Name :	P7
Client Sample ID :	ICV002	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 10:03:13	DataFile Name :	013ICV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	103	143	107	118	18.85	cps
Vanadium	51-2	859356	856632	859466	858485	0.19	cps
Yttrium	89-1	40016504	39953868	39769052	39913141	0.32	cps
Yttrium	89-2	9851364	9778967	9805213	9811848	0.37	cps
Zinc	66-2	401795	397258	397435	398829	0.64	cps
Zirconium	90-1	2727	2970	3460	3053	12.24	cps
Zirconium	91-1	1060	1133	1117	1103	3.48	cps

Reviewed By:Mohan
On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	ICB002	Instrumnet Name :	P7
Client Sample ID :	ICB002	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 10:07:56	DataFile Name :	014CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	577	570	581	576	0.96	cps
Antimony	121-1	833	877	1203	971	20.83	cps
Arsenic	75-2	27	33	20	27	24.99	cps
Barium	135-1	447	463	397	436	7.97	cps
Barium	137-1	643	680	727	683	6.11	cps
Beryllium	9-1	161	89	78	109	41.41	cps
Bismuth	209-1	18226026	18642203	18688510	18518913	1.38	cps
Bismuth	209-2	15574598	15449226	15661259	15561694	0.69	cps
Bromine	81-1	16499	16092	16099	16230	1.44	cps
Bromine	81-2	113	117	77	102	21.71	cps
Cadmium	108-1	37	53	30	40	30.04	cps
Cadmium	106-1	9436	9590	9330	9452	1.38	cps
Cadmium	111-1	6677	6772	6606	6685	1.24	cps
Calcium	43-1	7278	7338	7008	7208	2.44	cps
Calcium	44-1	132724	136474	136007	135068	1.51	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	6915	6775	6952	6881	1.36	cps
Cobalt	59-2	330	403	303	346	14.98	cps
Copper	63-2	2844	2687	2587	2706	4.78	cps
Dysprosium	156-1	20	67	47	44	52.68	cps
Dysprosium	156-2	23	10	20	18	39.03	cps
Erbium	164-1	130	143	180	151	17.13	cps
Erbium	164-2	83	77	73	78	6.55	cps
Gadolinium	160-1	150	177	150	159	9.69	cps
Gadolinium	160-2	1293	1327	1290	1303	1.56	cps
Holmium	165-1	31477129	31534721	31847754	31619868	0.63	cps
Holmium	165-2	22919673	22307255	22376455	22534461	1.49	cps
Indium	115-1	27831569	28384014	28219739	28145107	1.01	cps
Indium	115-2	9787390	9798137	9770253	9785260	0.14	cps
Iron	56-2	41073	39880	40277	40410	1.50	cps
Iron	57-2	1953	1970	1837	1920	3.78	cps
Iron	54-2	5001	5081	4941	5008	1.40	cps
Krypton	83-1	307	320	347	324	6.28	cps

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	ICB002	Instrumnet Name :	P7
Client Sample ID :	ICB002	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 10:07:56	DataFile Name :	014CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	3117	2914	2897	2976	4.12	cps
Lead	207-1	2517	2560	2564	2547	1.02	cps
Lead	208-1	11956	11372	11672	11667	2.50	cps
Lithium	6-1	3245671	3321091	3338894	3301885	1.50	cps
Magnesium	24-2	3600	3487	3470	3519	2.01	cps
Manganese	55-2	13790	13963	14037	13930	0.91	cps
Molybdenum	94-1	1177	1443	1447	1356	11.43	cps
Molybdenum	95-1	207	220	210	212	3.27	cps
Molybdenum	96-1	467	433	547	482	12.08	cps
Molybdenum	97-1	120	187	160	156	21.57	cps
Molybdenum	98-1	327	370	393	363	9.31	cps
Neodymium	150-1	20	27	30	26	19.92	cps
Neodymium	150-2	13	13	30	19	50.96	cps
Nickel	60-2	670	667	760	699	7.58	cps
Phosphorus	31-2	533	450	453	479	9.85	cps
Potassium	39-2	81178	80562	81684	81141	0.69	cps
Rhodium	103-1	26620835	27061513	27044828	26909058	0.93	cps
Rhodium	103-2	15905332	15995495	15958247	15953025	0.28	cps
Scandium	45-1	15995019	16174790	16074744	16081518	0.56	cps
Scandium	45-2	1339430	1327682	1338404	1335172	0.49	cps
Selenium	82-1	706	538	503	582	18.63	cps
Selenium	77-2	0	3	0	1	173.21	cps
Selenium	78-2	497	530	477	501	5.38	cps
Silicon	28-1	1356176	1384487	1364808	1368490	1.06	cps
Silver	107-1	453	357	367	392	13.55	cps
Silver	109-1	350	327	260	312	14.96	cps
Sodium	23-2	73149	72506	72345	72667	0.59	cps
Strontium	86-1	960	953	1020	978	3.76	cps
Strontium	88-1	4161	4284	4071	4172	2.57	cps
Sulfur	34-1	305612	309347	307091	307350	0.61	cps
Terbium	159-1	32494741	32665935	32734170	32631615	0.38	cps
Terbium	159-2	22458437	22244849	22278141	22327142	0.51	cps
Thallium	203-1	647	597	523	589	10.53	cps
Thallium	205-1	1597	1393	1370	1453	8.58	cps
Tin	118-1	7776	7902	8089	7922	1.99	cps
Titanium	47-1	277	263	237	259	7.87	cps

Reviewed By:Mohan
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Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	ICB002	Instrumnet Name :	P7
Client Sample ID :	ICB002	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 10:07:56	DataFile Name :	014CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	53	57	77	62	20.29	cps
Vanadium	51-2	33	50	30	38	28.37	cps
Yttrium	89-1	37404759	38323524	38121591	37949958	1.27	cps
Yttrium	89-2	9519227	9369085	9453595	9447302	0.80	cps
Zinc	66-2	13880	14043	13823	13915	0.82	cps
Zirconium	90-1	3344	3747	4061	3717	9.67	cps
Zirconium	91-1	753	733	780	756	3.10	cps

Reviewed By:Mohan
On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	ICSA002	Instrumnet Name :	P7
Client Sample ID :	ICSA002	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 10:11:14	DataFile Name :	015ICSA.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	45886052	46020890	46203542	46036828	0.35	cps
Antimony	121-1	25219	26254	26762	26078	3.02	cps
Arsenic	75-2	380	400	447	409	8.37	cps
Barium	135-1	8152	8286	8616	8351	2.86	cps
Barium	137-1	13897	14411	14477	14262	2.23	cps
Beryllium	9-1	667	678	683	676	1.26	cps
Bismuth	209-1	18502846	18308461	18315184	18375497	0.60	cps
Bismuth	209-2	14435640	14699911	14855897	14663816	1.45	cps
Bromine	81-1	17193	17667	17981	17614	2.25	cps
Bromine	81-2	357	330	330	339	4.54	cps
Cadmium	108-1	4177	4117	4027	4107	1.84	cps
Cadmium	106-1	10154	9763	9530	9816	3.21	cps
Cadmium	111-1	9438	9140	8979	9186	2.53	cps
Calcium	43-1	6094512	6243060	6256190	6197921	1.45	cps
Calcium	44-1	97115215	100663932	101492828	99757325	2.33	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	192030	190849	192971	191950	0.55	cps
Cobalt	59-2	18852	18478	18678	18669	1.00	cps
Copper	63-2	82985	82552	82472	82670	0.33	cps
Dysprosium	156-1	120	117	123	120	2.77	cps
Dysprosium	156-2	67	97	43	69	38.81	cps
Erbium	164-1	200	237	207	214	9.11	cps
Erbium	164-2	133	153	157	148	8.54	cps
Gadolinium	160-1	263	203	243	237	12.91	cps
Gadolinium	160-2	1260	1293	1273	1276	1.32	cps
Holmium	165-1	32925786	33173679	33019116	33039527	0.38	cps
Holmium	165-2	22383469	22579056	22599758	22520761	0.53	cps
Indium	115-1	27788564	27372624	27674307	27611832	0.78	cps
Indium	115-2	9303355	9257924	9274947	9278742	0.25	cps
Iron	56-2	864211560	872170200	871875640	869419134	0.52	cps
Iron	57-2	21862788	21988618	21524765	21792057	1.10	cps
Iron	54-2	47173839	47353353	47214879	47247357	0.20	cps
Krypton	83-1	327	377	320	341	9.08	cps

Reviewed By:Mohan
On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	ICSA002	Instrumnet Name :	P7
Client Sample ID :	ICSA002	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 10:11:14	DataFile Name :	015ICSA.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	77248	78472	78327	78015	0.86	cps
Lead	207-1	61545	62744	62868	62386	1.17	cps
Lead	208-1	290455	295361	295345	293721	0.96	cps
Lithium	6-1	3189450	3061953	3076541	3109315	2.24	cps
Magnesium	24-2	81198139	82213970	81440424	81617511	0.65	cps
Manganese	55-2	67209	67343	67470	67341	0.19	cps
Molybdenum	94-1	13202672	13518182	13651092	13457315	1.71	cps
Molybdenum	95-1	23269539	23798575	24173856	23747323	1.91	cps
Molybdenum	96-1	24841465	25665414	25697549	25401476	1.91	cps
Molybdenum	97-1	14380506	14789592	14949051	14706383	1.99	cps
Molybdenum	98-1	36997552	38471765	38759342	38076220	2.48	cps
Neodymium	150-1	127	120	123	123	2.70	cps
Neodymium	150-2	57	43	53	51	13.58	cps
Nickel	60-2	21856	21158	21692	21569	1.69	cps
Phosphorus	31-2	2391213	2364264	2388349	2381275	0.62	cps
Potassium	39-2	96094759	95560455	98598272	96751162	1.68	cps
Rhodium	103-1	25479129	25621700	25340646	25480492	0.55	cps
Rhodium	103-2	14892021	14656549	14950866	14833145	1.05	cps
Scandium	45-1	15757314	15816340	15863021	15812225	0.34	cps
Scandium	45-2	1261542	1270456	1282936	1271645	0.85	cps
Selenium	82-1	601	523	499	541	9.83	cps
Selenium	77-2	10	3	3	6	69.34	cps
Selenium	78-2	513	537	500	517	3.59	cps
Silicon	28-1	1419491	1398178	1407637	1408435	0.76	cps
Silver	107-1	1147	983	1190	1107	9.85	cps
Silver	109-1	847	1057	990	964	11.13	cps
Sodium	23-2	134465858	132924285	134152525	133847556	0.61	cps
Strontium	86-1	246119	254301	257490	252637	2.32	cps
Strontium	88-1	2212170	2278011	2360897	2283693	3.26	cps
Sulfur	34-1	8801321	9028963	8915807	8915363	1.28	cps
Terbium	159-1	33959724	34430259	33782752	34057578	0.98	cps
Terbium	159-2	22070448	22206036	22302888	22193124	0.53	cps
Thallium	203-1	2117	2267	2347	2244	5.21	cps
Thallium	205-1	4761	5368	5665	5264	8.75	cps
Tin	118-1	10307	10804	10904	10672	3.00	cps
Titanium	47-1	5780997	6045372	6054822	5960397	2.61	cps

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On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	ICSA002	Instrumnet Name :	P7
Client Sample ID :	ICSA002	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 10:11:14	DataFile Name :	015ICSA.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	957	1060	1023	1013	5.17	cps
Vanadium	51-2	1497	1510	1670	1559	6.19	cps
Yttrium	89-1	38321925	37700935	38074329	38032397	0.82	cps
Yttrium	89-2	9150443	9096712	9209130	9152095	0.61	cps
Zinc	66-2	30855	30454	30815	30708	0.72	cps
Zirconium	90-1	2877	3270	3684	3277	12.31	cps
Zirconium	91-1	617	590	810	672	17.86	cps

Reviewed By:Mohan
On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	ICSAB002	Instrumnet Name :	P7
Client Sample ID :	ICSAB002	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 10:14:16	DataFile Name :	016ICSB.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	46811604	46222819	47686207	46906877	1.57	cps
Antimony	121-1	488691	500800	499465	496319	1.34	cps
Arsenic	75-2	23742	23525	24033	23767	1.07	cps
Barium	135-1	121570	123352	123257	122727	0.82	cps
Barium	137-1	208872	214636	215038	212848	1.62	cps
Beryllium	9-1	43143	45545	42993	43894	3.26	cps
Bismuth	209-1	18841082	18715128	19006351	18854187	0.77	cps
Bismuth	209-2	15212573	14701909	14971237	14961906	1.71	cps
Bromine	81-1	19600	19860	20147	19869	1.38	cps
Bromine	81-2	697	693	773	721	6.28	cps
Cadmium	108-1	11595	12058	12252	11968	2.82	cps
Cadmium	106-1	20545	21513	21443	21167	2.55	cps
Cadmium	111-1	128724	132194	130822	130580	1.34	cps
Calcium	43-1	6246504	6283192	6329025	6286240	0.66	cps
Calcium	44-1	99909882	101223982	102430808	101188224	1.25	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	379126	379371	381509	380002	0.35	cps
Cobalt	59-2	317906	316873	319478	318085	0.41	cps
Copper	63-2	292054	293707	290755	292172	0.51	cps
Dysprosium	156-1	117	163	127	136	18.13	cps
Dysprosium	156-2	80	77	83	80	4.16	cps
Erbium	164-1	207	240	247	231	9.27	cps
Erbium	164-2	157	143	137	146	7.00	cps
Gadolinium	160-1	190	207	267	221	18.24	cps
Gadolinium	160-2	1160	1193	1180	1178	1.42	cps
Holmium	165-1	33889513	33748488	34358826	33998942	0.94	cps
Holmium	165-2	23577594	22825749	22881871	23095071	1.81	cps
Indium	115-1	28263658	28262952	28314971	28280527	0.11	cps
Indium	115-2	9701384	9362460	9382097	9481980	2.01	cps
Iron	56-2	886696093	872777934	866230040	875234689	1.19	cps
Iron	57-2	21750604	21964115	21854569	21856429	0.49	cps
Iron	54-2	47645791	47634426	48390313	47890177	0.90	cps
Krypton	83-1	293	303	333	310	6.71	cps

Reviewed By:Mohan
On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	ICSAB002	Instrumnet Name :	P7
Client Sample ID :	ICSAB002	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 10:14:16	DataFile Name :	016ICSB.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	417763	427109	424078	422984	1.13	cps
Lead	207-1	353340	358932	357143	356471	0.80	cps
Lead	208-1	1625408	1657178	1648890	1643825	1.00	cps
Lithium	6-1	2929954	2984228	2993643	2969275	1.16	cps
Magnesium	24-2	82317914	81804039	84222642	82781532	1.54	cps
Manganese	55-2	205108	204849	203477	204478	0.43	cps
Molybdenum	94-1	13562306	13802187	14080021	13814838	1.88	cps
Molybdenum	95-1	24188837	24443030	24770010	24467292	1.19	cps
Molybdenum	96-1	26048189	26644554	26549055	26413932	1.21	cps
Molybdenum	97-1	15010891	15227972	15359531	15199464	1.16	cps
Molybdenum	98-1	38757189	39298311	39612314	39222604	1.10	cps
Neodymium	150-1	110	143	143	132	14.56	cps
Neodymium	150-2	77	80	80	79	2.44	cps
Nickel	60-2	98487	96277	97199	97321	1.14	cps
Phosphorus	31-2	2432468	2377905	2457218	2422530	1.68	cps
Potassium	39-2	98130025	97900802	98650075	98226967	0.39	cps
Rhodium	103-1	26057290	26018095	26633379	26236255	1.31	cps
Rhodium	103-2	15412756	14997887	15127141	15179261	1.40	cps
Scandium	45-1	15718312	15714669	16080392	15837791	1.33	cps
Scandium	45-2	1365273	1315783	1319824	1333627	2.06	cps
Selenium	82-1	7890	7775	7881	7849	0.81	cps
Selenium	77-2	607	610	643	620	3.27	cps
Selenium	78-2	2967	2784	2770	2840	3.87	cps
Silicon	28-1	1414015	1444311	1445989	1434772	1.25	cps
Silver	107-1	580771	591779	598705	590419	1.53	cps
Silver	109-1	554683	563399	564999	561027	0.99	cps
Sodium	23-2	135407218	134217961	135530528	135051902	0.54	cps
Strontium	86-1	256935	265813	265531	262760	1.92	cps
Strontium	88-1	2312031	2362775	2339408	2338072	1.09	cps
Sulfur	34-1	8902013	8946725	8963916	8937551	0.36	cps
Terbium	159-1	34821438	34781202	35463724	35022121	1.09	cps
Terbium	159-2	23260779	22511426	22714687	22828964	1.70	cps
Thallium	203-1	432506	440114	447420	440013	1.69	cps
Thallium	205-1	1023089	1042247	1052078	1039138	1.42	cps
Tin	118-1	10327	10144	10190	10220	0.93	cps
Titanium	47-1	5946933	6085836	6116354	6049708	1.49	cps

Reviewed By:Mohan
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Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	ICSAB002	Instrumnet Name :	P7
Client Sample ID :	ICSAB002	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 10:14:16	DataFile Name :	016ICSB.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	977	1097	1070	1048	6.01	cps
Vanadium	51-2	161769	157961	159803	159844	1.19	cps
Yttrium	89-1	38293903	38632333	39503481	38809906	1.61	cps
Yttrium	89-2	9655870	9314946	9501865	9490894	1.80	cps
Zinc	66-2	65406	64040	65560	65002	1.29	cps
Zirconium	90-1	2627	2857	2770	2751	4.22	cps
Zirconium	91-1	573	757	663	664	13.80	cps

Reviewed By:Mohan
On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	CCV004	Instrumnet Name :	P7
Client Sample ID :	CCV004	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 10:17:18	DataFile Name :	017CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	26481005	26688497	26501385	26556962	0.43	cps
Antimony	121-1	12848582	12931593	12906619	12895598	0.33	cps
Arsenic	75-2	641782	636750	635768	638100	0.51	cps
Barium	135-1	15764964	15625155	15614285	15668135	0.54	cps
Barium	137-1	26840987	26854124	26543423	26746178	0.66	cps
Beryllium	9-1	1176738	1225796	1235875	1212803	2.61	cps
Bismuth	209-1	18966454	18815483	18676876	18819604	0.77	cps
Bismuth	209-2	14763096	14712460	14498471	14658009	0.96	cps
Bromine	81-1	17103	17230	16876	17070	1.05	cps
Bromine	81-2	140	143	167	150	9.69	cps
Cadmium	108-1	242159	248188	244501	244949	1.24	cps
Cadmium	106-1	352971	354044	351759	352924	0.32	cps
Cadmium	111-1	3402199	3459645	3388026	3416623	1.11	cps
Calcium	43-1	16467427	16721512	16663306	16617415	0.80	cps
Calcium	44-1	265517576	268417783	267872703	267269354	0.58	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	4958886	5008260	5034657	5000601	0.77	cps
Cobalt	59-2	8177332	8123949	8154721	8152001	0.33	cps
Copper	63-2	59199222	59573907	59478929	59417353	0.33	cps
Dysprosium	156-1	610	657	643	637	3.78	cps
Dysprosium	156-2	1017	977	910	968	5.57	cps
Erbium	164-1	717	623	673	671	6.96	cps
Erbium	164-2	440	443	397	427	6.10	cps
Gadolinium	160-1	577	570	530	559	4.52	cps
Gadolinium	160-2	1493	1550	1440	1495	3.68	cps
Holmium	165-1	35420636	34810488	34775794	35002306	1.04	cps
Holmium	165-2	23337973	23227083	22907511	23157522	0.97	cps
Indium	115-1	28597885	28288472	28412141	28432833	0.55	cps
Indium	115-2	9365621	9371846	9260925	9332797	0.67	cps
Iron	56-2	1123991050	1118009663	1120331743	1120777486	0.27	cps
Iron	57-2	28409349	27993705	28132109	28178388	0.75	cps
Iron	54-2	61023344	61556786	61255584	61278571	0.44	cps
Krypton	83-1	327	313	373	338	9.33	cps

Reviewed By:Mohan
On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	CCV004	Instrumnet Name :	P7
Client Sample ID :	CCV004	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 10:17:18	DataFile Name :	017CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	42950161	43384864	43359986	43231670	0.56	cps
Lead	207-1	37973294	38430644	38302116	38235352	0.62	cps
Lead	208-1	172466931	174790227	174192851	173816670	0.69	cps
Lithium	6-1	3017809	2964391	3026456	3002885	1.12	cps
Magnesium	24-2	227755663	227274523	227165837	227398674	0.14	cps
Manganese	55-2	37795297	37510228	38040345	37781957	0.70	cps
Molybdenum	94-1	45622903	46509734	46160324	46097654	0.97	cps
Molybdenum	95-1	66931084	68038604	67070776	67346821	0.90	cps
Molybdenum	96-1	73323236	74337416	74077086	73912579	0.71	cps
Molybdenum	97-1	41483904	41974723	42017920	41825515	0.71	cps
Molybdenum	98-1	106704735	108747385	107718228	107723450	0.95	cps
Neodymium	150-1	870	950	820	880	7.45	cps
Neodymium	150-2	287	270	290	282	3.80	cps
Nickel	60-2	2072772	2096674	2087308	2085585	0.58	cps
Phosphorus	31-2	246164	245688	246996	246283	0.27	cps
Potassium	39-2	130548975	130868541	130998931	130805482	0.18	cps
Rhodium	103-1	26196562	26072343	26125066	26131324	0.24	cps
Rhodium	103-2	14696376	14805436	14709921	14737244	0.40	cps
Scandium	45-1	16383179	16337114	16105071	16275121	0.92	cps
Scandium	45-2	1308134	1335960	1316350	1320148	1.08	cps
Selenium	82-1	198226	198996	200440	199221	0.56	cps
Selenium	77-2	18946	18535	17878	18453	2.92	cps
Selenium	78-2	62019	62253	61681	61985	0.46	cps
Silicon	28-1	21626023	21739546	21922847	21762805	0.69	cps
Silver	107-1	16738154	16673538	16774894	16728862	0.31	cps
Silver	109-1	15980469	15948739	15960067	15963092	0.10	cps
Sodium	23-2	357373675	358131928	357983488	357829697	0.11	cps
Strontium	86-1	4115058	4150672	4182762	4149498	0.82	cps
Strontium	88-1	36156110	36601908	35945824	36234614	0.92	cps
Sulfur	34-1	1249271	1238474	1243790	1243845	0.43	cps
Terbium	159-1	36422649	35638704	35367588	35809647	1.53	cps
Terbium	159-2	22701223	22649136	22655539	22668633	0.13	cps
Thallium	203-1	10938572	10850219	10873167	10887319	0.42	cps
Thallium	205-1	25874752	26196306	25963098	26011385	0.64	cps
Tin	118-1	10476821	10705619	10707171	10629870	1.25	cps
Titanium	47-1	15781706	16165872	15993717	15980432	1.20	cps

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Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	CCV004	Instrumnet Name :	P7
Client Sample ID :	CCV004	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 10:17:18	DataFile Name :	017CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	33815666	34079274	34080264	33991735	0.45	cps
Vanadium	51-2	4409593	4451322	4439952	4433622	0.49	cps
Yttrium	89-1	40065374	39820472	39425294	39770380	0.81	cps
Yttrium	89-2	9489785	9313984	9339954	9381241	1.01	cps
Zinc	66-2	9579428	9599969	9598576	9592658	0.12	cps
Zirconium	90-1	22368695	22859888	22827296	22685293	1.21	cps
Zirconium	91-1	4936899	4952857	5039785	4976514	1.11	cps

Reviewed By:Mohan
On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	CCB004	Instrumnet Name :	P7
Client Sample ID :	CCB004	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 10:19:57	DataFile Name :	018CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	1044	1077	910	1010	8.73	cps
Antimony	121-1	5721	6011	7465	6399	14.60	cps
Arsenic	75-2	33	10	30	24	51.62	cps
Barium	135-1	2817	1417	837	1690	60.23	cps
Barium	137-1	5044	2594	1343	2994	62.88	cps
Beryllium	9-1	339	261	172	257	32.40	cps
Bismuth	209-1	19423340	19726300	19768611	19639417	0.96	cps
Bismuth	209-2	15919099	15758597	16228719	15968805	1.50	cps
Bromine	81-1	15181	15161	15645	15329	1.79	cps
Bromine	81-2	140	113	100	118	17.29	cps
Cadmium	108-1	80	77	47	68	27.08	cps
Cadmium	106-1	9820	9860	9984	9888	0.86	cps
Cadmium	111-1	7608	7235	7172	7339	3.21	cps
Calcium	43-1	9997	8339	7942	8759	12.44	cps
Calcium	44-1	178913	157166	144958	160346	10.73	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	6588	6425	6685	6566	2.00	cps
Cobalt	59-2	377	383	377	379	1.02	cps
Copper	63-2	4117	3781	3741	3879	5.33	cps
Dysprosium	156-1	47	37	37	40	14.43	cps
Dysprosium	156-2	13	20	30	21	39.75	cps
Erbium	164-1	147	127	167	147	13.64	cps
Erbium	164-2	93	63	117	91	29.35	cps
Gadolinium	160-1	120	107	183	137	29.97	cps
Gadolinium	160-2	1130	1203	1207	1180	3.67	cps
Holmium	165-1	32416785	33586547	33233748	33079026	1.81	cps
Holmium	165-2	23270909	22570955	23231640	23024501	1.71	cps
Indium	115-1	28129910	28555831	28978771	28554837	1.49	cps
Indium	115-2	9856108	9785976	9805387	9815824	0.37	cps
Iron	56-2	59808	55438	53665	56304	5.62	cps
Iron	57-2	2370	2314	2114	2266	5.95	cps
Iron	54-2	6035	6055	5845	5978	1.94	cps
Krypton	83-1	340	280	313	311	9.66	cps

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Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	CCB004	Instrumnet Name :	P7
Client Sample ID :	CCB004	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 10:19:57	DataFile Name :	018CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	10751	6568	4804	7375	41.42	cps
Lead	207-1	9293	6068	4084	6482	40.56	cps
Lead	208-1	42320	26937	18955	29404	40.39	cps
Lithium	6-1	3162859	3206830	3263430	3211040	1.57	cps
Magnesium	24-2	6411	5975	5284	5890	9.65	cps
Manganese	55-2	14290	14224	13883	14132	1.54	cps
Molybdenum	94-1	10904	7165	5458	7842	35.52	cps
Molybdenum	95-1	12596	6912	4134	7880	54.73	cps
Molybdenum	96-1	14184	8039	4971	9065	51.75	cps
Molybdenum	97-1	8026	4377	2500	4968	56.56	cps
Molybdenum	98-1	20305	10824	7042	12723	53.70	cps
Neodymium	150-1	20	7	23	17	52.90	cps
Neodymium	150-2	17	17	20	18	10.81	cps
Nickel	60-2	777	760	810	782	3.25	cps
Phosphorus	31-2	467	357	420	414	13.32	cps
Potassium	39-2	99013	97832	95658	97501	1.75	cps
Rhodium	103-1	26386505	27100725	27207715	26898315	1.66	cps
Rhodium	103-2	16266776	16143611	15963704	16124697	0.95	cps
Scandium	45-1	15464183	15738492	15809305	15670660	1.16	cps
Scandium	45-2	1324399	1284631	1293483	1300838	1.61	cps
Selenium	82-1	586	566	474	542	10.97	cps
Selenium	77-2	0	0	0	0	0.00	cps
Selenium	78-2	477	453	457	462	2.73	cps
Silicon	28-1	1293673	1269350	1288007	1283676	0.99	cps
Silver	107-1	3801	2047	1307	2385	53.71	cps
Silver	109-1	3407	1840	1023	2090	57.95	cps
Sodium	23-2	96564	94440	94410	95138	1.30	cps
Strontium	86-1	1597	1360	1167	1375	15.67	cps
Strontium	88-1	9740	6668	5124	7178	32.74	cps
Sulfur	34-1	249973	249807	253492	251090	0.83	cps
Terbium	159-1	33273425	34194739	34212747	33893637	1.58	cps
Terbium	159-2	22715155	22505943	22740693	22653930	0.57	cps
Thallium	203-1	3584	2497	1783	2621	34.59	cps
Thallium	205-1	7942	5505	4501	5983	29.58	cps
Tin	118-1	10164	9583	9246	9664	4.80	cps
Titanium	47-1	2774	1637	877	1762	54.17	cps

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On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	CCB004	Instrumnet Name :	P7
Client Sample ID :	CCB004	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 10:19:57	DataFile Name :	018CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	5441	2704	1213	3119	68.74	cps
Vanadium	51-2	123	93	103	107	14.32	cps
Yttrium	89-1	37611401	38360562	38642746	38204903	1.40	cps
Yttrium	89-2	9489899	9457784	9434440	9460708	0.29	cps
Zinc	66-2	14290	14407	13643	14113	2.92	cps
Zirconium	90-1	9827	8376	8169	8791	10.28	cps
Zirconium	91-1	2257	1783	1700	1913	15.69	cps

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On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	PB165018BL	Instrumnet Name :	P7
Client Sample ID :	PBW018	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 10:23:13	DataFile Name :	019CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	692	661	728	694	4.79	cps
Antimony	121-1	940	1263	1680	1295	28.66	cps
Arsenic	75-2	30	10	10	17	69.28	cps
Barium	135-1	370	403	337	370	9.01	cps
Barium	137-1	623	500	553	559	11.07	cps
Beryllium	9-1	78	122	128	109	25.08	cps
Bismuth	209-1	20629353	19898540	19929841	20152578	2.05	cps
Bismuth	209-2	16069632	16063638	15897391	16010220	0.61	cps
Bromine	81-1	15875	16396	16339	16203	1.76	cps
Bromine	81-2	117	90	130	112	18.15	cps
Cadmium	108-1	67	47	17	43	58.07	cps
Cadmium	106-1	10914	10184	10167	10422	4.09	cps
Cadmium	111-1	7727	7233	7202	7387	3.99	cps
Calcium	43-1	6905	7048	7025	6993	1.10	cps
Calcium	44-1	132825	135411	136552	134929	1.42	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	6582	6525	6645	6584	0.91	cps
Cobalt	59-2	217	233	270	240	11.37	cps
Copper	63-2	2770	2744	3097	2870	6.86	cps
Dysprosium	156-1	67	60	50	59	14.25	cps
Dysprosium	156-2	13	17	23	18	28.64	cps
Erbium	164-1	143	137	153	144	5.81	cps
Erbium	164-2	110	87	83	93	15.57	cps
Gadolinium	160-1	160	157	130	149	11.04	cps
Gadolinium	160-2	1097	1240	1173	1170	6.13	cps
Holmium	165-1	34723329	33531931	33918149	34057803	1.78	cps
Holmium	165-2	23320187	23201749	23177138	23233025	0.33	cps
Indium	115-1	30244517	29143081	29296684	29561428	2.02	cps
Indium	115-2	9938519	9906323	9911316	9918719	0.17	cps
Iron	56-2	42391	40000	40143	40845	3.28	cps
Iron	57-2	1890	1847	1677	1805	6.25	cps
Iron	54-2	5231	5154	5034	5140	1.93	cps
Krypton	83-1	300	393	327	340	14.14	cps

Reviewed By:Mohan
On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	PB165018BL	Instrumnet Name :	P7
Client Sample ID :	PBW018	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 10:23:13	DataFile Name :	019CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	3474	3060	3180	3238	6.57	cps
Lead	207-1	2854	2800	2527	2727	6.43	cps
Lead	208-1	13243	12873	12516	12877	2.82	cps
Lithium	6-1	3267132	3332292	3239730	3279718	1.45	cps
Magnesium	24-2	3604	3610	3517	3577	1.46	cps
Manganese	55-2	13856	13353	14274	13828	3.33	cps
Molybdenum	94-1	1257	1440	1573	1423	11.17	cps
Molybdenum	95-1	417	537	590	514	17.26	cps
Molybdenum	96-1	713	803	863	793	9.52	cps
Molybdenum	97-1	360	367	347	358	2.85	cps
Molybdenum	98-1	753	843	973	857	12.91	cps
Neodymium	150-1	20	7	20	16	49.47	cps
Neodymium	150-2	3	17	13	11	62.48	cps
Nickel	60-2	690	773	680	714	7.17	cps
Phosphorus	31-2	393	390	347	377	6.91	cps
Potassium	39-2	90490	90426	89890	90269	0.37	cps
Rhodium	103-1	28440798	27808000	28036330	28095043	1.14	cps
Rhodium	103-2	16497809	16380906	16197263	16358659	0.93	cps
Scandium	45-1	16368702	16328609	16082621	16259977	0.95	cps
Scandium	45-2	1315974	1345373	1330459	1330602	1.10	cps
Selenium	82-1	646	496	462	535	18.28	cps
Selenium	77-2	0	13	3	6	124.93	cps
Selenium	78-2	533	457	500	497	7.74	cps
Silicon	28-1	1253997	1286522	1280646	1273722	1.36	cps
Silver	107-1	500	440	400	447	11.27	cps
Silver	109-1	393	400	333	376	9.78	cps
Sodium	23-2	85147	84520	84956	84874	0.38	cps
Strontium	86-1	1040	890	1003	978	8.00	cps
Strontium	88-1	3791	3781	4237	3936	6.63	cps
Sulfur	34-1	260701	263626	264044	262790	0.69	cps
Terbium	159-1	35543713	34390300	34823370	34919128	1.67	cps
Terbium	159-2	22647672	22801662	23343246	22930860	1.59	cps
Thallium	203-1	1277	1137	1170	1195	6.12	cps
Thallium	205-1	2800	2787	2624	2737	3.60	cps
Tin	118-1	8473	8539	8940	8651	2.92	cps
Titanium	47-1	277	330	253	287	13.71	cps

Reviewed By:Mohan
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Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	PB165018BL	Instrumnet Name :	P7
Client Sample ID :	PBW018	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 10:23:13	DataFile Name :	019CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	167	83	113	121	34.85	cps
Vanadium	51-2	53	53	63	57	10.19	cps
Yttrium	89-1	39867981	39101945	39465266	39478397	0.97	cps
Yttrium	89-2	9497724	9534534	9536735	9522998	0.23	cps
Zinc	66-2	14337	14033	13963	14111	1.41	cps
Zirconium	90-1	3034	3377	3741	3384	10.45	cps
Zirconium	91-1	607	703	853	721	17.24	cps

Reviewed By:Mohan
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Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	PB165018BS	Instrumnet Name :	P7
Client Sample ID :	LCS018	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 10:26:27	DataFile Name :	020LCSE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	22268	21777	22311	22119	1.34	cps
Antimony	121-1	102784	105768	107958	105504	2.46	cps
Arsenic	75-2	2700	2954	2730	2795	4.95	cps
Barium	135-1	122118	126126	126301	124848	1.89	cps
Barium	137-1	214164	218710	220124	217666	1.43	cps
Beryllium	9-1	5201	5212	5434	5282	2.49	cps
Bismuth	209-1	19691128	19073761	19245564	19336817	1.65	cps
Bismuth	209-2	16292716	16137895	16002451	16144354	0.90	cps
Bromine	81-1	16636	16556	17153	16782	1.93	cps
Bromine	81-2	93	127	77	99	25.75	cps
Cadmium	108-1	857	1000	1143	1000	14.33	cps
Cadmium	106-1	11818	11508	11188	11505	2.74	cps
Cadmium	111-1	21099	21342	20601	21014	1.80	cps
Calcium	43-1	74750	76987	78214	76650	2.29	cps
Calcium	44-1	1213249	1245269	1259209	1239242	1.90	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	50424	49815	49732	49990	0.76	cps
Cobalt	59-2	35636	36521	35268	35808	1.80	cps
Copper	63-2	56660	55178	56416	56085	1.42	cps
Dysprosium	156-1	47	57	43	49	14.20	cps
Dysprosium	156-2	20	37	23	27	33.08	cps
Erbium	164-1	180	90	160	143	32.97	cps
Erbium	164-2	113	70	77	87	26.92	cps
Gadolinium	160-1	160	183	127	157	18.18	cps
Gadolinium	160-2	1247	1227	1177	1217	2.96	cps
Holmium	165-1	33598022	32443549	32751075	32930882	1.82	cps
Holmium	165-2	23578185	23235338	23257375	23356966	0.82	cps
Indium	115-1	29256499	28599612	28914786	28923632	1.14	cps
Indium	115-2	9986982	9979827	10013662	9993490	0.18	cps
Iron	56-2	4091740	4068539	4140855	4100378	0.90	cps
Iron	57-2	105118	103134	104453	104235	0.97	cps
Iron	54-2	229023	231089	230227	230113	0.45	cps
Krypton	83-1	320	287	283	297	6.84	cps

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	PB165018BS	Instrumnet Name :	P7
Client Sample ID :	LCS018	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 10:26:27	DataFile Name :	020LCSE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	39133	40597	40918	40216	2.37	cps
Lead	207-1	34851	36566	35897	35772	2.42	cps
Lead	208-1	158703	163301	163674	161893	1.71	cps
Lithium	6-1	3293949	3113727	3187469	3198382	2.83	cps
Magnesium	24-2	934523	936146	927046	932571	0.52	cps
Manganese	55-2	29896	30548	31035	30493	1.87	cps
Molybdenum	94-1	111141	111383	112954	111826	0.88	cps
Molybdenum	95-1	131723	136543	136395	134887	2.03	cps
Molybdenum	96-1	148734	152233	152660	151209	1.42	cps
Molybdenum	97-1	83319	84569	85056	84315	1.06	cps
Molybdenum	98-1	214936	220936	219381	218418	1.43	cps
Neodymium	150-1	17	30	37	28	36.66	cps
Neodymium	150-2	10	20	23	18	39.03	cps
Nickel	60-2	9697	10100	10147	9981	2.48	cps
Phosphorus	31-2	407	397	437	413	5.04	cps
Potassium	39-2	1206337	1212910	1218123	1212457	0.49	cps
Rhodium	103-1	27953833	27332916	27231085	27505945	1.42	cps
Rhodium	103-2	16507827	16362134	16321728	16397229	0.60	cps
Scandium	45-1	16199469	15700221	16136028	16011906	1.70	cps
Scandium	45-2	1312519	1320081	1353983	1328861	1.66	cps
Selenium	82-1	4520	4818	4701	4680	3.20	cps
Selenium	77-2	457	380	400	412	9.65	cps
Selenium	78-2	1773	1823	1803	1800	1.40	cps
Silicon	28-1	1512200	1530928	1546991	1530040	1.14	cps
Silver	107-1	69154	70798	71254	70402	1.57	cps
Silver	109-1	65517	66736	68297	66850	2.08	cps
Sodium	23-2	1607959	1589034	1639111	1612035	1.57	cps
Strontium	86-1	17594	17724	18231	17850	1.89	cps
Strontium	88-1	151360	153343	154350	153018	0.99	cps
Sulfur	34-1	277499	279251	281920	279557	0.80	cps
Terbium	159-1	34454049	33486583	33792477	33911036	1.46	cps
Terbium	159-2	23212559	23029615	23161936	23134703	0.41	cps
Thallium	203-1	46332	46235	46961	46509	0.85	cps
Thallium	205-1	108192	109937	111176	109768	1.37	cps
Tin	118-1	8496	8903	9223	8874	4.11	cps
Titanium	47-1	32652	33487	33567	33235	1.53	cps

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LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	PB165018BS	Instrumnet Name :	P7
Client Sample ID :	LCS018	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 10:26:27	DataFile Name :	020LCSE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	129948	133149	136602	133233	2.50	cps
Vanadium	51-2	92149	91532	91200	91627	0.53	cps
Yttrium	89-1	39339742	38251927	38940327	38843999	1.42	cps
Yttrium	89-2	9665945	9533687	9568719	9589450	0.71	cps
Zinc	66-2	36825	36458	36070	36451	1.04	cps
Zirconium	90-1	93941	97843	97138	96308	2.16	cps
Zirconium	91-1	20838	21579	20858	21092	2.00	cps

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LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	PB165103BL	Instrumnet Name :	P7
Client Sample ID :	PBW103	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 10:29:41	DataFile Name :	021CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	701	651	721	691	5.19	cps
Antimony	121-1	453	547	640	547	17.07	cps
Arsenic	75-2	17	17	3	12	63.01	cps
Barium	135-1	350	353	407	370	8.59	cps
Barium	137-1	610	660	580	617	6.55	cps
Beryllium	9-1	61	67	78	69	12.39	cps
Bismuth	209-1	19771608	19812836	19877437	19820627	0.27	cps
Bismuth	209-2	16143868	16297169	16105137	16182058	0.63	cps
Bromine	81-1	17300	17540	17324	17388	0.76	cps
Bromine	81-2	100	113	80	98	17.16	cps
Cadmium	108-1	37	43	37	39	9.89	cps
Cadmium	106-1	10697	10374	10591	10554	1.56	cps
Cadmium	111-1	7556	7348	7468	7457	1.40	cps
Calcium	43-1	7088	7529	7365	7327	3.04	cps
Calcium	44-1	137533	137261	137695	137496	0.16	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	7225	6648	6985	6953	4.17	cps
Cobalt	59-2	330	297	337	321	6.67	cps
Copper	63-2	2800	2850	2854	2835	1.05	cps
Dysprosium	156-1	43	30	43	39	19.79	cps
Dysprosium	156-2	17	10	17	14	26.66	cps
Erbium	164-1	97	107	160	121	28.11	cps
Erbium	164-2	77	63	87	76	15.50	cps
Gadolinium	160-1	187	160	167	171	8.11	cps
Gadolinium	160-2	1163	1250	1187	1200	3.74	cps
Holmium	165-1	33747209	33860863	34165945	33924672	0.64	cps
Holmium	165-2	23343215	23426120	23230876	23333404	0.42	cps
Indium	115-1	29516668	29402075	29926174	29614972	0.93	cps
Indium	115-2	10083894	9966650	10079164	10043236	0.66	cps
Iron	56-2	41216	41236	42015	41489	1.10	cps
Iron	57-2	1947	1990	1930	1956	1.58	cps
Iron	54-2	5461	5418	5418	5432	0.46	cps
Krypton	83-1	287	290	260	279	5.90	cps

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	PB165103BL	Instrumnet Name :	P7
Client Sample ID :	PBW103	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 10:29:41	DataFile Name :	021CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	2997	3170	3004	3057	3.21	cps
Lead	207-1	2670	2527	2820	2673	5.49	cps
Lead	208-1	11732	12106	12162	12000	1.95	cps
Lithium	6-1	3247186	3288040	3247186	3260804	0.72	cps
Magnesium	24-2	3784	3804	3977	3855	2.76	cps
Manganese	55-2	14380	14020	13930	14110	1.69	cps
Molybdenum	94-1	1107	1190	1864	1387	29.93	cps
Molybdenum	95-1	317	290	987	531	74.36	cps
Molybdenum	96-1	387	507	1608	834	80.73	cps
Molybdenum	97-1	220	153	650	341	79.05	cps
Molybdenum	98-1	517	497	1374	796	62.94	cps
Neodymium	150-1	23	23	30	26	15.07	cps
Neodymium	150-2	10	27	3	13	90.16	cps
Nickel	60-2	757	807	703	756	6.84	cps
Phosphorus	31-2	390	463	400	418	9.52	cps
Potassium	39-2	87446	86608	86504	86852	0.59	cps
Rhodium	103-1	28034065	28250679	28556416	28280387	0.93	cps
Rhodium	103-2	16688611	16411470	16515424	16538502	0.85	cps
Scandium	45-1	16221555	16408684	16652528	16427589	1.32	cps
Scandium	45-2	1365117	1336128	1385313	1362186	1.81	cps
Selenium	82-1	652	629	591	624	4.94	cps
Selenium	77-2	0	0	0	0	0.00	cps
Selenium	78-2	453	473	440	456	3.68	cps
Silicon	28-1	1289496	1324784	1329511	1314597	1.66	cps
Silver	107-1	430	500	510	480	9.08	cps
Silver	109-1	390	367	410	389	5.58	cps
Sodium	23-2	79993	79936	79966	79965	0.04	cps
Strontium	86-1	930	960	1120	1003	10.18	cps
Strontium	88-1	4147	4331	4988	4489	9.85	cps
Sulfur	34-1	283818	281546	282412	282592	0.41	cps
Terbium	159-1	34647900	35303484	34933479	34961621	0.94	cps
Terbium	159-2	23593337	23035868	23103803	23244336	1.31	cps
Thallium	203-1	853	737	913	834	10.77	cps
Thallium	205-1	1940	1867	1867	1891	2.24	cps
Tin	118-1	8102	8363	8553	8339	2.71	cps
Titanium	47-1	270	257	267	264	2.62	cps

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LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	PB165103BL	Instrumnet Name :	P7
Client Sample ID :	PBW103	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 10:29:41	DataFile Name :	021CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	100	77	90	89	13.17	cps
Vanadium	51-2	30	37	33	33	10.01	cps
Yttrium	89-1	39641622	39950238	40178509	39923456	0.67	cps
Yttrium	89-2	9748514	9737266	9704352	9730044	0.24	cps
Zinc	66-2	14741	14674	13933	14449	3.10	cps
Zirconium	90-1	2410	2704	3247	2787	15.24	cps
Zirconium	91-1	473	650	690	604	19.07	cps

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LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	PB165103BS	Instrumnet Name :	P7
Client Sample ID :	LCS103	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 10:32:55	DataFile Name :	022CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	22475	21696	22276	22149	1.83	cps
Antimony	121-1	104153	105930	106370	105484	1.11	cps
Arsenic	75-2	2747	2754	2730	2744	0.44	cps
Barium	135-1	125017	125292	128652	126320	1.60	cps
Barium	137-1	216442	220496	217286	218075	0.98	cps
Beryllium	9-1	5151	5384	5123	5219	2.75	cps
Bismuth	209-1	19792669	19849611	19642761	19761680	0.54	cps
Bismuth	209-2	16127281	16016020	15757014	15966772	1.19	cps
Bromine	81-1	16740	17747	17387	17291	2.95	cps
Bromine	81-2	130	97	87	104	21.72	cps
Cadmium	108-1	1060	1060	1013	1044	2.58	cps
Cadmium	106-1	11942	11942	12078	11987	0.66	cps
Cadmium	111-1	21424	21431	21649	21501	0.60	cps
Calcium	43-1	76120	76890	78113	77041	1.30	cps
Calcium	44-1	1254501	1262203	1267698	1261467	0.53	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	49943	51548	50384	50625	1.64	cps
Cobalt	59-2	35656	36605	35936	36066	1.35	cps
Copper	63-2	56503	56469	56456	56476	0.04	cps
Dysprosium	156-1	27	50	83	53	53.39	cps
Dysprosium	156-2	30	20	27	26	19.92	cps
Erbium	164-1	167	153	110	143	20.67	cps
Erbium	164-2	63	90	80	78	17.32	cps
Gadolinium	160-1	110	120	157	129	19.06	cps
Gadolinium	160-2	1313	1233	1353	1300	4.70	cps
Holmium	165-1	33752471	34011024	34225630	33996375	0.70	cps
Holmium	165-2	23322570	23024787	23296777	23214711	0.71	cps
Indium	115-1	29419736	29344536	29775571	29513281	0.78	cps
Indium	115-2	10217920	10061326	9869002	10049416	1.74	cps
Iron	56-2	4153091	4151128	4120644	4141621	0.44	cps
Iron	57-2	104084	105426	104641	104717	0.64	cps
Iron	54-2	231178	230334	234166	231892	0.87	cps
Krypton	83-1	300	303	293	299	1.70	cps

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	PB165103BS	Instrumnet Name :	P7
Client Sample ID :	LCS103	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 10:32:55	DataFile Name :	022CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	39216	40644	40477	40112	1.95	cps
Lead	207-1	34511	34871	35296	34893	1.13	cps
Lead	208-1	157399	161264	159190	159284	1.21	cps
Lithium	6-1	3226570	3297878	3285670	3270039	1.17	cps
Magnesium	24-2	938603	940161	938859	939208	0.09	cps
Manganese	55-2	30938	30782	30822	30847	0.26	cps
Molybdenum	94-1	111695	114224	115134	113685	1.57	cps
Molybdenum	95-1	134976	136896	136947	136273	0.82	cps
Molybdenum	96-1	150361	152408	152586	151785	0.81	cps
Molybdenum	97-1	84703	85649	85518	85290	0.60	cps
Molybdenum	98-1	216749	218915	221183	218949	1.01	cps
Neodymium	150-1	20	20	27	22	17.33	cps
Neodymium	150-2	10	10	7	9	21.63	cps
Nickel	60-2	10077	10584	10234	10298	2.52	cps
Phosphorus	31-2	417	423	467	436	6.23	cps
Potassium	39-2	1240555	1217407	1210074	1222679	1.30	cps
Rhodium	103-1	28318998	28270995	28367175	28319056	0.17	cps
Rhodium	103-2	16661153	16374854	16227686	16421231	1.34	cps
Scandium	45-1	16394264	16799240	16799086	16664197	1.40	cps
Scandium	45-2	1330792	1344420	1354421	1343211	0.88	cps
Selenium	82-1	4847	4694	4693	4744	1.87	cps
Selenium	77-2	403	347	367	372	7.72	cps
Selenium	78-2	1837	1773	1873	1828	2.77	cps
Silicon	28-1	1543309	1568290	1566643	1559414	0.90	cps
Silver	107-1	69569	72141	71729	71147	1.94	cps
Silver	109-1	66441	67653	68383	67493	1.45	cps
Sodium	23-2	1591000	1650633	1613869	1618501	1.86	cps
Strontium	86-1	18145	18478	18311	18311	0.91	cps
Strontium	88-1	153226	154017	155220	154154	0.65	cps
Sulfur	34-1	295208	294481	294727	294805	0.13	cps
Terbium	159-1	34649046	34842659	34667171	34719625	0.31	cps
Terbium	159-2	22988906	22940930	23264045	23064627	0.76	cps
Thallium	203-1	45813	45904	46466	46061	0.77	cps
Thallium	205-1	107218	109126	110675	109007	1.59	cps
Tin	118-1	8776	9230	8980	8995	2.53	cps
Titanium	47-1	32916	33193	33423	33177	0.77	cps

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Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	PB165103BS	Instrumnet Name :	P7
Client Sample ID :	LCS103	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 10:32:55	DataFile Name :	022CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	131371	133175	132957	132501	0.74	cps
Vanadium	51-2	92592	91559	91807	91986	0.59	cps
Yttrium	89-1	39644387	40732878	40044658	40140641	1.37	cps
Yttrium	89-2	9720508	9643643	9670118	9678090	0.40	cps
Zinc	66-2	35071	35699	35689	35487	1.01	cps
Zirconium	90-1	95424	96642	98151	96739	1.41	cps
Zirconium	91-1	20718	21215	21876	21270	2.73	cps

Reviewed By:Mohan
On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	PB165104BL	Instrumnet Name :	P7
Client Sample ID :	PBW104	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 10:36:08	DataFile Name :	023SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	634	611	634	626	2.15	cps
Antimony	121-1	323	370	443	379	15.97	cps
Arsenic	75-2	13	13	17	14	13.35	cps
Barium	135-1	340	343	390	358	7.81	cps
Barium	137-1	580	577	623	593	4.39	cps
Beryllium	9-1	94	89	94	93	3.47	cps
Bismuth	209-1	20066660	18609591	19568275	19414842	3.81	cps
Bismuth	209-2	16030443	16092796	15855601	15992947	0.77	cps
Bromine	81-1	18175	17153	17591	17640	2.90	cps
Bromine	81-2	113	83	110	102	16.09	cps
Cadmium	108-1	33	20	10	21	55.45	cps
Cadmium	106-1	10884	9947	10637	10489	4.63	cps
Cadmium	111-1	7682	7049	7512	7414	4.42	cps
Calcium	43-1	6992	7515	7385	7297	3.74	cps
Calcium	44-1	135754	139564	139407	138242	1.56	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	6975	6682	7002	6886	2.58	cps
Cobalt	59-2	310	347	380	346	10.13	cps
Copper	63-2	2930	2814	2797	2847	2.55	cps
Dysprosium	156-1	17	43	40	33	43.58	cps
Dysprosium	156-2	10	3	20	11	75.52	cps
Erbium	164-1	140	107	150	132	17.16	cps
Erbium	164-2	60	107	70	79	31.15	cps
Gadolinium	160-1	230	143	147	173	28.33	cps
Gadolinium	160-2	1233	1187	1290	1237	4.18	cps
Holmium	165-1	34618977	31758615	33768635	33382075	4.40	cps
Holmium	165-2	23152414	23159295	23160973	23157561	0.02	cps
Indium	115-1	30710920	27744403	29923627	29459650	5.22	cps
Indium	115-2	9999763	10024615	9985357	10003245	0.20	cps
Iron	56-2	41898	41581	41521	41667	0.49	cps
Iron	57-2	1893	1987	2060	1980	4.22	cps
Iron	54-2	5448	5384	5178	5337	2.65	cps
Krypton	83-1	340	360	327	342	4.90	cps

Reviewed By:Mohan
On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	PB165104BL	Instrumnet Name :	P7
Client Sample ID :	PBW104	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 10:36:08	DataFile Name :	023SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	2740	2844	2820	2801	1.94	cps
Lead	207-1	2454	2560	2524	2512	2.16	cps
Lead	208-1	11285	11232	11479	11332	1.15	cps
Lithium	6-1	3366945	3116670	3273019	3252211	3.89	cps
Magnesium	24-2	3574	3680	3520	3592	2.27	cps
Manganese	55-2	14837	14494	14163	14498	2.32	cps
Molybdenum	94-1	867	953	1013	944	7.81	cps
Molybdenum	95-1	233	197	203	211	9.25	cps
Molybdenum	96-1	443	377	400	407	8.32	cps
Molybdenum	97-1	207	110	137	151	33.04	cps
Molybdenum	98-1	380	310	307	332	12.46	cps
Neodymium	150-1	20	17	10	16	32.73	cps
Neodymium	150-2	10	13	7	10	33.30	cps
Nickel	60-2	713	743	633	697	8.16	cps
Phosphorus	31-2	453	440	397	430	6.89	cps
Potassium	39-2	85381	84245	84087	84571	0.83	cps
Rhodium	103-1	29343081	27075391	28677407	28365293	4.11	cps
Rhodium	103-2	16298146	16343554	16365028	16335576	0.21	cps
Scandium	45-1	16819266	15580569	16717286	16372374	4.20	cps
Scandium	45-2	1341757	1361372	1355090	1352740	0.74	cps
Selenium	82-1	525	419	446	464	11.93	cps
Selenium	77-2	3	3	0	2	86.60	cps
Selenium	78-2	527	513	440	493	9.46	cps
Silicon	28-1	1361522	1354072	1354477	1356690	0.31	cps
Silver	107-1	473	460	363	432	13.89	cps
Silver	109-1	370	287	267	308	17.81	cps
Sodium	23-2	76381	77145	80112	77880	2.53	cps
Strontium	86-1	967	1037	1000	1001	3.50	cps
Strontium	88-1	4341	4331	4361	4344	0.35	cps
Sulfur	34-1	294773	291678	294464	293638	0.58	cps
Terbium	159-1	35360808	32968430	34803280	34377506	3.64	cps
Terbium	159-2	22957643	22622980	22998370	22859664	0.90	cps
Thallium	203-1	620	723	540	628	14.64	cps
Thallium	205-1	1603	1643	1460	1569	6.14	cps
Tin	118-1	8202	8219	8339	8254	0.90	cps
Titanium	47-1	327	250	270	282	14.09	cps

Reviewed By:Mohan
On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	PB165104BL	Instrumnet Name :	P7
Client Sample ID :	PBW104	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 10:36:08	DataFile Name :	023SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	103	87	77	89	15.16	cps
Vanadium	51-2	63	50	63	59	13.07	cps
Yttrium	89-1	40621571	37629187	40329955	39526904	4.17	cps
Yttrium	89-2	9586456	9590678	9689680	9622272	0.61	cps
Zinc	66-2	14180	14100	14244	14175	0.51	cps
Zirconium	90-1	2450	2420	2907	2592	10.52	cps
Zirconium	91-1	463	550	593	536	12.36	cps

Reviewed By:Mohan
On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	PB165104BS	Instrumnet Name :	P7
Client Sample ID :	LCS104	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 10:39:22	DataFile Name :	024SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	21497	21970	21949	21806	1.22	cps
Antimony	121-1	105023	105738	106225	105662	0.57	cps
Arsenic	75-2	2820	2814	2770	2801	0.97	cps
Barium	135-1	124132	126744	126519	125798	1.15	cps
Barium	137-1	215271	219171	218052	217498	0.92	cps
Beryllium	9-1	5073	4890	4879	4947	2.21	cps
Bismuth	209-1	19413621	19421737	19529627	19454995	0.33	cps
Bismuth	209-2	15742280	16051962	15940369	15911537	0.99	cps
Bromine	81-1	17023	16927	16987	16979	0.29	cps
Bromine	81-2	103	103	107	104	1.84	cps
Cadmium	108-1	1123	1100	1090	1105	1.55	cps
Cadmium	106-1	12569	12105	11835	12170	3.05	cps
Cadmium	111-1	21605	22027	21325	21652	1.63	cps
Calcium	43-1	76853	78562	77677	77698	1.10	cps
Calcium	44-1	1215959	1266945	1249917	1244274	2.09	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	50564	50026	50926	50505	0.90	cps
Cobalt	59-2	36421	36140	35930	36164	0.68	cps
Copper	63-2	56630	56239	56583	56484	0.38	cps
Dysprosium	156-1	43	57	33	44	26.35	cps
Dysprosium	156-2	23	23	20	22	8.65	cps
Erbium	164-1	140	130	153	141	8.30	cps
Erbium	164-2	97	63	57	72	29.67	cps
Gadolinium	160-1	150	170	163	161	6.32	cps
Gadolinium	160-2	1160	1270	1187	1206	4.76	cps
Holmium	165-1	33828760	33618497	33536297	33661185	0.45	cps
Holmium	165-2	23067145	22900858	22800986	22922996	0.59	cps
Indium	115-1	29452040	30164057	29884930	29833676	1.20	cps
Indium	115-2	9976758	9961773	10066127	10001552	0.56	cps
Iron	56-2	4110263	4109558	4053957	4091259	0.79	cps
Iron	57-2	103872	104251	103476	103867	0.37	cps
Iron	54-2	230190	229666	227835	229230	0.54	cps
Krypton	83-1	347	287	310	314	9.62	cps

Reviewed By:Mohan
On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	PB165104BS	Instrumnet Name :	P7
Client Sample ID :	LCS104	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 10:39:22	DataFile Name :	024SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	38671	39119	39437	39076	0.98	cps
Lead	207-1	34688	34634	34454	34592	0.35	cps
Lead	208-1	155559	157335	156724	156539	0.58	cps
Lithium	6-1	3226148	3260476	3126259	3204294	2.18	cps
Magnesium	24-2	924988	918532	931737	925086	0.71	cps
Manganese	55-2	30594	30174	30387	30385	0.69	cps
Molybdenum	94-1	111053	113814	112669	112512	1.23	cps
Molybdenum	95-1	134037	136695	136655	135795	1.12	cps
Molybdenum	96-1	149576	153600	153041	152072	1.43	cps
Molybdenum	97-1	84331	84951	85052	84778	0.46	cps
Molybdenum	98-1	216559	218737	221103	218799	1.04	cps
Neodymium	150-1	20	33	20	24	31.49	cps
Neodymium	150-2	0	3	20	8	137.80	cps
Nickel	60-2	10224	10020	10117	10120	1.01	cps
Phosphorus	31-2	430	413	443	429	3.50	cps
Potassium	39-2	1212953	1216796	1219750	1216500	0.28	cps
Rhodium	103-1	28415933	28334436	28216450	28322273	0.35	cps
Rhodium	103-2	16352957	16429998	16396961	16393305	0.24	cps
Scandium	45-1	16400976	16778808	16651701	16610495	1.16	cps
Scandium	45-2	1352301	1324171	1323531	1333335	1.23	cps
Selenium	82-1	4752	4850	4629	4744	2.33	cps
Selenium	77-2	407	327	380	371	10.98	cps
Selenium	78-2	1763	1860	1877	1833	3.34	cps
Silicon	28-1	1594121	1632267	1580802	1602397	1.67	cps
Silver	107-1	68990	70791	70859	70213	1.51	cps
Silver	109-1	66033	67603	68712	67449	2.00	cps
Sodium	23-2	1620279	1588672	1618936	1609296	1.11	cps
Strontium	86-1	17747	18251	18028	18009	1.40	cps
Strontium	88-1	152480	153370	156106	153985	1.23	cps
Sulfur	34-1	299386	295133	296707	297075	0.72	cps
Terbium	159-1	34628015	34885654	34796354	34770008	0.38	cps
Terbium	159-2	22805586	22934546	22874310	22871481	0.28	cps
Thallium	203-1	45011	45586	45736	45444	0.84	cps
Thallium	205-1	106839	108199	106358	107132	0.89	cps
Tin	118-1	8733	8569	8659	8654	0.95	cps
Titanium	47-1	33330	34422	33617	33790	1.68	cps

Reviewed By:Mohan
On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	PB165104BS	Instrumnet Name :	P7
Client Sample ID :	LCS104	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 10:39:22	DataFile Name :	024SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	128981	130563	130212	129919	0.64	cps
Vanadium	51-2	90697	91271	89902	90623	0.76	cps
Yttrium	89-1	39596123	40026025	39756778	39792975	0.55	cps
Yttrium	89-2	9636454	9626396	9599286	9620712	0.20	cps
Zinc	66-2	35038	34794	34737	34856	0.46	cps
Zirconium	90-1	95333	97340	97189	96621	1.16	cps
Zirconium	91-1	21553	21339	21205	21366	0.82	cps

Reviewed By:Mohan
On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	PB165107BL	Instrumnet Name :	P7
Client Sample ID :	PBS107	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 10:42:35	DataFile Name :	025SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	634	621	567	608	5.83	cps
Antimony	121-1	187	193	297	226	27.34	cps
Arsenic	75-2	3	20	13	12	68.66	cps
Barium	135-1	337	407	350	364	10.20	cps
Barium	137-1	670	653	560	628	9.44	cps
Beryllium	9-1	83	78	39	67	36.33	cps
Bismuth	209-1	19438283	19569898	19632792	19546991	0.51	cps
Bismuth	209-2	15962388	16002951	15960411	15975250	0.15	cps
Bromine	81-1	17053	16443	16713	16736	1.83	cps
Bromine	81-2	67	127	107	100	30.55	cps
Cadmium	108-1	40	30	40	37	15.75	cps
Cadmium	106-1	10634	10387	10377	10466	1.39	cps
Cadmium	111-1	7459	7310	7306	7358	1.19	cps
Calcium	43-1	7352	7555	7682	7530	2.21	cps
Calcium	44-1	135852	137550	137678	137027	0.74	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	6688	6772	6722	6727	0.62	cps
Cobalt	59-2	317	257	330	301	12.97	cps
Copper	63-2	2560	2427	2710	2566	5.53	cps
Dysprosium	156-1	43	70	47	53	27.24	cps
Dysprosium	156-2	17	40	10	22	70.88	cps
Erbium	164-1	117	140	160	139	15.61	cps
Erbium	164-2	80	53	87	73	24.06	cps
Gadolinium	160-1	177	110	160	149	23.30	cps
Gadolinium	160-2	1277	1277	1263	1272	0.61	cps
Holmium	165-1	32991495	33598061	33643641	33411066	1.09	cps
Holmium	165-2	23122389	22824930	23035157	22994159	0.66	cps
Indium	115-1	29318558	29590977	29598908	29502814	0.54	cps
Indium	115-2	10150498	10065437	9938330	10051422	1.06	cps
Iron	56-2	40003	41213	39666	40294	2.02	cps
Iron	57-2	1877	1907	2107	1963	6.37	cps
Iron	54-2	5514	5138	5208	5287	3.79	cps
Krypton	83-1	267	307	363	312	15.56	cps

Reviewed By:Mohan
On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	PB165107BL	Instrumnet Name :	P7
Client Sample ID :	PBS107	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 10:42:35	DataFile Name :	025SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	2757	2600	2584	2647	3.61	cps
Lead	207-1	2294	2284	2307	2295	0.51	cps
Lead	208-1	10842	10208	10658	10570	3.08	cps
Lithium	6-1	3223572	3222880	3243160	3229871	0.36	cps
Magnesium	24-2	3597	3504	3484	3528	1.71	cps
Manganese	55-2	14307	14083	14554	14315	1.64	cps
Molybdenum	94-1	843	933	917	898	5.33	cps
Molybdenum	95-1	180	180	197	186	5.19	cps
Molybdenum	96-1	373	380	337	363	6.42	cps
Molybdenum	97-1	117	137	123	126	8.11	cps
Molybdenum	98-1	290	277	307	291	5.16	cps
Neodymium	150-1	23	13	33	23	42.86	cps
Neodymium	150-2	10	17	13	13	25.01	cps
Nickel	60-2	720	697	690	702	2.24	cps
Phosphorus	31-2	417	423	393	411	3.83	cps
Potassium	39-2	82358	82368	83236	82654	0.61	cps
Rhodium	103-1	28281715	28247258	28489028	28339333	0.46	cps
Rhodium	103-2	16429032	16513214	16316394	16419546	0.60	cps
Scandium	45-1	16326814	16458364	16632838	16472672	0.93	cps
Scandium	45-2	1345843	1366287	1380904	1364345	1.29	cps
Selenium	82-1	549	460	506	505	8.85	cps
Selenium	77-2	7	3	0	3	100.05	cps
Selenium	78-2	500	507	513	507	1.32	cps
Silicon	28-1	1361532	1423946	1388675	1391384	2.25	cps
Silver	107-1	453	333	403	397	15.20	cps
Silver	109-1	313	277	243	278	12.60	cps
Sodium	23-2	74274	74442	74402	74373	0.12	cps
Strontium	86-1	983	957	1043	994	4.46	cps
Strontium	88-1	4291	4574	4361	4408	3.35	cps
Sulfur	34-1	289822	290524	289775	290040	0.14	cps
Terbium	159-1	34386433	34295100	34596979	34426171	0.45	cps
Terbium	159-2	22917610	22853073	22661078	22810587	0.58	cps
Thallium	203-1	443	497	447	462	6.46	cps
Thallium	205-1	1107	993	1003	1034	6.07	cps
Tin	118-1	8249	8102	8726	8359	3.90	cps
Titanium	47-1	317	243	237	266	16.71	cps

Reviewed By:Mohan
On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	PB165107BL	Instrumnet Name :	P7
Client Sample ID :	PBS107	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 10:42:35	DataFile Name :	025SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	117	87	70	91	25.96	cps
Vanadium	51-2	57	60	40	52	20.52	cps
Yttrium	89-1	39434718	40267240	40121014	39940991	1.11	cps
Yttrium	89-2	9664983	9719529	9738244	9707585	0.39	cps
Zinc	66-2	14080	14264	13907	14083	1.27	cps
Zirconium	90-1	2060	2384	2567	2337	10.98	cps
Zirconium	91-1	423	543	637	534	20.01	cps

Reviewed By:Mohan
On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	PB165107BS	Instrumnet Name :	P7
Client Sample ID :	LCS107	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 10:45:50	DataFile Name :	026SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	22083	22491	22019	22198	1.15	cps
Antimony	121-1	105396	106991	105933	106107	0.76	cps
Arsenic	75-2	2984	2617	2757	2786	6.64	cps
Barium	135-1	122568	125195	127172	124978	1.85	cps
Barium	137-1	215292	220040	221154	218829	1.42	cps
Beryllium	9-1	5045	5018	4973	5012	0.73	cps
Bismuth	209-1	19097965	19862078	19548399	19502814	1.97	cps
Bismuth	209-2	15980411	16044720	16219249	16081460	0.77	cps
Bromine	81-1	16606	17397	16860	16954	2.38	cps
Bromine	81-2	63	127	90	93	34.07	cps
Cadmium	108-1	1083	920	1010	1004	8.15	cps
Cadmium	106-1	11922	11958	12269	12050	1.58	cps
Cadmium	111-1	21076	21720	21611	21469	1.60	cps
Calcium	43-1	75225	78344	79041	77537	2.62	cps
Calcium	44-1	1238706	1285009	1256458	1260058	1.85	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	51681	51304	51956	51647	0.63	cps
Cobalt	59-2	37032	35706	36377	36372	1.82	cps
Copper	63-2	57704	58022	57386	57704	0.55	cps
Dysprosium	156-1	73	53	33	53	37.50	cps
Dysprosium	156-2	23	30	27	27	12.51	cps
Erbium	164-1	113	147	110	123	16.44	cps
Erbium	164-2	93	103	87	94	8.88	cps
Gadolinium	160-1	150	143	180	158	12.38	cps
Gadolinium	160-2	1310	1337	1270	1306	2.57	cps
Holmium	165-1	33328376	33730586	33536201	33531721	0.60	cps
Holmium	165-2	23050083	23359571	23386621	23265425	0.80	cps
Indium	115-1	29508257	29910381	30179164	29865934	1.13	cps
Indium	115-2	10111691	9999189	9913966	10008282	0.99	cps
Iron	56-2	4170281	4149610	4153321	4157737	0.27	cps
Iron	57-2	105040	105490	103464	104665	1.02	cps
Iron	54-2	232769	231399	231960	232042	0.30	cps
Krypton	83-1	373	343	280	332	14.34	cps

Reviewed By:Mohan
On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	PB165107BS	Instrumnet Name :	P7
Client Sample ID :	LCS107	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 10:45:50	DataFile Name :	026SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	38902	40443	38926	39424	2.24	cps
Lead	207-1	34056	35185	34624	34622	1.63	cps
Lead	208-1	153850	160958	157279	157362	2.26	cps
Lithium	6-1	3149202	3298462	3258918	3235527	2.39	cps
Magnesium	24-2	950136	938057	943110	943767	0.64	cps
Manganese	55-2	30761	31299	30494	30852	1.33	cps
Molybdenum	94-1	111762	113136	114768	113222	1.33	cps
Molybdenum	95-1	134340	136963	136432	135912	1.02	cps
Molybdenum	96-1	151135	154759	153678	153190	1.21	cps
Molybdenum	97-1	84536	86829	86102	85822	1.37	cps
Molybdenum	98-1	217029	221773	218937	219246	1.09	cps
Neodymium	150-1	30	30	37	32	11.95	cps
Neodymium	150-2	17	27	13	19	36.75	cps
Nickel	60-2	10160	9983	10060	10068	0.88	cps
Phosphorus	31-2	470	407	413	430	8.09	cps
Potassium	39-2	1261607	1245787	1239692	1249029	0.91	cps
Rhodium	103-1	28330312	28855769	28742939	28643007	0.97	cps
Rhodium	103-2	16324376	16451016	16308919	16361437	0.48	cps
Scandium	45-1	16623336	16853180	16700484	16725667	0.70	cps
Scandium	45-2	1364665	1367765	1370864	1367765	0.23	cps
Selenium	82-1	4558	4846	4674	4693	3.09	cps
Selenium	77-2	360	400	467	409	13.18	cps
Selenium	78-2	1897	1717	1817	1810	4.98	cps
Silicon	28-1	1606811	1631397	1638931	1625713	1.03	cps
Silver	107-1	70028	70698	71348	70691	0.93	cps
Silver	109-1	66408	67828	68899	67711	1.85	cps
Sodium	23-2	1626470	1641232	1615114	1627605	0.80	cps
Strontium	86-1	18031	18138	18375	18181	0.97	cps
Strontium	88-1	152087	154654	156193	154311	1.34	cps
Sulfur	34-1	302446	300920	303289	302219	0.40	cps
Terbium	159-1	34280642	34511322	35255695	34682553	1.47	cps
Terbium	159-2	23030722	23133151	23433114	23198996	0.90	cps
Thallium	203-1	45616	45857	47011	46161	1.62	cps
Thallium	205-1	106080	109204	108035	107773	1.46	cps
Tin	118-1	8686	9026	9010	8907	2.15	cps
Titanium	47-1	33080	34276	34095	33817	1.91	cps

Reviewed By:Mohan
On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	PB165107BS	Instrumnet Name :	P7
Client Sample ID :	LCS107	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 10:45:50	DataFile Name :	026SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	128577	130398	130348	129774	0.80	cps
Vanadium	51-2	93511	92081	94024	93205	1.08	cps
Yttrium	89-1	39228562	40603668	40507114	40113115	1.91	cps
Yttrium	89-2	9713987	9860493	9750422	9774967	0.78	cps
Zinc	66-2	35064	34694	34032	34597	1.51	cps
Zirconium	90-1	95518	96924	97521	96654	1.06	cps
Zirconium	91-1	20892	21733	21700	21441	2.22	cps

Reviewed By:Mohan
On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4728-16	Instrumnet Name :	P7
Client Sample ID :	MBH9G9	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 10:49:04	DataFile Name :	027SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	1235	1198	1565	1333	15.19	cps
Antimony	121-1	183	193	210	196	6.89	cps
Arsenic	75-2	13	3	37	18	96.24	cps
Barium	135-1	303	327	340	323	5.74	cps
Barium	137-1	617	523	503	548	11.04	cps
Beryllium	9-1	44	67	111	74	45.82	cps
Bismuth	209-1	21777926	21514113	21259541	21517193	1.20	cps
Bismuth	209-2	16973684	16824754	17244074	17014170	1.25	cps
Bromine	81-1	17460	18071	17818	17783	1.73	cps
Bromine	81-2	93	110	77	93	17.86	cps
Cadmium	108-1	30	27	37	31	16.37	cps
Cadmium	106-1	12265	11721	10911	11633	5.86	cps
Cadmium	111-1	8621	8256	7655	8178	5.97	cps
Calcium	43-1	2454	2410	2247	2370	4.60	cps
Calcium	44-1	55929	55782	56224	55978	0.40	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	4531	4301	4467	4433	2.68	cps
Cobalt	59-2	267	283	227	259	11.25	cps
Copper	63-2	2607	2670	2650	2642	1.23	cps
Dysprosium	156-1	43	53	47	48	10.66	cps
Dysprosium	156-2	20	3	27	17	72.13	cps
Erbium	164-1	150	167	150	156	6.19	cps
Erbium	164-2	83	90	87	87	3.85	cps
Gadolinium	160-1	180	203	170	184	9.28	cps
Gadolinium	160-2	1357	1217	1273	1282	5.49	cps
Holmium	165-1	37344929	36740136	36298010	36794359	1.43	cps
Holmium	165-2	24379995	24232752	24726827	24446525	1.04	cps
Indium	115-1	33001956	32336075	32082026	32473352	1.46	cps
Indium	115-2	10595433	10460674	10695042	10583716	1.11	cps
Iron	56-2	65914	66402	67071	66463	0.87	cps
Iron	57-2	2524	2617	2597	2579	1.91	cps
Iron	54-2	5765	5925	5898	5862	1.46	cps
Krypton	83-1	270	353	333	319	13.64	cps

Reviewed By:Mohan
On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4728-16	Instrumnet Name :	P7
Client Sample ID :	MBH9G9	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 10:49:04	DataFile Name :	027SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	1760	1700	1790	1750	2.62	cps
Lead	207-1	1410	1507	1437	1451	3.44	cps
Lead	208-1	6877	6987	6887	6917	0.88	cps
Lithium	6-1	3609796	3529138	3504290	3547741	1.55	cps
Magnesium	24-2	3230	3107	3087	3141	2.47	cps
Manganese	55-2	9196	9413	8913	9174	2.73	cps
Molybdenum	94-1	730	757	673	720	5.91	cps
Molybdenum	95-1	203	193	177	191	7.05	cps
Molybdenum	96-1	307	273	357	312	13.43	cps
Molybdenum	97-1	107	107	137	117	14.85	cps
Molybdenum	98-1	280	267	280	276	2.79	cps
Neodymium	150-1	33	27	23	28	18.33	cps
Neodymium	150-2	13	7	30	17	72.11	cps
Nickel	60-2	687	497	633	606	16.18	cps
Phosphorus	31-2	320	360	460	380	18.98	cps
Potassium	39-2	86889	86024	86919	86611	0.59	cps
Rhodium	103-1	32304326	30888235	30754035	31315532	2.74	cps
Rhodium	103-2	17539140	17295335	17282702	17372392	0.83	cps
Scandium	45-1	18612974	18145649	18145018	18301214	1.48	cps
Scandium	45-2	1436541	1436869	1455817	1443076	0.76	cps
Selenium	82-1	808	580	637	675	17.56	cps
Selenium	77-2	7	0	0	2	173.21	cps
Selenium	78-2	563	443	490	499	12.13	cps
Silicon	28-1	1343651	1342289	1345076	1343672	0.10	cps
Silver	107-1	427	367	343	379	11.35	cps
Silver	109-1	277	210	237	241	13.92	cps
Sodium	23-2	54934	55864	54342	55047	1.39	cps
Strontium	86-1	1087	1083	930	1033	8.66	cps
Strontium	88-1	4554	4611	4547	4571	0.76	cps
Sulfur	34-1	304324	306383	306873	305860	0.44	cps
Terbium	159-1	38487066	38227945	36929174	37881395	2.20	cps
Terbium	159-2	24779086	24209299	24193113	24393833	1.37	cps
Thallium	203-1	467	367	410	414	12.10	cps
Thallium	205-1	1050	1030	1093	1058	3.06	cps
Tin	118-1	4517	4451	4571	4513	1.33	cps
Titanium	47-1	487	507	383	459	14.43	cps

Reviewed By:Mohan
On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4728-16	Instrumnet Name :	P7
Client Sample ID :	MBH9G9	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 10:49:04	DataFile Name :	027SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	50	60	53	54	9.35	cps
Vanadium	51-2	80	97	103	93	12.88	cps
Yttrium	89-1	44674111	44062576	43484623	44073770	1.35	cps
Yttrium	89-2	10329290	10227842	10232994	10263375	0.56	cps
Zinc	66-2	2720	2580	2604	2635	2.85	cps
Zirconium	90-1	1790	1793	1717	1767	2.45	cps
Zirconium	91-1	413	390	467	423	9.28	cps

Reviewed By:Mohan
On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4750-22	Instrumnet Name :	P7
Client Sample ID :	MBH9H0	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 10:52:19	DataFile Name :	028SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	1645	1707	1565	1639	4.37	cps
Antimony	121-1	267	213	290	257	15.31	cps
Arsenic	75-2	13	20	17	17	20.01	cps
Barium	135-1	513	477	613	534	13.24	cps
Barium	137-1	887	937	980	934	5.00	cps
Beryllium	9-1	56	44	28	43	32.83	cps
Bismuth	209-1	21265931	20793040	20726213	20928395	1.41	cps
Bismuth	209-2	16945463	16781194	16664189	16796949	0.84	cps
Bromine	81-1	18135	17737	18338	18070	1.69	cps
Bromine	81-2	120	130	123	124	4.09	cps
Cadmium	108-1	20	40	27	29	35.25	cps
Cadmium	106-1	11395	11238	11061	11231	1.49	cps
Cadmium	111-1	8036	7882	7774	7897	1.66	cps
Calcium	43-1	3887	3884	3881	3884	0.09	cps
Calcium	44-1	79209	80036	79453	79566	0.53	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	4951	4964	5351	5089	4.47	cps
Cobalt	59-2	263	337	270	290	13.98	cps
Copper	63-2	3154	3034	3174	3120	2.43	cps
Dysprosium	156-1	40	63	47	50	24.03	cps
Dysprosium	156-2	30	33	27	30	11.10	cps
Erbium	164-1	160	200	187	182	11.18	cps
Erbium	164-2	113	123	150	129	14.70	cps
Gadolinium	160-1	177	183	160	173	6.94	cps
Gadolinium	160-2	1433	1253	1300	1329	7.03	cps
Holmium	165-1	36311985	35714875	35665941	35897601	1.00	cps
Holmium	165-2	24099996	24076588	23824231	24000272	0.64	cps
Indium	115-1	32041488	31452358	31227757	31573867	1.33	cps
Indium	115-2	10490026	10579917	10343103	10471015	1.14	cps
Iron	56-2	74222	76804	75483	75503	1.71	cps
Iron	57-2	2884	2880	3024	2929	2.79	cps
Iron	54-2	6959	6088	6515	6521	6.68	cps
Krypton	83-1	347	400	323	357	11.02	cps

Reviewed By:Mohan
On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4750-22	Instrumnet Name :	P7
Client Sample ID :	MBH9H0	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 10:52:19	DataFile Name :	028SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	2754	2817	2864	2811	1.96	cps
Lead	207-1	2527	2307	2377	2404	4.68	cps
Lead	208-1	11099	11049	10862	11003	1.13	cps
Lithium	6-1	3482699	3488240	3595640	3522193	1.81	cps
Magnesium	24-2	5628	5925	5741	5764	2.60	cps
Manganese	55-2	16426	16179	16496	16367	1.02	cps
Molybdenum	94-1	1497	1427	1423	1449	2.86	cps
Molybdenum	95-1	1547	1520	1610	1559	2.97	cps
Molybdenum	96-1	1810	1737	1880	1809	3.96	cps
Molybdenum	97-1	963	1117	910	997	10.77	cps
Molybdenum	98-1	2490	2574	2560	2541	1.76	cps
Neodymium	150-1	57	40	77	58	31.78	cps
Neodymium	150-2	23	53	23	33	51.97	cps
Nickel	60-2	587	630	630	616	4.06	cps
Phosphorus	31-2	357	383	400	380	5.75	cps
Potassium	39-2	102076	102274	100978	101776	0.69	cps
Rhodium	103-1	30630411	30190878	30020477	30280589	1.04	cps
Rhodium	103-2	17219259	17254735	17014579	17162858	0.76	cps
Scandium	45-1	18185911	17805263	17821996	17937723	1.20	cps
Scandium	45-2	1435504	1420632	1394221	1416786	1.48	cps
Selenium	82-1	646	507	589	581	11.99	cps
Selenium	77-2	0	0	0	0	0.00	cps
Selenium	78-2	623	440	580	548	17.49	cps
Silicon	28-1	1462554	1348441	1342907	1384634	4.88	cps
Silver	107-1	263	267	253	261	2.66	cps
Silver	109-1	173	203	223	200	12.58	cps
Sodium	23-2	134410	134811	134279	134500	0.21	cps
Strontium	86-1	1157	1027	1070	1084	6.10	cps
Strontium	88-1	4784	4861	4891	4845	1.14	cps
Sulfur	34-1	310702	306435	311232	309456	0.85	cps
Terbium	159-1	37084726	36494265	36262084	36613692	1.16	cps
Terbium	159-2	24238929	23963170	23601731	23934610	1.34	cps
Thallium	203-1	363	393	287	348	15.82	cps
Thallium	205-1	797	873	803	824	5.15	cps
Tin	118-1	5384	5371	5258	5338	1.30	cps
Titanium	47-1	550	690	577	606	12.28	cps

Reviewed By:Mohan
On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4750-22	Instrumnet Name :	P7
Client Sample ID :	MBH9H0	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 10:52:19	DataFile Name :	028SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	67	40	23	43	50.45	cps
Vanadium	51-2	197	137	160	164	18.39	cps
Yttrium	89-1	43138613	42541111	42585909	42755211	0.78	cps
Yttrium	89-2	10233303	10250241	10007227	10163590	1.33	cps
Zinc	66-2	3494	3647	3587	3576	2.16	cps
Zirconium	90-1	1900	1810	1747	1819	4.24	cps
Zirconium	91-1	323	383	360	356	8.51	cps

Reviewed By:Mohan
On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4806-04A	Instrumnet Name :	P7
Client Sample ID :	MH2GT9A	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 10:55:35	DataFile Name :	029SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	3022813	3067763	3065108	3051895	0.83	cps
Antimony	121-1	149440	148692	149633	149255	0.33	cps
Arsenic	75-2	13696	13646	13276	13540	1.70	cps
Barium	135-1	1761504	1776558	1729793	1755952	1.36	cps
Barium	137-1	3001267	3024611	3025182	3017020	0.45	cps
Beryllium	9-1	939	928	1056	974	7.27	cps
Bismuth	209-1	20024682	20082061	20069886	20058876	0.15	cps
Bismuth	209-2	15967861	15858349	15991670	15939293	0.45	cps
Bromine	81-1	30652	31016	31901	31190	2.06	cps
Bromine	81-2	2790	2754	2830	2791	1.37	cps
Cadmium	108-1	6905	7095	6915	6972	1.53	cps
Cadmium	106-1	20832	20778	20268	20626	1.51	cps
Cadmium	111-1	99853	100022	100807	100227	0.51	cps
Calcium	43-1	6025081	5971157	5897228	5964489	1.08	cps
Calcium	44-1	96172275	95496695	95982799	95883923	0.36	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	230587	230282	228516	229795	0.49	cps
Cobalt	59-2	71630	72092	72042	71921	0.35	cps
Copper	63-2	61273941	61399407	61208754	61294034	0.16	cps
Dysprosium	156-1	81276	81588	81059	81308	0.33	cps
Dysprosium	156-2	68951	67548	68918	68472	1.17	cps
Erbium	164-1	62485	63128	61819	62478	1.05	cps
Erbium	164-2	42444	41742	41976	42054	0.85	cps
Gadolinium	160-1	72375	72214	72496	72362	0.20	cps
Gadolinium	160-2	53003	52993	52484	52827	0.56	cps
Holmium	165-1	34644050	34568026	34637891	34616656	0.12	cps
Holmium	165-2	23339420	23566309	23825032	23576920	1.03	cps
Indium	115-1	29890679	30160723	29687410	29912937	0.79	cps
Indium	115-2	9766757	9968399	9833392	9856183	1.04	cps
Iron	56-2	84368585	83771952	84103060	84081199	0.36	cps
Iron	57-2	2185141	2173947	2208817	2189302	0.81	cps
Iron	54-2	4543895	4595543	4576572	4572003	0.57	cps
Krypton	83-1	410	413	413	412	0.47	cps

Reviewed By:Mohan
On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4806-04A	Instrumnet Name :	P7
Client Sample ID :	MH2GT9A	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 10:55:35	DataFile Name :	029SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	22750021	22668011	22878239	22765424	0.47	cps
Lead	207-1	19449936	19515293	19485658	19483629	0.17	cps
Lead	208-1	89479975	89592748	89552102	89541609	0.06	cps
Lithium	6-1	3354716	3338363	3326307	3339796	0.43	cps
Magnesium	24-2	5876697	5845518	5892026	5871413	0.40	cps
Manganese	55-2	6788274	6938184	6928650	6885036	1.22	cps
Molybdenum	94-1	136156	134541	134770	135155	0.65	cps
Molybdenum	95-1	98921	98140	97898	98320	0.54	cps
Molybdenum	96-1	119678	120041	117366	119028	1.22	cps
Molybdenum	97-1	61562	60789	61441	61264	0.68	cps
Molybdenum	98-1	157168	157513	157735	157472	0.18	cps
Neodymium	150-1	139697	139488	141124	140103	0.64	cps
Neodymium	150-2	79831	80072	79985	79963	0.15	cps
Nickel	60-2	132936	132745	132838	132840	0.07	cps
Phosphorus	31-2	46835	46908	46661	46801	0.27	cps
Potassium	39-2	3943553	3917680	3945875	3935703	0.40	cps
Rhodium	103-1	27888778	27902145	27922290	27904404	0.06	cps
Rhodium	103-2	16181525	16241810	15985881	16136405	0.83	cps
Scandium	45-1	17118325	16821466	16684017	16874603	1.32	cps
Scandium	45-2	1343532	1344842	1316408	1334927	1.20	cps
Selenium	82-1	2748	2662	2626	2679	2.34	cps
Selenium	77-2	460	460	450	457	1.26	cps
Selenium	78-2	1307	1423	1327	1352	4.61	cps
Silicon	28-1	65952697	66237116	66010131	66066648	0.23	cps
Silver	107-1	81768	83401	83548	82906	1.19	cps
Silver	109-1	79771	78886	79530	79396	0.58	cps
Sodium	23-2	34136328	34461734	34345324	34314462	0.48	cps
Strontium	86-1	4726054	4680879	4629497	4678810	1.03	cps
Strontium	88-1	40939651	41161135	40667699	40922829	0.60	cps
Sulfur	34-1	3850695	3845832	3799240	3831922	0.74	cps
Terbium	159-1	35900648	35683585	35573176	35719136	0.47	cps
Terbium	159-2	23522492	23231561	23358570	23370874	0.62	cps
Thallium	203-1	3937	3871	3997	3935	1.61	cps
Thallium	205-1	9300	9420	9343	9354	0.65	cps
Tin	118-1	950057	943539	939983	944526	0.54	cps
Titanium	47-1	494312	488132	491681	491375	0.63	cps

Reviewed By:Mohan
On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4806-04A	Instrumnet Name :	P7
Client Sample ID :	MH2GT9A	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 10:55:35	DataFile Name :	029SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	169441	170129	171370	170313	0.57	cps
Vanadium	51-2	276674	276932	276422	276676	0.09	cps
Yttrium	89-1	41557316	41690195	41114019	41453844	0.73	cps
Yttrium	89-2	9822134	9724779	9817374	9788096	0.56	cps
Zinc	66-2	8015584	8219142	8204846	8146524	1.39	cps
Zirconium	90-1	219198	217561	219466	218741	0.47	cps
Zirconium	91-1	48302	47209	47958	47823	1.17	cps

Reviewed By:Mohan
On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4831-01	Instrumnet Name :	P7
Client Sample ID :	E29S4	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 10:58:29	DataFile Name :	030SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	3840	3913	4152	3968	4.11	cps
Antimony	121-1	5204	5408	5568	5393	3.38	cps
Arsenic	75-2	3701	3811	3657	3723	2.12	cps
Barium	135-1	407649	411236	411439	410108	0.52	cps
Barium	137-1	701862	709147	716293	709101	1.02	cps
Beryllium	9-1	61	61	56	59	5.41	cps
Bismuth	209-1	19004124	18902228	19175240	19027197	0.73	cps
Bismuth	209-2	15364916	15360068	15490663	15405216	0.48	cps
Bromine	81-1	50265	60932	68119	59772	15.03	cps
Bromine	81-2	9950	10594	10767	10437	4.13	cps
Cadmium	108-1	70	53	67	63	13.93	cps
Cadmium	106-1	10831	10290	10074	10398	3.75	cps
Cadmium	111-1	7826	7426	7288	7513	3.72	cps
Calcium	43-1	6669062	6727213	6866305	6754193	1.50	cps
Calcium	44-1	106364405	108096642	109566605	108009217	1.48	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	8536	8222	8446	8401	1.92	cps
Cobalt	59-2	2184	2147	2357	2229	5.03	cps
Copper	63-2	12519	12275	11675	12156	3.57	cps
Dysprosium	156-1	137	117	77	110	27.77	cps
Dysprosium	156-2	83	107	73	88	19.49	cps
Erbium	164-1	210	203	233	216	7.31	cps
Erbium	164-2	160	170	110	147	21.92	cps
Gadolinium	160-1	267	233	187	229	17.56	cps
Gadolinium	160-2	1280	1290	1233	1268	2.39	cps
Holmium	165-1	33645700	33419131	33702605	33589145	0.45	cps
Holmium	165-2	23442935	23148125	23099476	23230179	0.80	cps
Indium	115-1	28762757	29003235	28906009	28890667	0.42	cps
Indium	115-2	9878607	9839305	9750570	9822827	0.67	cps
Iron	56-2	111205	109102	108461	109589	1.31	cps
Iron	57-2	109502	111822	112363	111229	1.37	cps
Iron	54-2	8933	9079	8573	8862	2.94	cps
Krypton	83-1	337	307	350	331	6.70	cps

Reviewed By:Mohan
On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4831-01	Instrumnet Name :	P7
Client Sample ID :	E29S4	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 10:58:29	DataFile Name :	030SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	6438	5164	4457	5353	18.75	cps
Lead	207-1	5374	4214	3584	4391	20.69	cps
Lead	208-1	24989	19869	16671	20510	20.46	cps
Lithium	6-1	3168271	3157145	3228994	3184803	1.21	cps
Magnesium	24-2	29487757	29161601	29470775	29373378	0.63	cps
Manganese	55-2	27058	26954	27141	27051	0.35	cps
Molybdenum	94-1	39426	40706	40386	40173	1.66	cps
Molybdenum	95-1	68567	69785	70777	69709	1.59	cps
Molybdenum	96-1	73667	75031	75122	74607	1.09	cps
Molybdenum	97-1	42752	42943	43795	43164	1.29	cps
Molybdenum	98-1	111371	111716	113291	112126	0.91	cps
Neodymium	150-1	130	137	103	123	14.30	cps
Neodymium	150-2	77	77	43	66	29.36	cps
Nickel	60-2	3254	3237	3400	3297	2.73	cps
Phosphorus	31-2	21051	21542	21519	21371	1.30	cps
Potassium	39-2	6011253	5901442	6002062	5971586	1.02	cps
Rhodium	103-1	26706927	26580481	27219593	26835667	1.26	cps
Rhodium	103-2	15740269	15901700	15560854	15734274	1.08	cps
Scandium	45-1	15979113	16328846	16288206	16198721	1.18	cps
Scandium	45-2	1343519	1334484	1351146	1343049	0.62	cps
Selenium	82-1	1430	1550	1333	1438	7.58	cps
Selenium	77-2	100	77	83	87	13.87	cps
Selenium	78-2	843	827	820	830	1.45	cps
Silicon	28-1	73948299	75509969	75631451	75029906	1.25	cps
Silver	107-1	417	407	397	407	2.46	cps
Silver	109-1	303	297	237	279	13.17	cps
Sodium	23-2	115033758	117290038	117932702	116752166	1.30	cps
Strontium	86-1	1728622	1725961	1743582	1732721	0.55	cps
Strontium	88-1	14783690	15005824	15237873	15009129	1.51	cps
Sulfur	34-1	1579049	1574185	1578210	1577148	0.16	cps
Terbium	159-1	34563159	34304920	34902949	34590343	0.87	cps
Terbium	159-2	22690934	22954413	22977396	22874248	0.70	cps
Thallium	203-1	1470	1417	1357	1415	4.01	cps
Thallium	205-1	3637	3360	3194	3397	6.59	cps
Tin	118-1	6525	6965	6652	6714	3.38	cps
Titanium	47-1	1997	1970	1920	1962	1.98	cps

Reviewed By:Mohan
On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4831-01	Instrumnet Name :	P7
Client Sample ID :	E29S4	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 10:58:29	DataFile Name :	030SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	49916	51101	51241	50753	1.43	cps
Vanadium	51-2	6311	5968	6285	6188	3.09	cps
Yttrium	89-1	39137809	38806809	39217524	39054048	0.56	cps
Yttrium	89-2	9631368	9603557	9549027	9594651	0.44	cps
Zinc	66-2	10053	9627	10117	9932	2.68	cps
Zirconium	90-1	3357	3737	3567	3554	5.36	cps
Zirconium	91-1	747	800	730	759	4.82	cps

Reviewed By:Mohan
On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4831-02	Instrumnet Name :	P7
Client Sample ID :	E29S4D	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 11:01:41	DataFile Name :	031SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	4066	4413	4171	4217	4.21	cps
Antimony	121-1	5624	5644	5771	5680	1.40	cps
Arsenic	75-2	3727	3764	3654	3715	1.51	cps
Barium	135-1	421694	426477	423392	423854	0.57	cps
Barium	137-1	733776	729583	738098	733819	0.58	cps
Beryllium	9-1	78	89	44	70	32.86	cps
Bismuth	209-1	18576562	18880355	18801144	18752687	0.84	cps
Bismuth	209-2	14640701	15223791	15556179	15140223	3.06	cps
Bromine	81-1	55300	64316	69911	63176	11.67	cps
Bromine	81-2	10004	9993	10027	10008	0.17	cps
Cadmium	108-1	80	70	50	67	22.91	cps
Cadmium	106-1	10587	10280	10154	10340	2.16	cps
Cadmium	111-1	7562	7377	7343	7427	1.59	cps
Calcium	43-1	7095766	7010719	7015758	7040748	0.68	cps
Calcium	44-1	113205788	112720962	113499945	113142232	0.35	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	10270	10214	10504	10329	1.49	cps
Cobalt	59-2	2220	2277	2390	2296	3.77	cps
Copper	63-2	12058	12262	12158	12159	0.84	cps
Dysprosium	156-1	90	170	140	133	30.31	cps
Dysprosium	156-2	80	97	87	88	9.56	cps
Erbium	164-1	220	237	197	218	9.23	cps
Erbium	164-2	117	93	147	119	22.49	cps
Gadolinium	160-1	213	210	237	220	6.60	cps
Gadolinium	160-2	1200	1283	1227	1237	3.44	cps
Holmium	165-1	32762168	34354233	33534562	33550321	2.37	cps
Holmium	165-2	22201761	22702470	22994515	22632915	1.77	cps
Indium	115-1	28832436	29517321	28938974	29096244	1.27	cps
Indium	115-2	9404416	9621710	9690804	9572310	1.56	cps
Iron	56-2	111380	127658	109092	116043	8.72	cps
Iron	57-2	112585	113176	112961	112907	0.26	cps
Iron	54-2	8963	8969	8549	8827	2.73	cps
Krypton	83-1	380	313	390	361	11.54	cps

Reviewed By:Mohan
On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4831-02	Instrumnet Name :	P7
Client Sample ID :	E29S4D	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 11:01:41	DataFile Name :	031SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	3460	3457	3264	3394	3.32	cps
Lead	207-1	2784	2950	2944	2893	3.26	cps
Lead	208-1	13229	13503	13356	13363	1.02	cps
Lithium	6-1	3184710	3143195	3129051	3152319	0.92	cps
Magnesium	24-2	30329425	29851797	29597170	29926131	1.24	cps
Manganese	55-2	356817	353970	352577	354455	0.61	cps
Molybdenum	94-1	41475	41980	42769	42075	1.55	cps
Molybdenum	95-1	71812	73751	72441	72668	1.36	cps
Molybdenum	96-1	76291	77615	78231	77379	1.28	cps
Molybdenum	97-1	45343	45079	44829	45084	0.57	cps
Molybdenum	98-1	116856	117089	116503	116816	0.25	cps
Neodymium	150-1	150	127	143	140	8.58	cps
Neodymium	150-2	83	73	63	73	13.64	cps
Nickel	60-2	3817	3624	3797	3746	2.84	cps
Phosphorus	31-2	21999	21963	21872	21945	0.30	cps
Potassium	39-2	6217663	6093936	6076552	6129384	1.26	cps
Rhodium	103-1	27083795	27089200	27054424	27075806	0.07	cps
Rhodium	103-2	15313188	15378736	15549870	15413931	0.79	cps
Scandium	45-1	16105982	16699727	16735603	16513771	2.14	cps
Scandium	45-2	1309852	1312019	1361999	1327957	2.22	cps
Selenium	82-1	1523	1509	1539	1523	0.97	cps
Selenium	77-2	87	107	83	92	13.69	cps
Selenium	78-2	830	950	843	874	7.52	cps
Silicon	28-1	78323781	78375426	78034477	78244561	0.23	cps
Silver	107-1	310	290	283	294	4.71	cps
Silver	109-1	197	220	137	184	23.31	cps
Sodium	23-2	120369358	119549855	121346022	120421745	0.75	cps
Strontium	86-1	1782643	1815054	1779560	1792419	1.10	cps
Strontium	88-1	15674493	15724516	15563560	15654189	0.53	cps
Sulfur	34-1	1668940	1648516	1662208	1659888	0.63	cps
Terbium	159-1	34358138	34825231	34503227	34562199	0.69	cps
Terbium	159-2	21987979	22533940	22937533	22486484	2.12	cps
Thallium	203-1	1310	1350	1303	1321	1.91	cps
Thallium	205-1	3167	3194	2997	3119	3.42	cps
Tin	118-1	10217	10324	10774	10438	2.83	cps
Titanium	47-1	2144	2023	1923	2030	5.43	cps

Reviewed By:Mohan
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Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4831-02	Instrumnet Name :	P7
Client Sample ID :	E29S4D	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 11:01:41	DataFile Name :	031SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	51171	50144	51439	50918	1.34	cps
Vanadium	51-2	6135	6128	6128	6130	0.06	cps
Yttrium	89-1	38826160	40024803	39407856	39419606	1.52	cps
Yttrium	89-2	9183226	9453122	9679915	9438755	2.63	cps
Zinc	66-2	11071	10844	10347	10754	3.44	cps
Zirconium	90-1	3430	3731	3270	3477	6.72	cps
Zirconium	91-1	737	623	853	738	15.59	cps

Reviewed By:Mohan
On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4831-01LX5	Instrumnet Name :	P7
Client Sample ID :	E29S4L	Dilution Factor :	5
Date & Time Acquired :	2024-11-20 11:04:50	DataFile Name :	032SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	1299	1329	1319	1316	1.17	cps
Antimony	121-1	997	1080	1037	1038	4.02	cps
Arsenic	75-2	653	680	743	692	6.68	cps
Barium	135-1	75556	78193	78414	77388	2.06	cps
Barium	137-1	132995	137214	136188	135466	1.62	cps
Beryllium	9-1	100	50	56	69	39.99	cps
Bismuth	209-1	18880063	19312558	19721493	19304705	2.18	cps
Bismuth	209-2	15854769	15970941	15870440	15898717	0.40	cps
Bromine	81-1	29974	30291	30431	30232	0.78	cps
Bromine	81-2	2460	2487	2524	2490	1.28	cps
Cadmium	108-1	27	57	53	46	36.09	cps
Cadmium	106-1	10627	10424	10047	10366	2.84	cps
Cadmium	111-1	7470	7354	7045	7290	3.01	cps
Calcium	43-1	1257241	1287328	1297791	1280786	1.64	cps
Calcium	44-1	19948898	20678964	20738373	20455412	2.15	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	7145	7535	7208	7296	2.87	cps
Cobalt	59-2	573	527	597	566	6.30	cps
Copper	63-2	4367	4387	4311	4355	0.91	cps
Dysprosium	156-1	43	60	67	57	21.21	cps
Dysprosium	156-2	23	37	40	33	26.47	cps
Erbium	164-1	153	180	153	162	9.49	cps
Erbium	164-2	97	107	77	93	16.37	cps
Gadolinium	160-1	187	200	157	181	12.25	cps
Gadolinium	160-2	1293	1220	1183	1232	4.55	cps
Holmium	165-1	33239259	33457167	33739758	33478728	0.75	cps
Holmium	165-2	23244698	23336639	23199423	23260253	0.30	cps
Indium	115-1	28837459	29412064	28728151	28992558	1.27	cps
Indium	115-2	10010086	9887384	9935189	9944220	0.62	cps
Iron	56-2	56456	55756	55935	56049	0.65	cps
Iron	57-2	21676	21679	22253	21869	1.52	cps
Iron	54-2	5961	6255	5928	6048	2.97	cps
Krypton	83-1	340	303	353	332	7.79	cps

Reviewed By:Mohan
On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4831-01LX5	Instrumnet Name :	P7
Client Sample ID :	E29S4L	Dilution Factor :	5
Date & Time Acquired :	2024-11-20 11:04:50	DataFile Name :	032SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	2677	2897	2634	2736	5.16	cps
Lead	207-1	2340	2264	2250	2285	2.13	cps
Lead	208-1	10612	11012	10455	10693	2.69	cps
Lithium	6-1	3170792	3287088	3271525	3243135	1.95	cps
Magnesium	24-2	5465890	5528599	5487985	5494158	0.58	cps
Manganese	55-2	17380	17801	17567	17583	1.20	cps
Molybdenum	94-1	8116	8376	8609	8367	2.95	cps
Molybdenum	95-1	12682	13206	13176	13021	2.26	cps
Molybdenum	96-1	13887	14411	14594	14297	2.57	cps
Molybdenum	97-1	7846	8102	8516	8155	4.15	cps
Molybdenum	98-1	20625	21596	21483	21234	2.50	cps
Neodymium	150-1	33	77	57	56	39.04	cps
Neodymium	150-2	17	17	17	17	0.00	cps
Nickel	60-2	1200	1183	1180	1188	0.90	cps
Phosphorus	31-2	4261	4314	4551	4375	3.53	cps
Potassium	39-2	1201791	1202873	1209086	1204583	0.33	cps
Rhodium	103-1	27399080	27643813	27883915	27642269	0.88	cps
Rhodium	103-2	16274794	16254618	16070553	16199988	0.69	cps
Scandium	45-1	16104384	16309493	16197255	16203711	0.63	cps
Scandium	45-2	1345099	1368776	1345268	1353048	1.01	cps
Selenium	82-1	743	672	634	683	8.06	cps
Selenium	77-2	30	13	17	20	44.10	cps
Selenium	78-2	497	577	600	558	9.72	cps
Silicon	28-1	15053614	15627370	15428270	15369752	1.90	cps
Silver	107-1	250	197	270	239	15.87	cps
Silver	109-1	133	100	137	123	16.44	cps
Sodium	23-2	22275850	22191722	22213042	22226871	0.20	cps
Strontium	86-1	310379	322648	323118	318715	2.27	cps
Strontium	88-1	2790018	2909724	2912241	2870661	2.43	cps
Sulfur	34-1	495019	505356	504583	501653	1.15	cps
Terbium	159-1	33994351	34405244	34522978	34307524	0.81	cps
Terbium	159-2	22914925	23103708	22776726	22931786	0.72	cps
Thallium	203-1	547	627	607	593	7.02	cps
Thallium	205-1	1307	1550	1517	1458	9.05	cps
Tin	118-1	8387	8029	8283	8233	2.23	cps
Titanium	47-1	583	563	673	607	9.66	cps

Reviewed By:Mohan
On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4831-01LX5	Instrumnet Name :	P7
Client Sample ID :	E29S4L	Dilution Factor :	5
Date & Time Acquired :	2024-11-20 11:04:50	DataFile Name :	032SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	9170	9400	9327	9299	1.26	cps
Vanadium	51-2	1170	1157	1247	1191	4.08	cps
Yttrium	89-1	38201384	39591280	40060274	39284313	2.46	cps
Yttrium	89-2	9724094	9619435	9722855	9688795	0.62	cps
Zinc	66-2	13900	13670	14050	13873	1.38	cps
Zirconium	90-1	2237	2407	2390	2345	4.00	cps
Zirconium	91-1	453	483	517	484	6.54	cps

Reviewed By:Mohan
On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4831-04	Instrumnet Name :	P7
Client Sample ID :	E29T2	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 11:10:53	DataFile Name :	034SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	19267	19531	20052	19617	2.04	cps
Antimony	121-1	3044	2737	2637	2806	7.55	cps
Arsenic	75-2	480	580	590	550	11.06	cps
Barium	135-1	746007	754062	758370	752813	0.83	cps
Barium	137-1	1294570	1310237	1310033	1304947	0.69	cps
Beryllium	9-1	106	83	106	98	13.08	cps
Bismuth	209-1	20479736	20406603	20354698	20413679	0.31	cps
Bismuth	209-2	16003658	16184743	15987195	16058532	0.68	cps
Bromine	81-1	75879	95362	106020	92420	16.54	cps
Bromine	81-2	17090	17604	17390	17361	1.49	cps
Cadmium	108-1	47	50	63	53	16.53	cps
Cadmium	106-1	11385	11141	10981	11169	1.82	cps
Cadmium	111-1	8303	8080	7919	8101	2.38	cps
Calcium	43-1	6691782	6856161	6859795	6802579	1.41	cps
Calcium	44-1	108969052	110167705	110054028	109730262	0.60	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	7642	7298	7549	7496	2.37	cps
Cobalt	59-2	34473	34861	34921	34751	0.70	cps
Copper	63-2	11558	11628	11858	11681	1.34	cps
Dysprosium	156-1	547	543	660	583	11.39	cps
Dysprosium	156-2	487	467	490	481	2.62	cps
Erbium	164-1	657	707	1064	809	27.44	cps
Erbium	164-2	530	463	513	502	6.91	cps
Gadolinium	160-1	733	743	813	763	5.71	cps
Gadolinium	160-2	1707	1677	1677	1687	1.03	cps
Holmium	165-1	35679474	35540521	35660869	35626954	0.21	cps
Holmium	165-2	23938515	23920939	24072890	23977448	0.35	cps
Indium	115-1	30589344	30301470	30586722	30492512	0.54	cps
Indium	115-2	10051414	9984362	10027867	10021214	0.34	cps
Iron	56-2	1241393	1239243	1226605	1235747	0.65	cps
Iron	57-2	134143	136178	136770	135697	1.02	cps
Iron	54-2	71465	71532	69952	70983	1.26	cps
Krypton	83-1	330	363	413	369	11.37	cps

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4831-04	Instrumnet Name :	P7
Client Sample ID :	E29T2	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 11:10:53	DataFile Name :	034SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	6208	5875	5818	5967	3.53	cps
Lead	207-1	4988	5061	4874	4974	1.89	cps
Lead	208-1	23555	23074	22734	23121	1.78	cps
Lithium	6-1	3279188	3361588	3291005	3310594	1.35	cps
Magnesium	24-2	28609536	28086296	28170814	28288882	0.99	cps
Manganese	55-2	5796941	5843991	5763882	5801605	0.69	cps
Molybdenum	94-1	32927	33548	32840	33105	1.17	cps
Molybdenum	95-1	55314	56582	55812	55903	1.14	cps
Molybdenum	96-1	58095	60511	59591	59399	2.05	cps
Molybdenum	97-1	33976	35349	35092	34806	2.10	cps
Molybdenum	98-1	88409	89673	90964	89682	1.42	cps
Neodymium	150-1	803	837	883	841	4.78	cps
Neodymium	150-2	457	457	520	478	7.65	cps
Nickel	60-2	14053	14304	14364	14240	1.16	cps
Phosphorus	31-2	707	760	673	713	6.13	cps
Potassium	39-2	7396855	7498029	7446376	7447087	0.68	cps
Rhodium	103-1	28302540	28196691	28522486	28340573	0.59	cps
Rhodium	103-2	16260899	16171156	16047745	16159933	0.66	cps
Scandium	45-1	17007839	17009702	16960751	16992764	0.16	cps
Scandium	45-2	1378087	1348656	1370740	1365828	1.12	cps
Selenium	82-1	781	906	660	782	15.75	cps
Selenium	77-2	20	17	7	14	48.02	cps
Selenium	78-2	450	523	583	519	12.87	cps
Silicon	28-1	72771366	73925736	73255917	73317673	0.79	cps
Silver	107-1	1197	967	883	1016	15.98	cps
Silver	109-1	1037	863	787	896	14.30	cps
Sodium	23-2	71479256	70783307	70332736	70865100	0.82	cps
Strontium	86-1	1119858	1140090	1137930	1132626	0.98	cps
Strontium	88-1	10046900	10226929	10190779	10154869	0.94	cps
Sulfur	34-1	1599995	1620007	1617092	1612365	0.67	cps
Terbium	159-1	36581463	36104717	36608260	36431480	0.78	cps
Terbium	159-2	23567706	23500410	23916077	23661398	0.94	cps
Thallium	203-1	2854	2714	2674	2747	3.44	cps
Thallium	205-1	6548	6378	6051	6326	3.99	cps
Tin	118-1	8429	8229	8292	8317	1.23	cps
Titanium	47-1	3747	4101	3700	3849	5.68	cps

Reviewed By:Mohan
On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4831-04	Instrumnet Name :	P7
Client Sample ID :	E29T2	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 11:10:53	DataFile Name :	034SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	59629	60139	60102	59957	0.47	cps
Vanadium	51-2	1830	1780	1640	1750	5.63	cps
Yttrium	89-1	41030324	41555589	41040004	41208639	0.73	cps
Yttrium	89-2	9891320	9965820	9777695	9878278	0.96	cps
Zinc	66-2	11374	10714	11428	11172	3.56	cps
Zirconium	90-1	4414	4274	4501	4396	2.60	cps
Zirconium	91-1	900	1020	1047	989	7.90	cps

Reviewed By:Mohan
On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4831-05	Instrumnet Name :	P7
Client Sample ID :	E29T4	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 11:14:04	DataFile Name :	035SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	3312	3333	3213	3286	1.96	cps
Antimony	121-1	593	567	723	628	13.35	cps
Arsenic	75-2	3690	4094	3731	3838	5.79	cps
Barium	135-1	682408	687049	684681	684713	0.34	cps
Barium	137-1	1187228	1193283	1197941	1192817	0.45	cps
Beryllium	9-1	83	83	106	91	14.14	cps
Bismuth	209-1	19813107	20083705	20002558	19966457	0.70	cps
Bismuth	209-2	15804612	15929255	15888984	15874283	0.40	cps
Bromine	81-1	85091	101851	109928	98957	12.80	cps
Bromine	81-2	17023	17457	17707	17396	1.99	cps
Cadmium	108-1	37	50	33	40	22.05	cps
Cadmium	106-1	11311	10884	10998	11064	2.00	cps
Cadmium	111-1	7979	7694	7735	7803	1.97	cps
Calcium	43-1	8593195	8788548	8761478	8714407	1.21	cps
Calcium	44-1	138017925	139844118	140203578	139355207	0.84	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	6461	6365	6241	6356	1.74	cps
Cobalt	59-2	5184	5034	5131	5116	1.49	cps
Copper	63-2	4734	4914	4898	4849	2.05	cps
Dysprosium	156-1	110	100	170	127	29.89	cps
Dysprosium	156-2	150	103	123	126	18.65	cps
Erbium	164-1	227	227	217	223	2.59	cps
Erbium	164-2	137	193	127	152	23.62	cps
Gadolinium	160-1	207	280	310	266	20.02	cps
Gadolinium	160-2	1307	1310	1313	1310	0.25	cps
Holmium	165-1	34420362	35621542	35254426	35098777	1.75	cps
Holmium	165-2	23977880	23662177	23793310	23811122	0.67	cps
Indium	115-1	30037039	29724207	30010580	29923942	0.58	cps
Indium	115-2	10032735	9881084	9816568	9910129	1.12	cps
Iron	56-2	16794395	16990148	16812090	16865544	0.64	cps
Iron	57-2	547307	554501	555041	552283	0.78	cps
Iron	54-2	927689	924204	923761	925218	0.23	cps
Krypton	83-1	280	313	333	309	8.72	cps

Reviewed By:Mohan
On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4831-05	Instrumnet Name :	P7
Client Sample ID :	E29T4	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 11:14:04	DataFile Name :	035SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	6905	6588	6465	6653	3.41	cps
Lead	207-1	5891	5581	5421	5631	4.25	cps
Lead	208-1	26270	25800	25863	25978	0.98	cps
Lithium	6-1	3369889	3398589	3336632	3368370	0.92	cps
Magnesium	24-2	48464486	49079869	48438151	48660835	0.75	cps
Manganese	55-2	812649	803103	807956	807903	0.59	cps
Molybdenum	94-1	30038	29663	30078	29926	0.76	cps
Molybdenum	95-1	43775	44889	44681	44448	1.33	cps
Molybdenum	96-1	49146	49908	49045	49366	0.96	cps
Molybdenum	97-1	27833	28067	27533	27811	0.96	cps
Molybdenum	98-1	71082	71966	72170	71739	0.81	cps
Neodymium	150-1	120	137	117	124	8.61	cps
Neodymium	150-2	77	90	100	89	13.17	cps
Nickel	60-2	14170	14324	14474	14322	1.06	cps
Phosphorus	31-2	560	597	527	561	6.24	cps
Potassium	39-2	2951713	2979665	2955020	2962133	0.52	cps
Rhodium	103-1	27862161	27825353	27786665	27824727	0.14	cps
Rhodium	103-2	15977933	15969968	15882979	15943627	0.33	cps
Scandium	45-1	16815048	17002401	16789318	16868923	0.69	cps
Scandium	45-2	1352893	1343213	1363297	1353134	0.74	cps
Selenium	82-1	681	732	625	679	7.93	cps
Selenium	77-2	3	0	0	1	173.21	cps
Selenium	78-2	437	473	503	471	7.09	cps
Silicon	28-1	95584309	95902279	94420072	95302220	0.82	cps
Silver	107-1	463	480	380	441	12.15	cps
Silver	109-1	317	320	323	320	1.04	cps
Sodium	23-2	90551529	92286485	91621289	91486434	0.96	cps
Strontium	86-1	1086656	1097231	1087879	1090588	0.53	cps
Strontium	88-1	9744748	9828019	9850011	9807593	0.57	cps
Sulfur	34-1	2563817	2615016	2552159	2576997	1.30	cps
Terbium	159-1	36219742	35987040	36692831	36299871	0.99	cps
Terbium	159-2	23428625	23515037	23303890	23415851	0.45	cps
Thallium	203-1	937	970	867	924	5.71	cps
Thallium	205-1	2150	1997	2207	2118	5.13	cps
Tin	118-1	10077	10074	10377	10176	1.71	cps
Titanium	47-1	1520	1563	1450	1511	3.78	cps

Reviewed By:Mohan
On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4831-05	Instrumnet Name :	P7
Client Sample ID :	E29T4	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 11:14:04	DataFile Name :	035SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	88850	87978	87700	88176	0.68	cps
Vanadium	51-2	367	313	297	326	11.23	cps
Yttrium	89-1	40509214	41109259	40642286	40753586	0.77	cps
Yttrium	89-2	9723849	9734511	9801170	9753177	0.43	cps
Zinc	66-2	9767	10043	9993	9934	1.49	cps
Zirconium	90-1	13139	12799	13053	12997	1.36	cps
Zirconium	91-1	2890	2914	3040	2948	2.74	cps

Reviewed By:Mohan
On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4831-06	Instrumnet Name :	P7
Client Sample ID :	E29W0	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 11:17:12	DataFile Name :	036SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	915	1082	1042	1013	8.60	cps
Antimony	121-1	170	373	193	246	45.32	cps
Arsenic	75-2	17	13	7	12	41.65	cps
Barium	135-1	477	1778	363	873	90.09	cps
Barium	137-1	920	1698	643	1087	50.29	cps
Beryllium	9-1	61	67	33	54	33.26	cps
Bismuth	209-1	21118414	20550518	20545002	20737978	1.59	cps
Bismuth	209-2	16698924	16525436	15726629	16316996	3.18	cps
Bromine	81-1	30161	27810	24577	27516	10.19	cps
Bromine	81-2	1123	1077	927	1042	9.86	cps
Cadmium	108-1	33	30	37	33	10.01	cps
Cadmium	106-1	11682	10911	10581	11058	5.11	cps
Cadmium	111-1	8214	7750	7424	7796	5.09	cps
Calcium	43-1	7955	7482	6625	7354	9.17	cps
Calcium	44-1	144568	138022	129423	137338	5.53	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	5431	5501	5238	5390	2.53	cps
Cobalt	59-2	227	220	213	220	3.03	cps
Copper	63-2	4104	3834	3687	3875	5.46	cps
Dysprosium	156-1	60	43	33	46	29.58	cps
Dysprosium	156-2	30	20	7	19	61.96	cps
Erbium	164-1	137	150	180	156	14.27	cps
Erbium	164-2	83	100	93	92	9.10	cps
Gadolinium	160-1	123	173	160	152	17.01	cps
Gadolinium	160-2	1193	1233	1240	1222	2.07	cps
Holmium	165-1	35170434	34951760	34656074	34926090	0.74	cps
Holmium	165-2	23809630	23714276	22578521	23367476	2.93	cps
Indium	115-1	30516913	30420899	30262789	30400200	0.42	cps
Indium	115-2	9947225	9795694	9501137	9748019	2.33	cps
Iron	56-2	45355	45448	44874	45226	0.68	cps
Iron	57-2	1963	2000	1963	1976	1.07	cps
Iron	54-2	4757	5068	4951	4925	3.18	cps
Krypton	83-1	303	313	290	302	3.87	cps

Reviewed By:Mohan
On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4831-06	Instrumnet Name :	P7
Client Sample ID :	E29W0	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 11:17:12	DataFile Name :	036SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	2814	2857	2800	2824	1.05	cps
Lead	207-1	2270	2310	2314	2298	1.05	cps
Lead	208-1	11262	11095	10755	11037	2.34	cps
Lithium	6-1	3466564	3419314	3423967	3436615	0.76	cps
Magnesium	24-2	5988	5631	5374	5664	5.44	cps
Manganese	55-2	17617	17577	17263	17486	1.11	cps
Molybdenum	94-1	650	613	547	603	8.68	cps
Molybdenum	95-1	137	113	143	131	12.01	cps
Molybdenum	96-1	243	293	320	286	13.63	cps
Molybdenum	97-1	77	83	70	77	8.69	cps
Molybdenum	98-1	233	190	187	203	12.80	cps
Neodymium	150-1	13	40	17	23	62.27	cps
Neodymium	150-2	3	0	30	11	148.01	cps
Nickel	60-2	563	577	507	549	6.77	cps
Phosphorus	31-2	440	397	433	423	5.51	cps
Potassium	39-2	86135	85444	84771	85450	0.80	cps
Rhodium	103-1	28918633	28527011	28847979	28764541	0.73	cps
Rhodium	103-2	16591745	16434664	15422809	16149739	3.93	cps
Scandium	45-1	16607613	16584266	16701254	16631044	0.37	cps
Scandium	45-2	1332156	1345861	1244950	1307656	4.19	cps
Selenium	82-1	628	467	511	535	15.50	cps
Selenium	77-2	3	0	0	1	173.21	cps
Selenium	78-2	533	537	457	509	8.89	cps
Silicon	28-1	1278379	1266208	1271941	1272176	0.48	cps
Silver	107-1	290	370	350	337	12.37	cps
Silver	109-1	190	383	230	268	38.12	cps
Sodium	23-2	99381	97345	96540	97755	1.50	cps
Strontium	86-1	1120	1073	1063	1086	2.79	cps
Strontium	88-1	5941	5081	4814	5279	11.16	cps
Sulfur	34-1	318951	317025	318291	318089	0.31	cps
Terbium	159-1	36468087	35710286	35664265	35947546	1.26	cps
Terbium	159-2	23381909	23557586	21854081	22931192	4.09	cps
Thallium	203-1	607	590	460	552	14.54	cps
Thallium	205-1	1260	1167	1310	1246	5.84	cps
Tin	118-1	6832	6792	6472	6698	2.95	cps
Titanium	47-1	273	273	247	264	5.82	cps

Reviewed By:Mohan
On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4831-06	Instrumnet Name :	P7
Client Sample ID :	E29W0	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 11:17:12	DataFile Name :	036SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	77	97	77	83	13.86	cps
Vanadium	51-2	127	83	113	108	20.60	cps
Yttrium	89-1	40269281	40378652	40539436	40395790	0.34	cps
Yttrium	89-2	9729490	9499827	9142129	9457149	3.13	cps
Zinc	66-2	12318	12015	12312	12215	1.42	cps
Zirconium	90-1	1577	1620	1530	1576	2.86	cps
Zirconium	91-1	293	303	333	310	6.71	cps

Reviewed By:Mohan
On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4831-07	Instrumnet Name :	P7
Client Sample ID :	E29W4	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 11:20:29	DataFile Name :	037SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	1395	1458	1381	1411	2.91	cps
Antimony	121-1	167	163	187	172	7.33	cps
Arsenic	75-2	27	13	13	18	43.33	cps
Barium	135-1	427	420	423	423	0.79	cps
Barium	137-1	707	740	700	716	3.00	cps
Beryllium	9-1	89	56	78	74	22.91	cps
Bismuth	209-1	19490521	19898665	19776582	19721923	1.06	cps
Bismuth	209-2	15820470	16163306	15990588	15991455	1.07	cps
Bromine	81-1	17767	17587	16880	17412	2.69	cps
Bromine	81-2	320	323	277	307	8.49	cps
Cadmium	108-1	20	27	47	31	44.61	cps
Cadmium	106-1	10440	10387	10407	10412	0.26	cps
Cadmium	111-1	7351	7306	7299	7319	0.39	cps
Calcium	43-1	7018	7008	6668	6898	2.89	cps
Calcium	44-1	130039	132910	133138	132029	1.31	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	8693	8362	8706	8587	2.27	cps
Cobalt	59-2	240	233	280	251	10.05	cps
Copper	63-2	3040	3197	3130	3123	2.52	cps
Dysprosium	156-1	57	33	60	50	29.06	cps
Dysprosium	156-2	43	10	23	26	65.65	cps
Erbium	164-1	127	137	150	138	8.50	cps
Erbium	164-2	110	90	100	100	10.00	cps
Gadolinium	160-1	163	130	230	174	29.19	cps
Gadolinium	160-2	1187	1203	1200	1197	0.74	cps
Holmium	165-1	32899535	33369989	33390921	33220148	0.84	cps
Holmium	165-2	22839132	22886237	22949201	22891524	0.24	cps
Indium	115-1	28406002	28885511	28902319	28731277	0.98	cps
Indium	115-2	9629695	9718875	9720869	9689813	0.54	cps
Iron	56-2	49682	49387	49856	49642	0.48	cps
Iron	57-2	2130	2100	2127	2119	0.78	cps
Iron	54-2	5754	5428	5741	5641	3.28	cps
Krypton	83-1	300	317	273	297	7.37	cps

Reviewed By:Mohan
On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4831-07	Instrumnet Name :	P7
Client Sample ID :	E29W4	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 11:20:29	DataFile Name :	037SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	2854	2970	2957	2927	2.18	cps
Lead	207-1	2560	2450	2554	2521	2.45	cps
Lead	208-1	11345	11495	11829	11556	2.14	cps
Lithium	6-1	3352952	3411489	3410840	3391760	0.99	cps
Magnesium	24-2	3837	3804	3627	3756	3.01	cps
Manganese	55-2	19800	20060	19937	19932	0.65	cps
Molybdenum	94-1	1417	1360	1380	1386	2.07	cps
Molybdenum	95-1	120	133	170	141	18.35	cps
Molybdenum	96-1	400	397	437	411	5.40	cps
Molybdenum	97-1	120	123	120	121	1.59	cps
Molybdenum	98-1	257	230	287	258	11.00	cps
Neodymium	150-1	23	40	30	31	26.97	cps
Neodymium	150-2	7	23	0	10	120.16	cps
Nickel	60-2	1003	1030	1030	1021	1.51	cps
Phosphorus	31-2	490	420	417	442	9.36	cps
Potassium	39-2	83796	82689	83139	83208	0.67	cps
Rhodium	103-1	27067198	27208909	27686905	27321004	1.19	cps
Rhodium	103-2	16021111	15961985	15812238	15931778	0.68	cps
Scandium	45-1	15494985	15780647	15909113	15728248	1.35	cps
Scandium	45-2	1275567	1281008	1295427	1284000	0.80	cps
Selenium	82-1	582	501	479	520	10.42	cps
Selenium	77-2	0	3	0	1	173.21	cps
Selenium	78-2	393	473	443	437	9.26	cps
Silicon	28-1	1255630	1285564	1291039	1277411	1.49	cps
Silver	107-1	337	283	287	302	9.89	cps
Silver	109-1	187	223	200	203	9.13	cps
Sodium	23-2	92710	92187	92535	92477	0.29	cps
Strontium	86-1	1093	1113	973	1060	7.14	cps
Strontium	88-1	4754	4587	4684	4675	1.79	cps
Sulfur	34-1	312308	310903	309722	310978	0.42	cps
Terbium	159-1	33609588	33950673	34471584	34010615	1.28	cps
Terbium	159-2	22567776	22664852	22803014	22678547	0.52	cps
Thallium	203-1	427	363	413	401	8.32	cps
Thallium	205-1	1097	940	943	993	9.01	cps
Tin	118-1	8156	8172	8423	8250	1.81	cps
Titanium	47-1	223	260	273	252	10.26	cps

Reviewed By:Mohan
On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4831-07	Instrumnet Name :	P7
Client Sample ID :	E29W4	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 11:20:29	DataFile Name :	037SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	53	60	63	59	8.65	cps
Vanadium	51-2	117	110	117	114	3.36	cps
Yttrium	89-1	37776574	38663419	38293201	38244398	1.16	cps
Yttrium	89-2	9248499	9348414	9364309	9320408	0.67	cps
Zinc	66-2	13827	13836	13960	13874	0.54	cps
Zirconium	90-1	3640	3564	3687	3630	1.72	cps
Zirconium	91-1	707	837	807	783	8.69	cps

Reviewed By:Mohan
On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4831-08	Instrumnet Name :	P7
Client Sample ID :	E29W1	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 11:23:43	DataFile Name :	038SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	3279	3115	3313	3236	3.27	cps
Antimony	121-1	153	147	143	148	3.45	cps
Arsenic	75-2	3	17	13	11	62.48	cps
Barium	135-1	390	323	307	340	12.97	cps
Barium	137-1	653	570	510	578	12.46	cps
Beryllium	9-1	72	94	67	78	18.90	cps
Bismuth	209-1	20030218	20484898	20143518	20219544	1.17	cps
Bismuth	209-2	16292320	16221476	16167989	16227262	0.38	cps
Bromine	81-1	15785	15475	16052	15771	1.83	cps
Bromine	81-2	180	210	190	193	7.90	cps
Cadmium	108-1	23	33	33	30	19.25	cps
Cadmium	106-1	10494	10571	10334	10466	1.15	cps
Cadmium	111-1	7383	7453	7240	7359	1.47	cps
Calcium	43-1	5961	6065	6335	6120	3.15	cps
Calcium	44-1	115895	117276	116002	116391	0.66	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	5534	5678	5601	5604	1.28	cps
Cobalt	59-2	547	660	527	578	12.45	cps
Copper	63-2	3260	3057	3057	3125	3.76	cps
Dysprosium	156-1	30	40	20	30	33.33	cps
Dysprosium	156-2	17	23	37	26	39.85	cps
Erbium	164-1	110	123	97	110	12.12	cps
Erbium	164-2	63	110	87	87	26.93	cps
Gadolinium	160-1	147	147	170	154	8.72	cps
Gadolinium	160-2	1150	1197	1317	1221	7.04	cps
Holmium	165-1	33598877	34096387	34088304	33927856	0.84	cps
Holmium	165-2	23112153	23305947	23279145	23232415	0.45	cps
Indium	115-1	29324132	29738823	29652517	29571824	0.74	cps
Indium	115-2	9816154	9780930	9722606	9773230	0.48	cps
Iron	56-2	39776	39662	39625	39688	0.20	cps
Iron	57-2	1777	1793	1800	1790	0.67	cps
Iron	54-2	4737	4587	4537	4621	2.25	cps
Krypton	83-1	353	320	307	327	7.36	cps

Reviewed By:Mohan
On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4831-08	Instrumnet Name :	P7
Client Sample ID :	E29W1	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 11:23:43	DataFile Name :	038SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	2640	2654	2557	2617	2.00	cps
Lead	207-1	2364	2294	2244	2300	2.62	cps
Lead	208-1	10412	10328	10338	10359	0.44	cps
Lithium	6-1	3423264	3523239	3413199	3453234	1.76	cps
Magnesium	24-2	3024	3267	3557	3283	8.14	cps
Manganese	55-2	15118	14741	14674	14844	1.61	cps
Molybdenum	94-1	653	760	663	692	8.51	cps
Molybdenum	95-1	103	127	120	117	10.30	cps
Molybdenum	96-1	303	240	297	280	12.43	cps
Molybdenum	97-1	103	63	73	80	26.02	cps
Molybdenum	98-1	180	220	200	200	10.00	cps
Neodymium	150-1	23	27	30	27	12.51	cps
Neodymium	150-2	20	13	7	13	49.99	cps
Nickel	60-2	647	667	653	656	1.55	cps
Phosphorus	31-2	423	387	377	396	6.21	cps
Potassium	39-2	80317	79741	80843	80300	0.69	cps
Rhodium	103-1	27870529	28123478	28019731	28004579	0.45	cps
Rhodium	103-2	16357783	16159751	16245582	16254372	0.61	cps
Scandium	45-1	16157511	16307194	15948604	16137770	1.12	cps
Scandium	45-2	1317344	1326171	1339539	1327685	0.84	cps
Selenium	82-1	494	457	483	478	4.01	cps
Selenium	77-2	0	0	0	0	0.00	cps
Selenium	78-2	537	437	387	453	16.85	cps
Silicon	28-1	1267515	1253452	1256999	1259322	0.58	cps
Silver	107-1	243	253	203	233	11.34	cps
Silver	109-1	133	150	163	149	10.09	cps
Sodium	23-2	80338	80006	80090	80145	0.22	cps
Strontium	86-1	910	960	983	951	3.94	cps
Strontium	88-1	3974	3994	4117	4028	1.93	cps
Sulfur	34-1	307418	307046	306363	306943	0.17	cps
Terbium	159-1	35146694	34969551	34996084	35037443	0.27	cps
Terbium	159-2	22961530	23039153	22884205	22961629	0.34	cps
Thallium	203-1	327	310	290	309	5.94	cps
Thallium	205-1	827	793	830	817	2.48	cps
Tin	118-1	6872	6672	7052	6865	2.77	cps
Titanium	47-1	323	293	243	287	14.10	cps

Reviewed By:Mohan
On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4831-08	Instrumnet Name :	P7
Client Sample ID :	E29W1	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 11:23:43	DataFile Name :	038SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	70	27	53	50	43.71	cps
Vanadium	51-2	130	77	137	114	28.73	cps
Yttrium	89-1	38937015	39339596	39016019	39097544	0.55	cps
Yttrium	89-2	9464273	9467761	9526237	9486090	0.37	cps
Zinc	66-2	12165	12235	12339	12246	0.71	cps
Zirconium	90-1	1877	1863	1903	1881	1.08	cps
Zirconium	91-1	380	410	370	387	5.38	cps

Reviewed By:Mohan
On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4831-09	Instrumnet Name :	P7
Client Sample ID :	E29W5	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 11:26:59	DataFile Name :	039SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	5103	5109	5090	5100	0.20	cps
Antimony	121-1	177	160	127	154	16.48	cps
Arsenic	75-2	7	7	17	10	57.72	cps
Barium	135-1	430	470	507	469	8.18	cps
Barium	137-1	810	780	770	787	2.65	cps
Beryllium	9-1	72	44	50	56	26.45	cps
Bismuth	209-1	19652833	20055026	19989738	19899199	1.08	cps
Bismuth	209-2	16222329	16197376	16043846	16154517	0.60	cps
Bromine	81-1	15148	15345	15281	15258	0.66	cps
Bromine	81-2	187	143	123	151	21.42	cps
Cadmium	108-1	30	27	20	26	19.92	cps
Cadmium	106-1	10694	10080	10180	10318	3.19	cps
Cadmium	111-1	7525	7097	7162	7262	3.17	cps
Calcium	43-1	5968	6135	6488	6197	4.29	cps
Calcium	44-1	119509	120981	120645	120378	0.64	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	6031	6321	6125	6159	2.40	cps
Cobalt	59-2	217	200	167	194	13.09	cps
Copper	63-2	3981	3967	3984	3977	0.22	cps
Dysprosium	156-1	57	57	47	53	10.82	cps
Dysprosium	156-2	20	23	33	26	27.15	cps
Erbium	164-1	140	123	163	142	14.13	cps
Erbium	164-2	110	107	113	110	3.03	cps
Gadolinium	160-1	143	120	170	144	17.32	cps
Gadolinium	160-2	1200	1160	1203	1188	2.03	cps
Holmium	165-1	33626295	33498704	33879926	33668308	0.58	cps
Holmium	165-2	23180150	22967312	22858881	23002115	0.71	cps
Indium	115-1	28969302	29022493	28935015	28975604	0.15	cps
Indium	115-2	9587122	9756774	9724221	9689373	0.93	cps
Iron	56-2	42456	42186	43225	42622	1.27	cps
Iron	57-2	1947	1887	1913	1916	1.57	cps
Iron	54-2	4931	4884	4934	4916	0.57	cps
Krypton	83-1	317	300	297	304	3.52	cps

Reviewed By:Mohan
On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4831-09	Instrumnet Name :	P7
Client Sample ID :	E29W5	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 11:26:59	DataFile Name :	039SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	2637	2347	2650	2545	6.74	cps
Lead	207-1	2037	2110	2227	2125	4.51	cps
Lead	208-1	9922	9721	10075	9906	1.79	cps
Lithium	6-1	3403091	3471942	3402182	3425738	1.17	cps
Magnesium	24-2	3687	3580	3720	3663	2.00	cps
Manganese	55-2	20885	20784	20421	20697	1.18	cps
Molybdenum	94-1	553	667	690	637	11.48	cps
Molybdenum	95-1	143	153	123	140	10.91	cps
Molybdenum	96-1	263	257	247	256	3.28	cps
Molybdenum	97-1	80	70	90	80	12.50	cps
Molybdenum	98-1	177	190	217	194	10.47	cps
Neodymium	150-1	13	13	20	16	24.76	cps
Neodymium	150-2	7	17	7	10	57.72	cps
Nickel	60-2	657	707	703	689	4.06	cps
Phosphorus	31-2	437	467	437	447	3.88	cps
Potassium	39-2	79017	80069	78826	79304	0.84	cps
Rhodium	103-1	27714030	27415554	28011872	27713818	1.08	cps
Rhodium	103-2	16050815	16113942	16110889	16091882	0.22	cps
Scandium	45-1	15791144	15897706	15863764	15850871	0.34	cps
Scandium	45-2	1321294	1308732	1312157	1314061	0.49	cps
Selenium	82-1	546	542	559	549	1.60	cps
Selenium	77-2	0	3	0	1	173.21	cps
Selenium	78-2	460	433	483	459	5.45	cps
Silicon	28-1	1272200	1279739	1305827	1285922	1.37	cps
Silver	107-1	193	227	197	206	8.93	cps
Silver	109-1	147	130	170	149	13.49	cps
Sodium	23-2	80341	80499	81290	80710	0.63	cps
Strontium	86-1	900	1007	927	944	5.88	cps
Strontium	88-1	3807	4037	4074	3973	3.64	cps
Sulfur	34-1	308093	306673	307129	307298	0.24	cps
Terbium	159-1	34474536	34445446	34639846	34519943	0.30	cps
Terbium	159-2	22832681	22958036	22968570	22919763	0.33	cps
Thallium	203-1	273	253	213	247	12.39	cps
Thallium	205-1	677	550	573	600	11.24	cps
Tin	118-1	7699	7609	7582	7630	0.80	cps
Titanium	47-1	310	280	283	291	5.65	cps

Reviewed By:Mohan
On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4831-09	Instrumnet Name :	P7
Client Sample ID :	E29W5	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 11:26:59	DataFile Name :	039SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	73	53	53	60	19.25	cps
Vanadium	51-2	107	120	123	117	7.56	cps
Yttrium	89-1	38502325	38402066	38512446	38472279	0.16	cps
Yttrium	89-2	9526253	9415334	9299362	9413650	1.21	cps
Zinc	66-2	13176	12812	12962	12984	1.41	cps
Zirconium	90-1	1670	1683	1633	1662	1.56	cps
Zirconium	91-1	360	347	340	349	2.92	cps

Reviewed By:Mohan
On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4831-10	Instrumnet Name :	P7
Client Sample ID :	E29R6	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 11:30:14	DataFile Name :	040SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	6418	5518	5177	5704	11.24	cps
Antimony	121-1	297	277	287	287	3.49	cps
Arsenic	75-2	673	510	583	589	13.89	cps
Barium	135-1	358616	359761	360613	359663	0.28	cps
Barium	137-1	624996	629677	623685	626120	0.50	cps
Beryllium	9-1	56	39	78	57	33.99	cps
Bismuth	209-1	19793252	20271137	19958208	20007533	1.21	cps
Bismuth	209-2	15166620	15800553	16026926	15664699	2.85	cps
Bromine	81-1	47332	57876	62280	55830	13.76	cps
Bromine	81-2	9126	9230	9446	9267	1.76	cps
Cadmium	108-1	43	73	57	58	26.01	cps
Cadmium	106-1	10981	10771	10267	10673	3.44	cps
Cadmium	111-1	7710	7542	7201	7484	3.47	cps
Calcium	43-1	6541168	6592188	6486150	6539835	0.81	cps
Calcium	44-1	104571728	104437008	103396765	104135167	0.62	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	5638	5941	5658	5746	2.95	cps
Cobalt	59-2	9867	10023	9683	9858	1.73	cps
Copper	63-2	3497	3284	3434	3405	3.22	cps
Dysprosium	156-1	147	140	123	137	8.79	cps
Dysprosium	156-2	93	100	80	91	11.18	cps
Erbium	164-1	203	237	220	220	7.57	cps
Erbium	164-2	153	147	223	174	24.35	cps
Gadolinium	160-1	237	203	223	221	7.59	cps
Gadolinium	160-2	1267	1283	1277	1276	0.66	cps
Holmium	165-1	34608189	34348056	34825626	34593957	0.69	cps
Holmium	165-2	22140950	23241838	23690485	23024424	3.46	cps
Indium	115-1	29359033	29591740	29524247	29491673	0.41	cps
Indium	115-2	9393645	9615002	9867793	9625480	2.46	cps
Iron	56-2	2103549	2132959	2044866	2093791	2.14	cps
Iron	57-2	148828	149033	149243	149035	0.14	cps
Iron	54-2	118135	117544	115119	116933	1.37	cps
Krypton	83-1	333	300	333	322	5.97	cps

Reviewed By:Mohan
On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4831-10	Instrumnet Name :	P7
Client Sample ID :	E29R6	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 11:30:14	DataFile Name :	040SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	2474	2607	2590	2557	2.84	cps
Lead	207-1	2137	1910	2264	2104	8.51	cps
Lead	208-1	9785	9812	10072	9889	1.60	cps
Lithium	6-1	3524711	3536713	3474334	3511919	0.94	cps
Magnesium	24-2	39237814	39307702	38281489	38942335	1.47	cps
Manganese	55-2	2915697	2902185	2850786	2889556	1.19	cps
Molybdenum	94-1	52029	51771	52434	52078	0.64	cps
Molybdenum	95-1	89347	89823	87399	88856	1.45	cps
Molybdenum	96-1	95640	95901	96093	95878	0.24	cps
Molybdenum	97-1	55860	56211	54739	55603	1.38	cps
Molybdenum	98-1	142602	142770	142722	142698	0.06	cps
Neodymium	150-1	133	120	130	128	5.43	cps
Neodymium	150-2	63	60	67	63	5.27	cps
Nickel	60-2	2567	2747	2590	2635	3.72	cps
Phosphorus	31-2	520	517	553	530	3.83	cps
Potassium	39-2	1650100	1681321	1646310	1659244	1.16	cps
Rhodium	103-1	27585425	27336811	27468363	27463533	0.45	cps
Rhodium	103-2	14903249	15526676	15670650	15366858	2.65	cps
Scandium	45-1	16516311	16285039	16550253	16450534	0.88	cps
Scandium	45-2	1264058	1320293	1321015	1301789	2.51	cps
Selenium	82-1	644	585	554	595	7.70	cps
Selenium	77-2	0	0	0	0	0.00	cps
Selenium	78-2	540	420	417	459	15.31	cps
Silicon	28-1	83480597	84114244	82773785	83456209	0.80	cps
Silver	107-1	253	240	173	222	19.29	cps
Silver	109-1	137	137	123	132	5.82	cps
Sodium	23-2	22257022	22152236	21806657	22071972	1.07	cps
Strontium	86-1	23857001	23839170	23765226	23820466	0.20	cps
Strontium	88-1	206735504	208340344	208157210	207744352	0.42	cps
Sulfur	34-1	1707916	1676225	1664732	1682958	1.33	cps
Terbium	159-1	35764928	35783236	35845668	35797944	0.12	cps
Terbium	159-2	22234540	23059095	23166818	22820151	2.23	cps
Thallium	203-1	647	763	617	676	11.47	cps
Thallium	205-1	1430	1583	1647	1553	7.17	cps
Tin	118-1	7182	7092	7259	7177	1.16	cps
Titanium	47-1	1117	1117	1180	1138	3.21	cps

Reviewed By:Mohan
On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4831-10	Instrumnet Name :	P7
Client Sample ID :	E29R6	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 11:30:14	DataFile Name :	040SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	100657	101373	101927	101319	0.63	cps
Vanadium	51-2	253	217	223	231	8.45	cps
Yttrium	89-1	40029724	40296409	40305001	40210378	0.39	cps
Yttrium	89-2	8861865	9244180	9437733	9181259	3.19	cps
Zinc	66-2	10144	9887	9783	9938	1.87	cps
Zirconium	90-1	3054	3027	3314	3131	5.06	cps
Zirconium	91-1	663	677	707	682	3.25	cps

Reviewed By:Mohan
On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4831-11	Instrumnet Name :	P7
Client Sample ID :	E29S0	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 11:33:25	DataFile Name :	041SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	2157	2185	2262	2202	2.47	cps
Antimony	121-1	1097	1157	1330	1195	10.14	cps
Arsenic	75-2	673	673	677	674	0.29	cps
Barium	135-1	1180004	1191139	1185344	1185496	0.47	cps
Barium	137-1	2089574	2129067	2141948	2120196	1.29	cps
Beryllium	9-1	39	67	56	54	26.03	cps
Bismuth	209-1	20167223	20053215	19958416	20059618	0.52	cps
Bismuth	209-2	16060828	16074772	16085428	16073676	0.08	cps
Bromine	81-1	49349	56039	60001	55130	9.77	cps
Bromine	81-2	8362	8529	8643	8511	1.66	cps
Cadmium	108-1	47	37	37	40	14.43	cps
Cadmium	106-1	10857	10914	10394	10722	2.66	cps
Cadmium	111-1	7688	7671	7340	7566	2.59	cps
Calcium	43-1	6743990	6726403	6774519	6748304	0.36	cps
Calcium	44-1	108027342	108640948	107261622	107976637	0.64	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	7282	7589	7075	7315	3.53	cps
Cobalt	59-2	4091	3961	3911	3987	2.33	cps
Copper	63-2	9670	9653	9373	9565	1.74	cps
Dysprosium	156-1	140	117	123	127	9.49	cps
Dysprosium	156-2	70	103	107	93	21.72	cps
Erbium	164-1	267	267	223	252	9.92	cps
Erbium	164-2	173	177	183	178	2.86	cps
Gadolinium	160-1	243	237	223	234	4.34	cps
Gadolinium	160-2	1277	1233	1313	1275	3.14	cps
Holmium	165-1	35164029	34505456	34951495	34873660	0.96	cps
Holmium	165-2	23456792	23433173	23701695	23530553	0.63	cps
Indium	115-1	29529328	29485371	29521004	29511901	0.08	cps
Indium	115-2	9787126	9906802	9841453	9845127	0.61	cps
Iron	56-2	1162244	1158128	1155709	1158694	0.29	cps
Iron	57-2	130713	131032	134095	131947	1.42	cps
Iron	54-2	65559	65220	65980	65586	0.58	cps
Krypton	83-1	340	320	340	333	3.46	cps

Reviewed By:Mohan
On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4831-11	Instrumnet Name :	P7
Client Sample ID :	E29S0	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 11:33:25	DataFile Name :	041SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	3217	3267	3080	3188	3.03	cps
Lead	207-1	2680	2897	2797	2791	3.89	cps
Lead	208-1	12609	12522	12559	12563	0.35	cps
Lithium	6-1	3547330	3437895	3512385	3499203	1.60	cps
Magnesium	24-2	35688385	35802694	35515585	35668888	0.41	cps
Manganese	55-2	907929	901119	908757	905935	0.46	cps
Molybdenum	94-1	23222	23836	23011	23357	1.83	cps
Molybdenum	95-1	38013	38748	38674	38478	1.05	cps
Molybdenum	96-1	42281	41512	42391	42061	1.14	cps
Molybdenum	97-1	24237	24414	24430	24360	0.44	cps
Molybdenum	98-1	62667	62506	62721	62631	0.18	cps
Neodymium	150-1	207	190	177	191	7.86	cps
Neodymium	150-2	80	103	67	83	22.27	cps
Nickel	60-2	5381	5614	5314	5437	2.90	cps
Phosphorus	31-2	527	597	527	550	7.35	cps
Potassium	39-2	1905898	1962072	1938426	1935465	1.46	cps
Rhodium	103-1	27546685	27562930	27442099	27517238	0.24	cps
Rhodium	103-2	16060044	15902665	15871154	15944621	0.63	cps
Scandium	45-1	16368604	16524257	16331061	16407974	0.62	cps
Scandium	45-2	1307836	1364493	1335627	1335985	2.12	cps
Selenium	82-1	914	943	866	908	4.27	cps
Selenium	77-2	30	27	43	33	26.45	cps
Selenium	78-2	613	483	520	539	12.44	cps
Silicon	28-1	63827899	64866352	64139691	64277981	0.83	cps
Silver	107-1	300	223	250	258	15.10	cps
Silver	109-1	83	143	120	116	26.18	cps
Sodium	23-2	23227387	23249159	22811880	23096142	1.07	cps
Strontium	86-1	2057003	2052623	2115803	2075143	1.70	cps
Strontium	88-1	17888860	17989778	18057968	17978869	0.47	cps
Sulfur	34-1	1240210	1250799	1221869	1237626	1.18	cps
Terbium	159-1	35943985	35166091	35508356	35539478	1.10	cps
Terbium	159-2	23430540	23432607	23380631	23414593	0.13	cps
Thallium	203-1	980	1010	967	986	2.25	cps
Thallium	205-1	2444	2250	2454	2382	4.81	cps
Tin	118-1	8576	9057	8763	8799	2.76	cps
Titanium	47-1	970	917	1060	982	7.38	cps

Reviewed By:Mohan
On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4831-11	Instrumnet Name :	P7
Client Sample ID :	E29S0	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 11:33:25	DataFile Name :	041SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	94903	95684	96273	95620	0.72	cps
Vanadium	51-2	477	480	560	506	9.33	cps
Yttrium	89-1	39665376	40032249	40365726	40021117	0.88	cps
Yttrium	89-2	9734723	9684627	9723474	9714275	0.27	cps
Zinc	66-2	10400	10540	10073	10338	2.32	cps
Zirconium	90-1	4001	4011	3741	3917	3.91	cps
Zirconium	91-1	793	867	820	827	4.49	cps

Reviewed By:Mohan
On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4831-12	Instrumnet Name :	P7
Client Sample ID :	E29S2	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 11:36:33	DataFile Name :	042SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	2265	2296	2187	2249	2.49	cps
Antimony	121-1	213	227	200	213	6.25	cps
Arsenic	75-2	497	570	527	531	6.94	cps
Barium	135-1	348786	356756	358533	354692	1.46	cps
Barium	137-1	612030	617723	619531	616428	0.64	cps
Beryllium	9-1	56	61	39	52	22.30	cps
Bismuth	209-1	20352783	20051696	20215548	20206676	0.75	cps
Bismuth	209-2	16321041	16187303	16056811	16188385	0.82	cps
Bromine	81-1	51764	60898	66345	59669	12.35	cps
Bromine	81-2	9340	9063	9777	9393	3.83	cps
Cadmium	108-1	37	33	37	36	5.42	cps
Cadmium	106-1	11074	10724	10724	10841	1.87	cps
Cadmium	111-1	7813	7510	7538	7620	2.20	cps
Calcium	43-1	6277694	6511518	6446490	6411901	1.88	cps
Calcium	44-1	101739278	103178072	101613618	102176990	0.85	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	5474	5461	5451	5462	0.21	cps
Cobalt	59-2	9807	10140	9560	9836	2.96	cps
Copper	63-2	3781	3677	3777	3745	1.57	cps
Dysprosium	156-1	110	110	130	117	9.90	cps
Dysprosium	156-2	93	110	113	106	10.16	cps
Erbium	164-1	280	240	227	249	11.15	cps
Erbium	164-2	197	193	180	190	4.64	cps
Gadolinium	160-1	230	243	237	237	2.82	cps
Gadolinium	160-2	1237	1297	1297	1277	2.71	cps
Holmium	165-1	34874481	34617380	34875740	34789201	0.43	cps
Holmium	165-2	24208370	23589395	23528297	23775354	1.58	cps
Indium	115-1	30015227	29701863	29902132	29873074	0.53	cps
Indium	115-2	9840579	9955046	9813815	9869813	0.76	cps
Iron	56-2	2051873	2067162	2042673	2053903	0.60	cps
Iron	57-2	146692	148785	149404	148293	0.96	cps
Iron	54-2	111475	114065	112426	112655	1.16	cps
Krypton	83-1	343	300	287	310	9.56	cps

Reviewed By:Mohan
On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4831-12	Instrumnet Name :	P7
Client Sample ID :	E29S2	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 11:36:33	DataFile Name :	042SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	2787	2737	2574	2699	4.13	cps
Lead	207-1	2184	2204	2337	2241	3.72	cps
Lead	208-1	10562	10342	10478	10461	1.06	cps
Lithium	6-1	3542297	3504658	3539776	3528910	0.60	cps
Magnesium	24-2	37341349	38668296	38278231	38095959	1.79	cps
Manganese	55-2	2861914	2863617	2849780	2858437	0.26	cps
Molybdenum	94-1	51306	50373	50534	50738	0.98	cps
Molybdenum	95-1	86832	87640	88032	87502	0.70	cps
Molybdenum	96-1	93553	94133	95324	94337	0.96	cps
Molybdenum	97-1	54541	55277	54565	54794	0.76	cps
Molybdenum	98-1	140169	142621	142723	141838	1.02	cps
Neodymium	150-1	127	120	160	136	15.81	cps
Neodymium	150-2	70	63	60	64	7.90	cps
Nickel	60-2	2764	2760	2914	2813	3.11	cps
Phosphorus	31-2	513	547	540	533	3.31	cps
Potassium	39-2	1611188	1644097	1593685	1616323	1.58	cps
Rhodium	103-1	27952149	27181082	27210557	27447929	1.59	cps
Rhodium	103-2	16049254	15875418	16021533	15982068	0.58	cps
Scandium	45-1	16668854	16488592	16504932	16554126	0.60	cps
Scandium	45-2	1313104	1340543	1332167	1328605	1.06	cps
Selenium	82-1	600	606	507	571	9.71	cps
Selenium	77-2	3	0	0	1	173.21	cps
Selenium	78-2	417	517	390	441	15.14	cps
Silicon	28-1	82280489	83077414	81447717	82268540	0.99	cps
Silver	107-1	230	217	270	239	11.62	cps
Silver	109-1	123	110	120	118	5.89	cps
Sodium	23-2	21348243	22176463	21784129	21769612	1.90	cps
Strontium	86-1	23249881	23696398	23643154	23529811	1.04	cps
Strontium	88-1	205175210	204803910	205333950	205104357	0.13	cps
Sulfur	34-1	1695275	1725091	1703767	1708045	0.90	cps
Terbium	159-1	35909696	35569347	35912547	35797197	0.55	cps
Terbium	159-2	23511845	23896436	23345200	23584494	1.20	cps
Thallium	203-1	760	753	637	717	9.68	cps
Thallium	205-1	1630	1600	1720	1650	3.79	cps
Tin	118-1	6755	7395	7519	7223	5.68	cps
Titanium	47-1	1130	1160	1233	1175	4.53	cps

Reviewed By:Mohan
On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4831-12	Instrumnet Name :	P7
Client Sample ID :	E29S2	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 11:36:33	DataFile Name :	042SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	98847	99146	99798	99264	0.49	cps
Vanadium	51-2	243	220	233	232	5.04	cps
Yttrium	89-1	40921181	40518116	40272118	40570472	0.81	cps
Yttrium	89-2	9695142	9452470	9536458	9561357	1.29	cps
Zinc	66-2	9316	8863	9143	9107	2.51	cps
Zirconium	90-1	2560	2650	2590	2600	1.76	cps
Zirconium	91-1	530	543	557	543	2.45	cps

Reviewed By:Mohan
On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4831-13	Instrumnet Name :	P7
Client Sample ID :	E29S6	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 11:39:43	DataFile Name :	043SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	404678	403196	404579	404151	0.20	cps
Antimony	121-1	27593	27226	28124	27648	1.63	cps
Arsenic	75-2	6498	6415	6578	6497	1.26	cps
Barium	135-1	889337	894936	906823	897032	1.00	cps
Barium	137-1	1588788	1612215	1598735	1599913	0.73	cps
Beryllium	9-1	156	144	150	150	3.70	cps
Bismuth	209-1	20435178	20354573	20075692	20288481	0.93	cps
Bismuth	209-2	15911439	16016020	15890898	15939453	0.42	cps
Bromine	81-1	70749	88557	96778	85361	15.59	cps
Bromine	81-2	15415	16202	15935	15851	2.53	cps
Cadmium	108-1	107	83	93	94	12.40	cps
Cadmium	106-1	11258	11141	10757	11052	2.37	cps
Cadmium	111-1	8016	7964	7708	7896	2.08	cps
Calcium	43-1	7822199	7879068	7750661	7817309	0.82	cps
Calcium	44-1	124050728	127649675	125500741	125733715	1.44	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	26179	25669	26256	26035	1.23	cps
Cobalt	59-2	32201	33167	32873	32747	1.51	cps
Copper	63-2	44469	44663	44285	44472	0.42	cps
Dysprosium	156-1	5971	6295	6195	6154	2.69	cps
Dysprosium	156-2	4794	4954	4811	4853	1.81	cps
Erbium	164-1	5008	5368	5261	5212	3.55	cps
Erbium	164-2	3560	3530	3744	3612	3.20	cps
Gadolinium	160-1	6088	6355	6375	6273	2.55	cps
Gadolinium	160-2	5655	5488	5685	5609	1.89	cps
Holmium	165-1	35524206	34489349	34767592	34927049	1.53	cps
Holmium	165-2	23705031	23358637	23461272	23508314	0.76	cps
Indium	115-1	29690089	29603955	29660063	29651369	0.15	cps
Indium	115-2	9871752	9817576	9560977	9750101	1.70	cps
Iron	56-2	28714708	28448419	28651504	28604877	0.49	cps
Iron	57-2	826218	830296	828077	828197	0.25	cps
Iron	54-2	1571646	1605819	1558413	1578626	1.55	cps
Krypton	83-1	380	290	313	328	14.25	cps

Reviewed By:Mohan
On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4831-13	Instrumnet Name :	P7
Client Sample ID :	E29S6	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 11:39:43	DataFile Name :	043SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	23574	24579	23951	24035	2.11	cps
Lead	207-1	19210	20035	19521	19589	2.13	cps
Lead	208-1	89983	93127	91573	91561	1.72	cps
Lithium	6-1	3558736	3490275	3458955	3502656	1.46	cps
Magnesium	24-2	44508608	44165328	43711813	44128583	0.91	cps
Manganese	55-2	2596065	2545270	2541617	2560984	1.19	cps
Molybdenum	94-1	111446	114093	113828	113122	1.29	cps
Molybdenum	95-1	173839	174325	175611	174591	0.52	cps
Molybdenum	96-1	187435	190132	192659	190075	1.37	cps
Molybdenum	97-1	107219	109432	110742	109131	1.63	cps
Molybdenum	98-1	280341	284716	282023	282360	0.78	cps
Neodymium	150-1	9964	10414	9773	10050	3.27	cps
Neodymium	150-2	5751	5538	5578	5622	2.02	cps
Nickel	60-2	20521	20351	21082	20651	1.85	cps
Phosphorus	31-2	2013	2117	2027	2052	2.74	cps
Potassium	39-2	2471341	2510550	2510132	2497341	0.90	cps
Rhodium	103-1	27432836	27050302	27201943	27228360	0.71	cps
Rhodium	103-2	15902086	15830854	15583223	15772054	1.06	cps
Scandium	45-1	16930215	16430490	16544592	16635099	1.57	cps
Scandium	45-2	1332016	1317859	1298709	1316195	1.27	cps
Selenium	82-1	589	626	581	599	4.04	cps
Selenium	77-2	10	33	17	20	60.08	cps
Selenium	78-2	510	487	443	480	7.05	cps
Silicon	28-1	99561352	103374305	101559298	101498318	1.88	cps
Silver	107-1	353	350	370	358	3.00	cps
Silver	109-1	263	213	250	242	10.69	cps
Sodium	23-2	20712751	20640724	20491236	20614903	0.55	cps
Strontium	86-1	1952340	1950900	1975181	1959473	0.70	cps
Strontium	88-1	17159734	17133096	17224788	17172539	0.27	cps
Sulfur	34-1	2823666	2906012	2855229	2861636	1.45	cps
Terbium	159-1	36615919	35872892	35988034	36158948	1.11	cps
Terbium	159-2	23528800	23238885	23132287	23299991	0.88	cps
Thallium	203-1	1583	1487	1507	1526	3.34	cps
Thallium	205-1	3574	3654	3507	3578	2.05	cps
Tin	118-1	9780	9977	9894	9883	1.00	cps
Titanium	47-1	63582	60338	61131	61684	2.74	cps

Reviewed By:Mohan
On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4831-13	Instrumnet Name :	P7
Client Sample ID :	E29S6	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 11:39:43	DataFile Name :	043SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	78895	80180	80052	79709	0.89	cps
Vanadium	51-2	14344	15582	15068	14998	4.15	cps
Yttrium	89-1	40667652	39494070	39701989	39954570	1.57	cps
Yttrium	89-2	9561694	9551961	9471380	9528345	0.52	cps
Zinc	66-2	19736	19192	19429	19453	1.40	cps
Zirconium	90-1	37409	37688	37074	37390	0.82	cps
Zirconium	91-1	8326	8062	8590	8326	3.17	cps

Reviewed By:Mohan
On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	CCV005	Instrumnet Name :	P7
Client Sample ID :	CCV005	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 11:42:51	DataFile Name :	044CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	26103296	26442051	26655248	26400199	1.05	cps
Antimony	121-1	12513736	12625910	12665001	12601549	0.62	cps
Arsenic	75-2	638313	634205	633111	635210	0.43	cps
Barium	135-1	15256305	15299309	15258000	15271205	0.16	cps
Barium	137-1	25861698	26283502	26401570	26182257	1.08	cps
Beryllium	9-1	1275072	1259165	1275417	1269885	0.73	cps
Bismuth	209-1	19278010	18978629	18788407	19015015	1.30	cps
Bismuth	209-2	14609711	14621783	14596912	14609469	0.09	cps
Bromine	81-1	28855	27339	25676	27290	5.83	cps
Bromine	81-2	1423	1417	1187	1342	10.04	cps
Cadmium	108-1	242301	242131	243785	242739	0.37	cps
Cadmium	106-1	344403	347886	347622	346637	0.56	cps
Cadmium	111-1	3334929	3337560	3338067	3336852	0.05	cps
Calcium	43-1	16095268	16140007	16229200	16154825	0.42	cps
Calcium	44-1	262030983	259506276	264010863	261849374	0.86	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	4984996	4973765	4950123	4969628	0.36	cps
Cobalt	59-2	8049880	8147612	8031005	8076166	0.77	cps
Copper	63-2	58902077	59005379	58847554	58918337	0.14	cps
Dysprosium	156-1	610	693	740	681	9.67	cps
Dysprosium	156-2	1037	1017	947	1000	4.73	cps
Erbium	164-1	663	670	660	664	0.77	cps
Erbium	164-2	433	480	517	477	8.76	cps
Gadolinium	160-1	473	573	627	558	13.96	cps
Gadolinium	160-2	1393	1407	1603	1468	8.01	cps
Holmium	165-1	34929629	34145821	34359399	34478283	1.18	cps
Holmium	165-2	23261073	23111925	23002330	23125109	0.56	cps
Indium	115-1	28429457	28047602	27976425	28151162	0.87	cps
Indium	115-2	9382332	9188048	9338295	9302892	1.09	cps
Iron	56-2	1111026143	1118662650	1114590623	1114759806	0.34	cps
Iron	57-2	27639168	27772943	27931357	27781156	0.53	cps
Iron	54-2	60689182	61060612	60546416	60765404	0.44	cps
Krypton	83-1	350	330	437	372	15.23	cps

Reviewed By:Mohan
On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	CCV005	Instrumnet Name :	P7
Client Sample ID :	CCV005	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 11:42:51	DataFile Name :	044CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	43202441	43535474	43120788	43286234	0.51	cps
Lead	207-1	38029059	38534890	38062662	38208871	0.74	cps
Lead	208-1	172479189	174410817	172450538	173113515	0.65	cps
Lithium	6-1	3388232	3267153	3237273	3297553	2.42	cps
Magnesium	24-2	229186277	225830263	225998970	227005170	0.83	cps
Manganese	55-2	37479767	37745013	37720299	37648360	0.39	cps
Molybdenum	94-1	44477021	45078253	45128366	44894547	0.81	cps
Molybdenum	95-1	64737102	65552934	65446226	65245421	0.68	cps
Molybdenum	96-1	71105964	71887231	72449776	71814323	0.94	cps
Molybdenum	97-1	40201017	40644369	41082122	40642502	1.08	cps
Molybdenum	98-1	103931802	104267398	105687788	104628996	0.89	cps
Neodymium	150-1	907	897	840	881	4.08	cps
Neodymium	150-2	277	213	280	257	14.64	cps
Nickel	60-2	2047196	2030504	2088693	2055465	1.46	cps
Phosphorus	31-2	243904	243667	245090	244220	0.31	cps
Potassium	39-2	128362498	129309095	129419345	129030313	0.45	cps
Rhodium	103-1	25768359	25516447	25563714	25616173	0.52	cps
Rhodium	103-2	14759731	14664549	14793347	14739209	0.45	cps
Scandium	45-1	16176710	16209195	15970382	16118762	0.80	cps
Scandium	45-2	1277912	1323094	1338899	1313302	2.41	cps
Selenium	82-1	192270	195130	195119	194173	0.85	cps
Selenium	77-2	18285	17918	18405	18202	1.39	cps
Selenium	78-2	61785	61815	61219	61606	0.54	cps
Silicon	28-1	21862947	22009238	22239071	22037085	0.86	cps
Silver	107-1	16365711	16433423	16453764	16417633	0.28	cps
Silver	109-1	15671502	15526083	15683163	15626916	0.56	cps
Sodium	23-2	353308328	354995568	350918035	353073977	0.58	cps
Strontium	86-1	3969787	3991611	4128579	4029992	2.14	cps
Strontium	88-1	34940864	35228102	35473100	35214022	0.76	cps
Sulfur	34-1	1322886	1314169	1306330	1314462	0.63	cps
Terbium	159-1	35693277	35571916	35236899	35500698	0.67	cps
Terbium	159-2	22810186	22688136	22786302	22761541	0.28	cps
Thallium	203-1	10829355	10920018	10950544	10899972	0.58	cps
Thallium	205-1	26172857	25952181	26037991	26054343	0.43	cps
Tin	118-1	10296577	10463510	10371406	10377164	0.81	cps
Titanium	47-1	15473765	15692278	15647974	15604672	0.74	cps

Reviewed By:Mohan
On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	CCV005	Instrumnet Name :	P7
Client Sample ID :	CCV005	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 11:42:51	DataFile Name :	044CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	33613515	33693733	34090729	33799326	0.76	cps
Vanadium	51-2	4363512	4385007	4342135	4363551	0.49	cps
Yttrium	89-1	39195108	38858131	38928054	38993764	0.46	cps
Yttrium	89-2	9479857	9360429	9437488	9425925	0.64	cps
Zinc	66-2	9435568	9419517	9523670	9459585	0.59	cps
Zirconium	90-1	21791103	22114420	22137561	22014361	0.88	cps
Zirconium	91-1	4786796	4911346	4883639	4860594	1.35	cps

Reviewed By:Mohan
On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	CCB005	Instrumnet Name :	P7
Client Sample ID :	CCB005	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 11:45:33	DataFile Name :	045CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	1410	977	928	1105	24.02	cps
Antimony	121-1	5975	6602	7812	6796	13.74	cps
Arsenic	75-2	40	30	27	32	21.53	cps
Barium	135-1	3084	1527	1130	1914	53.97	cps
Barium	137-1	5394	2987	1797	3393	54.02	cps
Beryllium	9-1	378	261	128	256	48.95	cps
Bismuth	209-1	19371767	19486504	19876750	19578341	1.35	cps
Bismuth	209-2	16105366	15974334	15997123	16025608	0.44	cps
Bromine	81-1	17621	16683	16626	16977	3.29	cps
Bromine	81-2	357	377	373	369	2.90	cps
Cadmium	108-1	73	60	27	53	45.06	cps
Cadmium	106-1	10014	10297	9917	10076	1.96	cps
Cadmium	111-1	7828	7566	7166	7520	4.43	cps
Calcium	43-1	10430	8489	7805	8908	15.29	cps
Calcium	44-1	181616	156529	146526	161557	11.19	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	6822	6605	6908	6778	2.31	cps
Cobalt	59-2	437	367	293	366	19.61	cps
Copper	63-2	4054	3847	3837	3913	3.13	cps
Dysprosium	156-1	10	23	13	16	44.60	cps
Dysprosium	156-2	17	10	7	11	45.82	cps
Erbium	164-1	133	100	130	121	15.16	cps
Erbium	164-2	90	110	120	107	14.32	cps
Gadolinium	160-1	143	103	127	124	16.15	cps
Gadolinium	160-2	1353	1233	1133	1240	8.88	cps
Holmium	165-1	32546415	33073638	33215713	32945255	1.07	cps
Holmium	165-2	22870854	22907073	23035519	22937815	0.38	cps
Indium	115-1	27862063	28351261	28543013	28252112	1.24	cps
Indium	115-2	9747534	9711584	9795115	9751411	0.43	cps
Iron	56-2	66801	60655	57295	61584	7.83	cps
Iron	57-2	2457	2257	2267	2327	4.84	cps
Iron	54-2	6718	6405	6258	6460	3.64	cps
Krypton	83-1	330	270	280	293	10.96	cps

Reviewed By:Mohan
On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	CCB005	Instrumnet Name :	P7
Client Sample ID :	CCB005	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 11:45:33	DataFile Name :	045CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	11252	6715	4821	7596	43.50	cps
Lead	207-1	9744	5928	4321	6664	41.80	cps
Lead	208-1	44877	26914	20089	30627	41.81	cps
Lithium	6-1	3398881	3302358	3410364	3370534	1.76	cps
Magnesium	24-2	7799	6852	6038	6896	12.78	cps
Manganese	55-2	14530	14434	14314	14426	0.75	cps
Molybdenum	94-1	11478	7285	5931	8232	35.13	cps
Molybdenum	95-1	14007	7762	5254	9008	50.04	cps
Molybdenum	96-1	15656	8883	6515	10351	45.83	cps
Molybdenum	97-1	8846	4727	3360	5645	50.59	cps
Molybdenum	98-1	22331	12379	9086	14599	47.24	cps
Neodymium	150-1	30	30	17	26	30.11	cps
Neodymium	150-2	7	7	10	8	24.71	cps
Nickel	60-2	677	617	593	629	6.84	cps
Phosphorus	31-2	440	360	443	414	11.38	cps
Potassium	39-2	79911	79804	77955	79224	1.39	cps
Rhodium	103-1	26602746	26824076	27009913	26812245	0.76	cps
Rhodium	103-2	16059921	15963459	16183718	16069032	0.69	cps
Scandium	45-1	15560515	15509125	15750586	15606742	0.82	cps
Scandium	45-2	1303361	1284674	1313075	1300370	1.11	cps
Selenium	82-1	584	562	527	558	5.08	cps
Selenium	77-2	0	7	0	2	173.21	cps
Selenium	78-2	473	427	433	444	5.68	cps
Silicon	28-1	1316180	1303511	1287235	1302309	1.11	cps
Silver	107-1	3230	1673	1120	2008	54.49	cps
Silver	109-1	3124	1497	1060	1894	57.43	cps
Sodium	23-2	86803	83592	83883	84759	2.09	cps
Strontium	86-1	1760	1270	1003	1345	28.55	cps
Strontium	88-1	10724	7185	5878	7929	31.62	cps
Sulfur	34-1	289582	286208	289250	288347	0.64	cps
Terbium	159-1	33503163	33842254	33927954	33757790	0.67	cps
Terbium	159-2	22491710	22765441	22731324	22662825	0.66	cps
Thallium	203-1	2497	1530	1073	1700	42.75	cps
Thallium	205-1	5935	3511	2517	3987	44.09	cps
Tin	118-1	10554	9336	9457	9782	6.86	cps
Titanium	47-1	3364	1817	1090	2090	55.56	cps

Reviewed By:Mohan
On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	CCB005	Instrumnet Name :	P7
Client Sample ID :	CCB005	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 11:45:33	DataFile Name :	045CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	6652	3400	1954	4002	60.13	cps
Vanadium	51-2	140	160	140	147	7.87	cps
Yttrium	89-1	37553856	37724034	38084916	37787602	0.72	cps
Yttrium	89-2	9352523	9411927	9373259	9379236	0.32	cps
Zinc	66-2	14020	14290	13917	14076	1.37	cps
Zirconium	90-1	10571	8459	8156	9062	14.52	cps
Zirconium	91-1	2407	1890	1680	1992	18.77	cps

Reviewed By:Mohan
On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4831-14	Instrumnet Name :	P7
Client Sample ID :	E29W6	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 12:02:28	DataFile Name :	046SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	9571	9591	9814	9658	1.40	cps
Antimony	121-1	1157	1020	1387	1188	15.60	cps
Arsenic	75-2	23	20	7	17	52.90	cps
Barium	135-1	1147	1310	1380	1279	9.36	cps
Barium	137-1	1990	2034	2317	2114	8.40	cps
Beryllium	9-1	72	28	61	54	43.06	cps
Bismuth	209-1	19728651	19740931	19880476	19783353	0.43	cps
Bismuth	209-2	16199395	15878702	16032794	16036964	1.00	cps
Bromine	81-1	16109	16182	15995	16096	0.59	cps
Bromine	81-2	130	123	120	124	4.09	cps
Cadmium	108-1	23	20	20	21	9.11	cps
Cadmium	106-1	9530	9366	9426	9441	0.88	cps
Cadmium	111-1	6705	6609	6685	6666	0.75	cps
Calcium	43-1	10447	11024	10290	10587	3.65	cps
Calcium	44-1	185277	188857	188202	187445	1.02	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	6471	6435	6541	6483	0.84	cps
Cobalt	59-2	313	290	357	320	10.57	cps
Copper	63-2	6868	6908	6862	6879	0.37	cps
Dysprosium	156-1	50	40	30	40	25.00	cps
Dysprosium	156-2	10	10	23	14	53.28	cps
Erbium	164-1	137	120	140	132	8.10	cps
Erbium	164-2	77	77	93	82	11.70	cps
Gadolinium	160-1	117	133	167	139	18.33	cps
Gadolinium	160-2	1140	1290	1267	1232	6.55	cps
Holmium	165-1	33134830	32973994	33444985	33184603	0.72	cps
Holmium	165-2	23023890	22974822	23374135	23124283	0.94	cps
Indium	115-1	29352557	29817616	29213454	29461209	1.07	cps
Indium	115-2	9928534	9737822	9851148	9839168	0.97	cps
Iron	56-2	49585	48545	48659	48929	1.17	cps
Iron	57-2	2277	2224	2070	2190	4.90	cps
Iron	54-2	5474	5194	5198	5289	3.04	cps
Krypton	83-1	363	283	327	324	12.34	cps

Reviewed By:Mohan
On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4831-14	Instrumnet Name :	P7
Client Sample ID :	E29W6	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 12:02:28	DataFile Name :	046SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	2804	2987	2917	2903	3.19	cps
Lead	207-1	2467	2437	2534	2479	2.00	cps
Lead	208-1	11139	11475	11449	11354	1.65	cps
Lithium	6-1	3225131	3286850	3281352	3264444	1.05	cps
Magnesium	24-2	6578	6351	6675	6535	2.54	cps
Manganese	55-2	21712	21926	21686	21775	0.61	cps
Molybdenum	94-1	830	880	913	874	4.80	cps
Molybdenum	95-1	203	233	620	352	66.00	cps
Molybdenum	96-1	440	373	2512	1108	109.70	cps
Molybdenum	97-1	177	190	2167	845	135.61	cps
Molybdenum	98-1	337	357	5358	2017	143.44	cps
Neodymium	150-1	43	17	20	27	54.47	cps
Neodymium	150-2	7	20	7	11	69.25	cps
Nickel	60-2	1117	1323	1180	1207	8.77	cps
Phosphorus	31-2	380	403	387	390	3.08	cps
Potassium	39-2	83229	82472	82294	82665	0.60	cps
Rhodium	103-1	27863055	28162410	27931115	27985527	0.56	cps
Rhodium	103-2	16546303	16126978	16241968	16305083	1.33	cps
Scandium	45-1	16446157	16540038	16428710	16471635	0.36	cps
Scandium	45-2	1343983	1331011	1353027	1342674	0.82	cps
Selenium	82-1	512	534	434	493	10.67	cps
Selenium	77-2	0	0	7	2	173.21	cps
Selenium	78-2	420	563	510	498	14.55	cps
Silicon	28-1	1358460	1336725	1379981	1358389	1.59	cps
Silver	107-1	237	263	537	346	48.07	cps
Silver	109-1	103	140	383	209	72.87	cps
Sodium	23-2	166752	163581	164589	164974	0.98	cps
Strontium	86-1	1823	1833	2127	1928	8.94	cps
Strontium	88-1	12529	12629	12616	12591	0.43	cps
Sulfur	34-1	320972	318668	318499	319380	0.43	cps
Terbium	159-1	34498263	34483589	34191375	34391076	0.50	cps
Terbium	159-2	23014217	22716265	22687479	22805987	0.79	cps
Thallium	203-1	337	323	343	334	3.05	cps
Thallium	205-1	730	633	797	720	11.41	cps
Tin	118-1	7756	7849	7919	7841	1.05	cps
Titanium	47-1	293	323	373	330	12.25	cps

Reviewed By:Mohan
On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4831-14	Instrumnet Name :	P7
Client Sample ID :	E29W6	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 12:02:28	DataFile Name :	046SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	53	40	67	53	25.00	cps
Vanadium	51-2	117	143	117	126	12.26	cps
Yttrium	89-1	38988205	39591298	39387298	39322267	0.78	cps
Yttrium	89-2	9624782	9583668	9624130	9610860	0.25	cps
Zinc	66-2	15368	14871	14591	14943	2.64	cps
Zirconium	90-1	1983	2037	2160	2060	4.40	cps
Zirconium	91-1	417	460	457	444	5.43	cps

Reviewed By:Mohan
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Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4831-15	Instrumnet Name :	P7
Client Sample ID :	E29W2	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 12:05:43	DataFile Name :	047SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	9652	9748	9682	9694	0.51	cps
Antimony	121-1	873	847	930	883	4.82	cps
Arsenic	75-2	33	17	10	20	60.08	cps
Barium	135-1	1073	1090	1137	1100	2.98	cps
Barium	137-1	2037	2110	1997	2048	2.81	cps
Beryllium	9-1	50	56	78	61	24.05	cps
Bismuth	209-1	19626340	19988323	19955898	19856854	1.01	cps
Bismuth	209-2	16084866	15915956	15978038	15992953	0.53	cps
Bromine	81-1	16106	16329	15889	16108	1.37	cps
Bromine	81-2	143	110	110	121	15.89	cps
Cadmium	108-1	17	33	20	23	37.78	cps
Cadmium	106-1	10644	10287	10090	10340	2.71	cps
Cadmium	111-1	7499	7238	7089	7275	2.85	cps
Calcium	43-1	10173	10050	10107	10110	0.61	cps
Calcium	44-1	178581	179751	181568	179967	0.84	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	5428	5618	5684	5577	2.39	cps
Cobalt	59-2	200	237	167	201	17.41	cps
Copper	63-2	6398	6371	6175	6315	1.93	cps
Dysprosium	156-1	53	40	50	48	14.52	cps
Dysprosium	156-2	10	30	23	21	48.24	cps
Erbium	164-1	123	150	183	152	19.75	cps
Erbium	164-2	127	83	70	93	31.75	cps
Gadolinium	160-1	97	147	127	123	20.40	cps
Gadolinium	160-2	1293	1150	1267	1237	6.16	cps
Holmium	165-1	33604123	33797498	33704470	33702030	0.29	cps
Holmium	165-2	22927680	22937859	22689468	22851669	0.62	cps
Indium	115-1	29238912	29138249	29546836	29307999	0.73	cps
Indium	115-2	9850710	9900377	9655042	9802043	1.32	cps
Iron	56-2	42724	42573	42426	42575	0.35	cps
Iron	57-2	2010	2110	2077	2066	2.47	cps
Iron	54-2	4747	4814	4741	4767	0.85	cps
Krypton	83-1	307	343	323	324	5.66	cps

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4831-15	Instrumnet Name :	P7
Client Sample ID :	E29W2	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 12:05:43	DataFile Name :	047SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	2357	2430	2600	2462	5.07	cps
Lead	207-1	1977	2217	2137	2110	5.79	cps
Lead	208-1	9258	9731	10095	9695	4.33	cps
Lithium	6-1	3317336	3316860	3238215	3290803	1.38	cps
Magnesium	24-2	5935	5788	5878	5867	1.26	cps
Manganese	55-2	12125	12265	12315	12235	0.81	cps
Molybdenum	94-1	630	713	770	704	10.00	cps
Molybdenum	95-1	130	133	143	136	5.12	cps
Molybdenum	96-1	273	320	370	321	15.05	cps
Molybdenum	97-1	83	87	120	97	20.98	cps
Molybdenum	98-1	263	197	217	226	15.17	cps
Neodymium	150-1	10	37	13	20	72.66	cps
Neodymium	150-2	10	17	20	16	32.73	cps
Nickel	60-2	700	680	710	697	2.19	cps
Phosphorus	31-2	427	400	363	397	8.02	cps
Potassium	39-2	79144	78451	79352	78982	0.60	cps
Rhodium	103-1	28332841	28145410	28251310	28243187	0.33	cps
Rhodium	103-2	16475632	16274005	15924684	16224774	1.72	cps
Scandium	45-1	16640448	16540934	16301197	16494193	1.06	cps
Scandium	45-2	1350174	1332959	1349928	1344354	0.73	cps
Selenium	82-1	561	457	532	517	10.45	cps
Selenium	77-2	0	0	0	0	0.00	cps
Selenium	78-2	457	423	467	449	5.06	cps
Silicon	28-1	1365807	1382445	1365816	1371356	0.70	cps
Silver	107-1	257	263	290	270	6.53	cps
Silver	109-1	160	180	123	154	18.61	cps
Sodium	23-2	127032	126686	126155	126624	0.35	cps
Strontium	86-1	1850	2037	1977	1955	4.88	cps
Strontium	88-1	12225	12208	12092	12175	0.60	cps
Sulfur	34-1	315450	316178	317933	316520	0.40	cps
Terbium	159-1	34780224	34467059	34958829	34735371	0.72	cps
Terbium	159-2	23126147	22667538	22475619	22756435	1.47	cps
Thallium	203-1	253	247	207	236	10.72	cps
Thallium	205-1	667	650	517	611	13.45	cps
Tin	118-1	6992	7432	7572	7332	4.13	cps
Titanium	47-1	303	273	317	298	7.45	cps

Reviewed By:Mohan
On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4831-15	Instrumnet Name :	P7
Client Sample ID :	E29W2	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 12:05:43	DataFile Name :	047SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	33	40	47	40	16.68	cps
Vanadium	51-2	133	93	133	120	19.25	cps
Yttrium	89-1	39574491	39811829	39502826	39629716	0.41	cps
Yttrium	89-2	9711835	9489492	9427169	9542832	1.57	cps
Zinc	66-2	14584	14284	13720	14196	3.09	cps
Zirconium	90-1	1827	1970	2007	1935	4.92	cps
Zirconium	91-1	443	493	420	452	8.29	cps

Reviewed By:Mohan
On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4832-01	Instrumnet Name :	P7
Client Sample ID :	E29S5	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 12:09:01	DataFile Name :	048SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	2390	2438	2440	2423	1.16	cps
Antimony	121-1	5304	5311	5261	5292	0.51	cps
Arsenic	75-2	3580	3660	3497	3579	2.28	cps
Barium	135-1	399539	401857	401215	400870	0.30	cps
Barium	137-1	693241	703766	695868	697625	0.79	cps
Beryllium	9-1	44	56	39	46	18.33	cps
Bismuth	209-1	20136754	19530147	19806822	19824574	1.53	cps
Bismuth	209-2	15832396	15918058	15740303	15830252	0.56	cps
Bromine	81-1	42535	48727	51382	47548	9.55	cps
Bromine	81-2	6892	7182	7239	7104	2.62	cps
Cadmium	108-1	53	83	70	69	21.82	cps
Cadmium	106-1	10767	10511	10447	10575	1.60	cps
Cadmium	111-1	7740	7546	7534	7607	1.52	cps
Calcium	43-1	6619568	6533901	6586325	6579931	0.66	cps
Calcium	44-1	105990998	105752108	106227332	105990146	0.22	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	7675	7535	7525	7579	1.11	cps
Cobalt	59-2	2080	1940	2104	2041	4.33	cps
Copper	63-2	16115	15668	15551	15778	1.89	cps
Dysprosium	156-1	97	83	107	96	12.25	cps
Dysprosium	156-2	63	73	57	64	13.01	cps
Erbium	164-1	213	150	143	169	22.88	cps
Erbium	164-2	130	117	127	124	5.57	cps
Gadolinium	160-1	223	213	260	232	10.58	cps
Gadolinium	160-2	1240	1193	1343	1259	6.10	cps
Holmium	165-1	35062995	34694315	34459729	34739013	0.88	cps
Holmium	165-2	23852940	23743214	23477343	23691165	0.82	cps
Indium	115-1	30132222	29417813	29024501	29524845	1.90	cps
Indium	115-2	9895985	9821940	9782159	9833361	0.59	cps
Iron	56-2	53271	53297	52080	52883	1.31	cps
Iron	57-2	100933	102594	104144	102557	1.57	cps
Iron	54-2	5394	5164	5438	5332	2.76	cps
Krypton	83-1	340	273	367	327	14.72	cps

Reviewed By:Mohan
On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4832-01	Instrumnet Name :	P7
Client Sample ID :	E29S5	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 12:09:01	DataFile Name :	048SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	2974	2814	3014	2934	3.61	cps
Lead	207-1	2420	2410	2360	2397	1.34	cps
Lead	208-1	11562	11025	11425	11338	2.46	cps
Lithium	6-1	3437993	3368947	3342671	3383204	1.46	cps
Magnesium	24-2	28875573	28631580	28514788	28673980	0.64	cps
Manganese	55-2	82646	82830	82826	82767	0.13	cps
Molybdenum	94-1	39343	38885	39025	39084	0.60	cps
Molybdenum	95-1	66473	67917	67809	67400	1.19	cps
Molybdenum	96-1	71835	72174	72334	72114	0.35	cps
Molybdenum	97-1	42234	42094	42355	42228	0.31	cps
Molybdenum	98-1	108788	106692	108717	108066	1.10	cps
Neodymium	150-1	90	87	110	96	13.21	cps
Neodymium	150-2	60	70	53	61	13.73	cps
Nickel	60-2	3284	3357	3330	3324	1.12	cps
Phosphorus	31-2	21031	20037	20270	20446	2.54	cps
Potassium	39-2	5726210	5738182	5682588	5715660	0.51	cps
Rhodium	103-1	27846056	27396393	27157484	27466644	1.27	cps
Rhodium	103-2	15806659	15794799	15674703	15758720	0.46	cps
Scandium	45-1	17052446	16624766	16358458	16678557	2.10	cps
Scandium	45-2	1333724	1344396	1337171	1338430	0.41	cps
Selenium	82-1	1519	1475	1357	1450	5.79	cps
Selenium	77-2	53	77	63	64	18.17	cps
Selenium	78-2	657	700	783	713	9.02	cps
Silicon	28-1	74484414	72911157	73931737	73775769	1.08	cps
Silver	107-1	203	217	207	209	3.32	cps
Silver	109-1	127	127	113	122	6.30	cps
Sodium	23-2	115961892	114620032	115625365	115402429	0.60	cps
Strontium	86-1	1668747	1689353	1687166	1681756	0.67	cps
Strontium	88-1	14768475	14641354	14541056	14650295	0.78	cps
Sulfur	34-1	1608491	1585614	1581070	1591725	0.92	cps
Terbium	159-1	36122890	35360134	34952935	35478653	1.67	cps
Terbium	159-2	23274598	23212690	23028244	23171844	0.55	cps
Thallium	203-1	1133	1240	1157	1177	4.77	cps
Thallium	205-1	2767	2944	3040	2917	4.75	cps
Tin	118-1	7719	7385	7562	7555	2.21	cps
Titanium	47-1	1617	1787	1630	1678	5.63	cps

Reviewed By:Mohan
On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4832-01	Instrumnet Name :	P7
Client Sample ID :	E29S5	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 12:09:01	DataFile Name :	048SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	47685	48602	48598	48295	1.09	cps
Vanadium	51-2	5054	5194	5054	5101	1.59	cps
Yttrium	89-1	40778244	39954895	38968759	39900633	2.27	cps
Yttrium	89-2	9613175	9700163	9545016	9619451	0.81	cps
Zinc	66-2	21202	21566	20788	21185	1.84	cps
Zirconium	90-1	2927	3064	3154	3048	3.75	cps
Zirconium	91-1	703	630	673	669	5.51	cps

Reviewed By:Mohan
On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4832-02	Instrumnet Name :	P7
Client Sample ID :	E29S5D	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 12:12:12	DataFile Name :	049SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	1927	1939	1913	1927	0.67	cps
Antimony	121-1	5348	5418	5428	5398	0.81	cps
Arsenic	75-2	3711	3604	3540	3618	2.37	cps
Barium	135-1	389411	403983	400610	398001	1.92	cps
Barium	137-1	679384	696655	702147	692729	1.71	cps
Beryllium	9-1	67	56	89	70	24.12	cps
Bismuth	209-1	19730151	19573061	19677600	19660271	0.41	cps
Bismuth	209-2	15486251	15704548	15735579	15642126	0.87	cps
Bromine	81-1	48878	55965	60410	55084	10.56	cps
Bromine	81-2	8536	8559	8743	8613	1.31	cps
Cadmium	108-1	53	63	73	63	15.79	cps
Cadmium	106-1	10924	10521	10267	10571	3.14	cps
Cadmium	111-1	7850	7547	7399	7598	3.02	cps
Calcium	43-1	6349570	6557688	6559633	6488964	1.86	cps
Calcium	44-1	101358292	104622345	105761135	103913924	2.20	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	8126	7552	7612	7763	4.06	cps
Cobalt	59-2	2090	2187	2090	2122	2.63	cps
Copper	63-2	10697	10864	11308	10956	2.88	cps
Dysprosium	156-1	117	80	93	97	19.20	cps
Dysprosium	156-2	60	80	73	71	14.32	cps
Erbium	164-1	153	210	197	187	15.87	cps
Erbium	164-2	147	143	113	134	13.65	cps
Gadolinium	160-1	200	163	193	186	10.52	cps
Gadolinium	160-2	1297	1313	1280	1297	1.29	cps
Holmium	165-1	34377869	34173361	34160877	34237369	0.36	cps
Holmium	165-2	23401967	23271595	23507405	23393656	0.50	cps
Indium	115-1	28825419	28942739	29139542	28969234	0.55	cps
Indium	115-2	9707206	9816516	9980018	9834580	1.40	cps
Iron	56-2	45799	46241	46987	46342	1.29	cps
Iron	57-2	101584	103550	104101	103078	1.28	cps
Iron	54-2	5074	5071	4991	5045	0.94	cps
Krypton	83-1	290	323	310	308	5.45	cps

Reviewed By:Mohan
On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4832-02	Instrumnet Name :	P7
Client Sample ID :	E29S5D	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 12:12:12	DataFile Name :	049SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	4447	4571	4534	4517	1.40	cps
Lead	207-1	3577	3987	3731	3765	5.50	cps
Lead	208-1	16851	17738	17428	17339	2.60	cps
Lithium	6-1	3366534	3365570	3321416	3351173	0.77	cps
Magnesium	24-2	28816297	28538586	28918118	28757667	0.68	cps
Manganese	55-2	58159	57744	58265	58056	0.47	cps
Molybdenum	94-1	38073	38905	39069	38682	1.38	cps
Molybdenum	95-1	65445	66899	67387	66577	1.52	cps
Molybdenum	96-1	70556	72127	71865	71516	1.18	cps
Molybdenum	97-1	40523	42786	41358	41556	2.75	cps
Molybdenum	98-1	105323	109247	107458	107343	1.83	cps
Neodymium	150-1	120	93	113	109	12.75	cps
Neodymium	150-2	40	53	83	59	37.69	cps
Nickel	60-2	3217	3270	3150	3213	1.87	cps
Phosphorus	31-2	20951	20791	20891	20878	0.39	cps
Potassium	39-2	5742690	5737575	5785624	5755296	0.46	cps
Rhodium	103-1	27001475	27075076	27373551	27150034	0.73	cps
Rhodium	103-2	15654122	15537851	15786026	15659333	0.79	cps
Scandium	45-1	16211591	16430209	16440230	16360677	0.79	cps
Scandium	45-2	1343724	1348046	1338248	1343339	0.37	cps
Selenium	82-1	1520	1511	1454	1495	2.39	cps
Selenium	77-2	57	63	80	67	18.03	cps
Selenium	78-2	727	700	710	712	1.89	cps
Silicon	28-1	71461479	72459501	73279659	72400213	1.26	cps
Silver	107-1	240	210	177	209	15.17	cps
Silver	109-1	97	113	120	110	10.92	cps
Sodium	23-2	114649752	115555092	114720582	114975142	0.44	cps
Strontium	86-1	1669517	1697439	1715536	1694164	1.37	cps
Strontium	88-1	14467548	14646135	14801371	14638351	1.14	cps
Sulfur	34-1	1555602	1553103	1565517	1558074	0.42	cps
Terbium	159-1	34978639	35062328	35198236	35079734	0.32	cps
Terbium	159-2	23098375	23158162	23096968	23117835	0.15	cps
Thallium	203-1	1290	1287	1203	1260	3.90	cps
Thallium	205-1	3144	2780	2990	2971	6.14	cps
Tin	118-1	6835	6788	6945	6856	1.17	cps
Titanium	47-1	1693	1613	1677	1661	2.54	cps

Reviewed By:Mohan
On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4832-02	Instrumnet Name :	P7
Client Sample ID :	E29S5D	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 12:12:12	DataFile Name :	049SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	46826	48431	48214	47824	1.82	cps
Vanadium	51-2	5334	5034	5188	5185	2.89	cps
Yttrium	89-1	39717231	39461587	40003183	39727334	0.68	cps
Yttrium	89-2	9642388	9409384	9514026	9521933	1.23	cps
Zinc	66-2	15582	15471	15532	15528	0.36	cps
Zirconium	90-1	2720	2817	2954	2830	4.14	cps
Zirconium	91-1	633	577	610	607	4.69	cps

Reviewed By:Mohan
On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4832-01LX5	Instrumnet Name :	P7
Client Sample ID :	E29S5L	Dilution Factor :	5
Date & Time Acquired :	2024-11-20 12:15:25	DataFile Name :	050SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	1162	1219	1529	1303	15.16	cps
Antimony	121-1	1017	1103	1170	1097	7.01	cps
Arsenic	75-2	643	640	703	662	5.38	cps
Barium	135-1	72597	74035	75230	73954	1.78	cps
Barium	137-1	127476	130405	129958	129280	1.22	cps
Beryllium	9-1	33	44	56	44	25.01	cps
Bismuth	209-1	19800641	19979728	19753501	19844623	0.60	cps
Bismuth	209-2	16203640	15965759	16092858	16087419	0.74	cps
Bromine	81-1	27910	28167	28434	28170	0.93	cps
Bromine	81-2	2314	2190	2314	2272	3.13	cps
Cadmium	108-1	47	43	47	46	4.23	cps
Cadmium	106-1	10721	10354	10177	10417	2.66	cps
Cadmium	111-1	7572	7267	7171	7337	2.85	cps
Calcium	43-1	1188378	1214643	1213621	1205548	1.23	cps
Calcium	44-1	19123680	19677536	19611441	19470885	1.55	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	6558	6658	6715	6644	1.19	cps
Cobalt	59-2	593	563	587	581	2.71	cps
Copper	63-2	15228	14817	15475	15173	2.19	cps
Dysprosium	156-1	23	57	60	47	43.45	cps
Dysprosium	156-2	37	17	13	22	56.80	cps
Erbium	164-1	173	133	153	153	13.04	cps
Erbium	164-2	100	97	107	101	5.04	cps
Gadolinium	160-1	157	190	147	164	13.80	cps
Gadolinium	160-2	1177	1223	1347	1249	7.03	cps
Holmium	165-1	33821686	33472339	33435035	33576353	0.64	cps
Holmium	165-2	23279106	23455858	23507557	23414174	0.51	cps
Indium	115-1	28854050	29155801	28617228	28875693	0.93	cps
Indium	115-2	9812091	9660110	9661059	9711087	0.90	cps
Iron	56-2	46697	42978	44375	44683	4.20	cps
Iron	57-2	20007	20554	20825	20462	2.04	cps
Iron	54-2	5284	4891	4934	5036	4.28	cps
Krypton	83-1	320	357	307	328	7.90	cps

Reviewed By:Mohan
On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4832-01LX5	Instrumnet Name :	P7
Client Sample ID :	E29S5L	Dilution Factor :	5
Date & Time Acquired :	2024-11-20 12:15:25	DataFile Name :	050SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	2770	2744	2717	2744	0.97	cps
Lead	207-1	2214	2257	2204	2225	1.27	cps
Lead	208-1	10505	10722	10518	10582	1.15	cps
Lithium	6-1	3356610	3379033	3427062	3387568	1.06	cps
Magnesium	24-2	5248065	5194373	5249691	5230710	0.60	cps
Manganese	55-2	27689	27959	27866	27838	0.49	cps
Molybdenum	94-1	7652	7469	7986	7702	3.40	cps
Molybdenum	95-1	11922	12659	12542	12374	3.20	cps
Molybdenum	96-1	13149	13286	14107	13514	3.83	cps
Molybdenum	97-1	7172	7759	8042	7658	5.80	cps
Molybdenum	98-1	19650	20525	20124	20099	2.18	cps
Neodymium	150-1	40	33	20	31	32.73	cps
Neodymium	150-2	17	17	10	14	26.66	cps
Nickel	60-2	3854	3544	3447	3615	5.88	cps
Phosphorus	31-2	4141	3914	4044	4033	2.82	cps
Potassium	39-2	1142223	1128206	1130270	1133566	0.67	cps
Rhodium	103-1	26955665	27341302	27103533	27133500	0.72	cps
Rhodium	103-2	15852574	16079606	16003321	15978500	0.72	cps
Scandium	45-1	15974138	16022164	16023047	16006450	0.17	cps
Scandium	45-2	1317697	1305353	1339339	1320797	1.30	cps
Selenium	82-1	739	613	691	681	9.40	cps
Selenium	77-2	10	10	30	17	69.28	cps
Selenium	78-2	530	527	517	524	1.32	cps
Silicon	28-1	14149251	14514362	14824384	14495999	2.33	cps
Silver	107-1	193	227	177	199	12.80	cps
Silver	109-1	127	137	103	122	13.99	cps
Sodium	23-2	21652714	21118867	21446183	21405921	1.26	cps
Strontium	86-1	295376	299654	304157	299729	1.46	cps
Strontium	88-1	2658535	2730366	2746252	2711718	1.72	cps
Sulfur	34-1	509499	510869	508938	509768	0.19	cps
Terbium	159-1	34540350	34818020	34378844	34579072	0.64	cps
Terbium	159-2	23185558	22972927	22888017	23015501	0.67	cps
Thallium	203-1	613	627	710	650	8.06	cps
Thallium	205-1	1407	1363	1483	1418	4.29	cps
Tin	118-1	7565	7806	7922	7764	2.34	cps
Titanium	47-1	490	573	527	530	7.88	cps

Reviewed By:Mohan
On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4832-01LX5	Instrumnet Name :	P7
Client Sample ID :	E29S5L	Dilution Factor :	5
Date & Time Acquired :	2024-11-20 12:15:25	DataFile Name :	050SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	8893	8990	9297	9060	2.33	cps
Vanadium	51-2	1040	960	1087	1029	6.23	cps
Yttrium	89-1	38641509	38910443	38594574	38715509	0.44	cps
Yttrium	89-2	9340084	9490209	9485596	9438630	0.90	cps
Zinc	66-2	15682	15538	15899	15706	1.16	cps
Zirconium	90-1	2430	2444	2497	2457	1.44	cps
Zirconium	91-1	507	510	580	532	7.78	cps

Reviewed By:Mohan
On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4832-03	Instrumnet Name :	P7
Client Sample ID :	E29S5S	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 12:18:35	DataFile Name :	051SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	901643	899314	897500	899486	0.23	cps
Antimony	121-1	2617821	2604342	2597547	2606570	0.40	cps
Arsenic	75-2	53673	53238	53406	53439	0.41	cps
Barium	135-1	12747576	12957234	12821202	12842004	0.83	cps
Barium	137-1	21935368	22161074	22133418	22076620	0.56	cps
Beryllium	9-1	124451	124842	125552	124948	0.45	cps
Bismuth	209-1	19639785	20120833	19940726	19900448	1.22	cps
Bismuth	209-2	15946113	15708044	15763737	15805965	0.79	cps
Bromine	81-1	51744	60687	64537	58989	11.13	cps
Bromine	81-2	9490	9216	9036	9247	2.47	cps
Cadmium	108-1	21232	22060	21750	21681	1.93	cps
Cadmium	106-1	41018	40583	40707	40769	0.55	cps
Cadmium	111-1	330828	341717	341789	338112	1.87	cps
Calcium	43-1	6263700	6396335	6443397	6367811	1.46	cps
Calcium	44-1	101583008	103242088	103066075	102630391	0.89	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	2089737	2047280	2037154	2058057	1.36	cps
Cobalt	59-2	8131815	7994506	8095381	8073901	0.88	cps
Copper	63-2	2884386	2847465	2846872	2859575	0.75	cps
Dysprosium	156-1	230	147	173	183	23.21	cps
Dysprosium	156-2	477	520	483	493	4.73	cps
Erbium	164-1	197	250	170	206	19.82	cps
Erbium	164-2	123	147	140	137	8.79	cps
Gadolinium	160-1	197	183	163	181	9.26	cps
Gadolinium	160-2	1297	1170	1203	1223	5.37	cps
Holmium	165-1	33981835	35091074	35105829	34726246	1.86	cps
Holmium	165-2	23659966	23379168	23705812	23581649	0.75	cps
Indium	115-1	29239583	29559704	29225859	29341715	0.64	cps
Indium	115-2	9670024	9815894	9757472	9747797	0.75	cps
Iron	56-2	9399113	9442002	9326430	9389182	0.62	cps
Iron	57-2	331825	333989	331270	332361	0.43	cps
Iron	54-2	580418	578573	581972	580321	0.29	cps
Krypton	83-1	273	400	347	340	18.70	cps

Reviewed By:Mohan
On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4832-03	Instrumnet Name :	P7
Client Sample ID :	E29S5S	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 12:18:35	DataFile Name :	051SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	355856	361198	365854	360969	1.39	cps
Lead	207-1	304595	312855	311280	309577	1.42	cps
Lead	208-1	1407651	1436729	1439576	1427985	1.24	cps
Lithium	6-1	3394022	3356393	3388200	3379538	0.60	cps
Magnesium	24-2	28172339	27761832	27946629	27960267	0.74	cps
Manganese	55-2	3843125	3813146	3864762	3840344	0.67	cps
Molybdenum	94-1	38761	38801	38781	38781	0.05	cps
Molybdenum	95-1	64856	66353	66822	66010	1.55	cps
Molybdenum	96-1	69169	71504	71122	70598	1.77	cps
Molybdenum	97-1	40941	41332	42438	41570	1.87	cps
Molybdenum	98-1	105138	107750	107861	106916	1.44	cps
Neodymium	150-1	647	640	607	631	3.40	cps
Neodymium	150-2	157	130	137	141	9.84	cps
Nickel	60-2	2139364	2090926	2093796	2108029	1.29	cps
Phosphorus	31-2	19886	19993	19816	19899	0.45	cps
Potassium	39-2	5512958	5576893	5570536	5553462	0.63	cps
Rhodium	103-1	26916100	27385165	26987770	27096345	0.93	cps
Rhodium	103-2	15602207	15721618	15727706	15683844	0.45	cps
Scandium	45-1	16237475	16435549	16183619	16285548	0.81	cps
Scandium	45-2	1340891	1308967	1310532	1320130	1.36	cps
Selenium	82-1	41006	41321	41757	41362	0.91	cps
Selenium	77-2	3841	3967	3687	3832	3.66	cps
Selenium	78-2	13316	13289	13173	13259	0.58	cps
Silicon	28-1	71999911	73277482	72759521	72678971	0.88	cps
Silver	107-1	1622595	1653992	1654679	1643755	1.12	cps
Silver	109-1	1532864	1558514	1549933	1547104	0.84	cps
Sodium	23-2	113513698	112368192	114247552	113376481	0.84	cps
Strontium	86-1	1639999	1662684	1692033	1664905	1.57	cps
Strontium	88-1	14338364	14413131	14571403	14440966	0.82	cps
Sulfur	34-1	1572901	1578032	1564567	1571834	0.43	cps
Terbium	159-1	35355664	35929110	35681312	35655362	0.81	cps
Terbium	159-2	23286634	23329240	23460228	23358700	0.39	cps
Thallium	203-1	1085269	1115515	1109264	1103349	1.45	cps
Thallium	205-1	2681579	2694205	2742800	2706195	1.19	cps
Tin	118-1	8719	8386	8389	8498	2.25	cps
Titanium	47-1	1797	1807	1870	1825	2.18	cps

Reviewed By:Mohan
On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4832-03	Instrumnet Name :	P7
Client Sample ID :	E29S5S	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 12:18:35	DataFile Name :	051SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	47658	48756	48612	48342	1.23	cps
Vanadium	51-2	4477593	4410296	4356054	4414648	1.38	cps
Yttrium	89-1	39609654	39934912	39626537	39723701	0.46	cps
Yttrium	89-2	9520466	9573382	9483069	9525639	0.48	cps
Zinc	66-2	946021	943603	950522	946715	0.37	cps
Zirconium	90-1	2647	2904	2934	2828	5.57	cps
Zirconium	91-1	780	720	783	761	4.68	cps

Reviewed By:Mohan
On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4832-04	Instrumnet Name :	P7
Client Sample ID :	E29T3	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 12:21:34	DataFile Name :	052SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	989	1165	1147	1100	8.78	cps
Antimony	121-1	2564	2387	2324	2425	5.13	cps
Arsenic	75-2	313	347	290	317	8.99	cps
Barium	135-1	677180	687186	689853	684740	0.98	cps
Barium	137-1	1167452	1194770	1203362	1188528	1.58	cps
Beryllium	9-1	89	56	61	69	26.06	cps
Bismuth	209-1	20344604	19931236	19682053	19985964	1.67	cps
Bismuth	209-2	15883219	15756224	15615077	15751506	0.85	cps
Bromine	81-1	56137	64386	67386	62636	9.30	cps
Bromine	81-2	9573	9773	9493	9613	1.50	cps
Cadmium	108-1	50	43	57	50	13.34	cps
Cadmium	106-1	11281	10377	10327	10662	5.04	cps
Cadmium	111-1	8102	7460	7399	7654	5.08	cps
Calcium	43-1	6078451	6187501	6100199	6122051	0.94	cps
Calcium	44-1	97519905	99110909	98126769	98252527	0.82	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	5531	5328	5438	5432	1.87	cps
Cobalt	59-2	23839	23949	24146	23978	0.65	cps
Copper	63-2	10794	10370	10560	10575	2.01	cps
Dysprosium	156-1	163	167	137	156	10.57	cps
Dysprosium	156-2	107	150	80	112	31.48	cps
Erbium	164-1	317	227	343	296	20.68	cps
Erbium	164-2	250	240	193	228	13.28	cps
Gadolinium	160-1	237	267	203	236	13.45	cps
Gadolinium	160-2	1340	1233	1187	1253	6.27	cps
Holmium	165-1	35966849	34603460	34630932	35067080	2.22	cps
Holmium	165-2	23470423	22990683	23186040	23215715	1.04	cps
Indium	115-1	30061095	29407158	29158125	29542126	1.58	cps
Indium	115-2	9738138	9619730	9599738	9652535	0.77	cps
Iron	56-2	152659	151564	149881	151368	0.92	cps
Iron	57-2	96963	99430	99923	98772	1.61	cps
Iron	54-2	10477	10804	10500	10594	1.72	cps
Krypton	83-1	360	263	300	308	15.86	cps

Reviewed By:Mohan
On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4832-04	Instrumnet Name :	P7
Client Sample ID :	E29T3	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 12:21:34	DataFile Name :	052SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	2507	2457	2484	2482	1.01	cps
Lead	207-1	2057	2124	2270	2150	5.08	cps
Lead	208-1	9605	9788	9658	9684	0.97	cps
Lithium	6-1	3455882	3429032	3410656	3431857	0.66	cps
Magnesium	24-2	25778284	25689991	25836442	25768239	0.29	cps
Manganese	55-2	4671082	4701881	4672460	4681808	0.37	cps
Molybdenum	94-1	29506	29927	30435	29956	1.55	cps
Molybdenum	95-1	50269	51460	51617	51116	1.44	cps
Molybdenum	96-1	53283	56231	57298	55604	3.74	cps
Molybdenum	97-1	31671	32182	32032	31962	0.82	cps
Molybdenum	98-1	80671	83718	83473	82621	2.05	cps
Neodymium	150-1	187	180	180	182	2.11	cps
Neodymium	150-2	93	107	70	90	20.62	cps
Nickel	60-2	11324	11902	11902	11709	2.85	cps
Phosphorus	31-2	487	477	557	507	8.60	cps
Potassium	39-2	6752873	6688938	6638013	6693275	0.86	cps
Rhodium	103-1	28092247	27196329	27349760	27546112	1.74	cps
Rhodium	103-2	15743830	15686475	15517868	15649391	0.75	cps
Scandium	45-1	16713391	16143076	16159151	16338539	1.99	cps
Scandium	45-2	1322919	1342892	1335113	1333641	0.75	cps
Selenium	82-1	708	693	715	705	1.55	cps
Selenium	77-2	10	20	13	14	35.26	cps
Selenium	78-2	453	510	507	490	6.49	cps
Silicon	28-1	65013659	67341292	66736322	66363758	1.82	cps
Silver	107-1	910	753	613	759	19.56	cps
Silver	109-1	707	547	440	564	23.78	cps
Sodium	23-2	65411802	64700969	65158517	65090430	0.55	cps
Strontium	86-1	1001714	1028796	1035035	1021848	1.73	cps
Strontium	88-1	9025252	9310460	9281859	9205857	1.71	cps
Sulfur	34-1	1515751	1562283	1559528	1545854	1.69	cps
Terbium	159-1	35695456	35327814	35333484	35452252	0.59	cps
Terbium	159-2	23058945	22995421	22546671	22867012	1.22	cps
Thallium	203-1	2654	2570	2380	2535	5.53	cps
Thallium	205-1	5895	5631	5264	5597	5.66	cps
Tin	118-1	6912	6948	7058	6973	1.10	cps
Titanium	47-1	863	923	857	881	4.17	cps

Reviewed By:Mohan
On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4832-04	Instrumnet Name :	P7
Client Sample ID :	E29T3	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 12:21:34	DataFile Name :	052SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	55161	55559	55770	55496	0.56	cps
Vanadium	51-2	777	863	757	799	7.10	cps
Yttrium	89-1	40709339	39459674	39279960	39816324	1.96	cps
Yttrium	89-2	9411095	9510147	9405422	9442221	0.62	cps
Zinc	66-2	11418	11751	11258	11476	2.19	cps
Zirconium	90-1	2774	2637	2784	2731	3.00	cps
Zirconium	91-1	550	620	603	591	6.19	cps

Reviewed By:Mohan
On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4832-05	Instrumnet Name :	P7
Client Sample ID :	E29T5	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 12:24:57	DataFile Name :	053SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	1254	1117	1284	1218	7.29	cps
Antimony	121-1	397	420	377	398	5.45	cps
Arsenic	75-2	3657	3634	3417	3569	3.71	cps
Barium	135-1	628237	636088	636390	633572	0.73	cps
Barium	137-1	1094239	1099939	1106603	1100260	0.56	cps
Beryllium	9-1	50	94	44	63	43.52	cps
Bismuth	209-1	19759516	19873816	19721410	19784914	0.40	cps
Bismuth	209-2	16088321	15750792	15727961	15855691	1.27	cps
Bromine	81-1	61334	70269	74858	68820	9.99	cps
Bromine	81-2	11174	10961	11201	11112	1.18	cps
Cadmium	108-1	47	23	47	39	34.65	cps
Cadmium	106-1	10574	10324	10407	10435	1.22	cps
Cadmium	111-1	7412	7250	7302	7322	1.13	cps
Calcium	43-1	7844271	7875042	7902734	7874016	0.37	cps
Calcium	44-1	126254211	128508418	128125885	127629505	0.95	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	5094	5148	5268	5170	1.72	cps
Cobalt	59-2	4571	4511	4487	4523	0.95	cps
Copper	63-2	3897	3887	4074	3953	2.66	cps
Dysprosium	156-1	80	113	93	96	17.56	cps
Dysprosium	156-2	87	93	53	78	27.56	cps
Erbium	164-1	193	230	280	234	18.56	cps
Erbium	164-2	150	153	203	169	17.69	cps
Gadolinium	160-1	223	203	213	213	4.69	cps
Gadolinium	160-2	1323	1127	1280	1243	8.31	cps
Holmium	165-1	34709736	34202415	34697709	34536620	0.84	cps
Holmium	165-2	23681220	23340470	23289286	23436992	0.91	cps
Indium	115-1	29330397	28994817	29298073	29207762	0.63	cps
Indium	115-2	9680806	9755368	9602523	9679566	0.79	cps
Iron	56-2	15201269	15144027	14969863	15105053	0.80	cps
Iron	57-2	492203	495165	494078	493815	0.30	cps
Iron	54-2	830692	822446	818500	823879	0.76	cps
Krypton	83-1	330	367	397	364	9.16	cps

Reviewed By:Mohan
On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4832-05	Instrumnet Name :	P7
Client Sample ID :	E29T5	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 12:24:57	DataFile Name :	053SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	2337	2450	2220	2336	4.92	cps
Lead	207-1	1977	2044	2024	2015	1.70	cps
Lead	208-1	9221	9601	9278	9367	2.19	cps
Lithium	6-1	3440861	3395635	3315150	3383882	1.88	cps
Magnesium	24-2	45219393	45580316	44947643	45249117	0.70	cps
Manganese	55-2	734348	743099	735659	737702	0.64	cps
Molybdenum	94-1	24143	24157	24180	24160	0.08	cps
Molybdenum	95-1	40365	41131	40984	40827	0.99	cps
Molybdenum	96-1	43006	44374	44548	43976	1.92	cps
Molybdenum	97-1	25369	25946	25966	25761	1.32	cps
Molybdenum	98-1	64515	66443	64970	65310	1.54	cps
Neodymium	150-1	123	110	133	122	9.58	cps
Neodymium	150-2	43	43	27	38	25.46	cps
Nickel	60-2	12459	12622	12946	12675	1.96	cps
Phosphorus	31-2	487	477	413	459	8.67	cps
Potassium	39-2	2706526	2726070	2674120	2702239	0.97	cps
Rhodium	103-1	27189627	27059653	26912310	27053863	0.51	cps
Rhodium	103-2	15547116	15786008	15494709	15609277	0.99	cps
Scandium	45-1	16451161	16303369	16297034	16350521	0.53	cps
Scandium	45-2	1321663	1321687	1300406	1314585	0.93	cps
Selenium	82-1	522	509	381	471	16.52	cps
Selenium	77-2	0	0	7	2	173.21	cps
Selenium	78-2	457	433	410	433	5.38	cps
Silicon	28-1	86657299	87520185	87563982	87247155	0.59	cps
Silver	107-1	320	267	303	297	9.20	cps
Silver	109-1	217	253	250	240	8.45	cps
Sodium	23-2	84461464	85160055	84212182	84611234	0.58	cps
Strontium	86-1	988433	998966	998201	995200	0.59	cps
Strontium	88-1	8966707	8947449	8970565	8961574	0.14	cps
Sulfur	34-1	2396292	2413349	2441595	2417079	0.95	cps
Terbium	159-1	36035749	35547961	35240357	35608022	1.13	cps
Terbium	159-2	23234453	23084931	23093870	23137751	0.36	cps
Thallium	203-1	857	913	773	848	8.31	cps
Thallium	205-1	1900	2094	2020	2005	4.87	cps
Tin	118-1	6088	6191	6161	6147	0.87	cps
Titanium	47-1	983	1160	1127	1090	8.61	cps

Reviewed By:Mohan
On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4832-05	Instrumnet Name :	P7
Client Sample ID :	E29T5	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 12:24:57	DataFile Name :	053SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	80693	82178	82309	81727	1.10	cps
Vanadium	51-2	217	227	243	229	5.89	cps
Yttrium	89-1	39856095	39217624	39521423	39531714	0.81	cps
Yttrium	89-2	9507587	9487731	9566780	9520699	0.43	cps
Zinc	66-2	10364	10657	10067	10363	2.85	cps
Zirconium	90-1	3640	3514	3771	3642	3.53	cps
Zirconium	91-1	717	800	787	768	5.83	cps

Reviewed By:Mohan
On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4832-06	Instrumnet Name :	P7
Client Sample ID :	E29R7	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 12:28:08	DataFile Name :	054SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	1778	1818	1675	1757	4.20	cps
Antimony	121-1	247	223	247	239	5.64	cps
Arsenic	75-2	537	517	637	563	11.41	cps
Barium	135-1	339005	344171	342940	342039	0.79	cps
Barium	137-1	588819	591983	594461	591755	0.48	cps
Beryllium	9-1	56	72	33	54	36.33	cps
Bismuth	209-1	20208826	20054256	19968468	20077184	0.61	cps
Bismuth	209-2	15954895	15513639	14236552	15235029	5.86	cps
Bromine	81-1	44865	46710	46486	46020	2.19	cps
Bromine	81-2	5511	5931	5785	5742	3.71	cps
Cadmium	108-1	47	43	40	43	7.70	cps
Cadmium	106-1	10784	10747	10354	10628	2.24	cps
Cadmium	111-1	7610	7553	7290	7484	2.28	cps
Calcium	43-1	6013856	6145032	6103725	6087538	1.10	cps
Calcium	44-1	96789545	98017922	96918432	97241966	0.69	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	5471	5294	5181	5315	2.75	cps
Cobalt	59-2	9436	9403	9787	9542	2.23	cps
Copper	63-2	3270	3294	3387	3317	1.86	cps
Dysprosium	156-1	57	67	80	68	17.27	cps
Dysprosium	156-2	43	70	67	60	24.22	cps
Erbium	164-1	240	243	210	231	7.95	cps
Erbium	164-2	157	163	143	154	6.59	cps
Gadolinium	160-1	167	173	220	187	15.57	cps
Gadolinium	160-2	1300	1097	1133	1177	9.21	cps
Holmium	165-1	34639205	34400766	34253274	34431082	0.57	cps
Holmium	165-2	23609677	22483836	21081199	22391571	5.66	cps
Indium	115-1	29589916	29309971	29218419	29372769	0.66	cps
Indium	115-2	9738094	9542287	8488884	9256422	7.26	cps
Iron	56-2	1961157	1991973	1993021	1982051	0.91	cps
Iron	57-2	139581	140654	145181	141805	2.10	cps
Iron	54-2	109944	110283	110801	110343	0.39	cps
Krypton	83-1	317	290	303	303	4.39	cps

Reviewed By:Mohan
On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4832-06	Instrumnet Name :	P7
Client Sample ID :	E29R7	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 12:28:08	DataFile Name :	054SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	4427	4404	4761	4531	4.41	cps
Lead	207-1	3594	3571	3837	3667	4.03	cps
Lead	208-1	17208	17305	17675	17396	1.42	cps
Lithium	6-1	3418654	3415580	3366804	3400346	0.86	cps
Magnesium	24-2	36680147	36988659	37206223	36958343	0.72	cps
Manganese	55-2	2685724	2739553	2726459	2717245	1.03	cps
Molybdenum	94-1	48413	49319	49413	49048	1.13	cps
Molybdenum	95-1	83312	83939	83309	83520	0.43	cps
Molybdenum	96-1	90145	91504	89797	90482	1.00	cps
Molybdenum	97-1	51724	52872	53410	52669	1.63	cps
Molybdenum	98-1	135343	135010	136211	135522	0.46	cps
Neodymium	150-1	93	103	83	93	10.71	cps
Neodymium	150-2	43	43	43	43	0.00	cps
Nickel	60-2	2017	2424	2274	2238	9.19	cps
Phosphorus	31-2	433	480	447	453	5.30	cps
Potassium	39-2	1566880	1579300	1585850	1577343	0.61	cps
Rhodium	103-1	27020088	27025246	26729632	26924989	0.63	cps
Rhodium	103-2	15946580	14937514	13638992	14841029	7.79	cps
Scandium	45-1	16231463	15988180	16066028	16095224	0.77	cps
Scandium	45-2	1315151	1292041	1130526	1245906	8.07	cps
Selenium	82-1	546	579	457	528	11.96	cps
Selenium	77-2	0	3	0	1	173.21	cps
Selenium	78-2	437	400	477	438	8.76	cps
Silicon	28-1	78157891	77392566	78077262	77875906	0.54	cps
Silver	107-1	253	310	257	273	11.63	cps
Silver	109-1	117	227	170	171	32.15	cps
Sodium	23-2	20480187	21052030	21198015	20910077	1.81	cps
Strontium	86-1	22459074	22599347	22499368	22519263	0.32	cps
Strontium	88-1	196245604	195408090	195252384	195635359	0.27	cps
Sulfur	34-1	1611252	1614433	1602101	1609262	0.40	cps
Terbium	159-1	35497957	35665974	34946890	35370274	1.06	cps
Terbium	159-2	22712734	22869653	20333200	21971862	6.47	cps
Thallium	203-1	770	813	747	777	4.36	cps
Thallium	205-1	1967	1913	1783	1888	5.00	cps
Tin	118-1	6562	6542	6708	6604	1.38	cps
Titanium	47-1	1117	1097	4674	2296	89.72	cps

Reviewed By:Mohan
On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4832-06	Instrumnet Name :	P7
Client Sample ID :	E29R7	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 12:28:08	DataFile Name :	054SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	94993	96244	97289	96175	1.20	cps
Vanadium	51-2	247	177	257	227	19.23	cps
Yttrium	89-1	39456839	39311376	39202694	39323637	0.32	cps
Yttrium	89-2	9494529	9092196	8192814	8926513	7.47	cps
Zinc	66-2	14460	14067	14420	14316	1.51	cps
Zirconium	90-1	3781	4084	4071	3978	4.31	cps
Zirconium	91-1	817	843	963	874	8.93	cps

Reviewed By:Mohan
On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4832-07	Instrumnet Name :	P7
Client Sample ID :	E29S1	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 12:31:18	DataFile Name :	055SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	1090	1134	1077	1101	2.73	cps
Antimony	121-1	1143	1243	1167	1185	4.42	cps
Arsenic	75-2	660	707	647	671	4.69	cps
Barium	135-1	1133533	1146591	1144398	1141507	0.61	cps
Barium	137-1	2018893	2035062	2008286	2020747	0.67	cps
Beryllium	9-1	78	78	50	69	23.41	cps
Bismuth	209-1	19966658	20360213	20236652	20187841	1.00	cps
Bismuth	209-2	16008361	16197022	16226409	16143931	0.73	cps
Bromine	81-1	41211	45303	45670	44061	5.62	cps
Bromine	81-2	5885	5634	5641	5720	2.49	cps
Cadmium	108-1	63	37	20	40	54.64	cps
Cadmium	106-1	10881	10641	10317	10613	2.67	cps
Cadmium	111-1	7662	7546	7301	7503	2.46	cps
Calcium	43-1	6476492	6454541	6429322	6453451	0.37	cps
Calcium	44-1	103753925	103500722	102807322	103353990	0.47	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	6291	6105	6335	6244	1.96	cps
Cobalt	59-2	3697	3620	3727	3682	1.49	cps
Copper	63-2	11635	11955	11414	11668	2.33	cps
Dysprosium	156-1	113	87	130	110	19.87	cps
Dysprosium	156-2	100	110	73	94	20.07	cps
Erbium	164-1	207	297	233	246	18.83	cps
Erbium	164-2	127	197	123	149	27.81	cps
Gadolinium	160-1	150	190	223	188	19.55	cps
Gadolinium	160-2	1203	1213	1250	1222	2.01	cps
Holmium	165-1	34541377	34306157	34161050	34336195	0.56	cps
Holmium	165-2	23457860	23658746	23481707	23532771	0.47	cps
Indium	115-1	29235671	29391227	29164291	29263730	0.40	cps
Indium	115-2	9772091	9811521	9618161	9733924	1.05	cps
Iron	56-2	936848	930156	927114	931373	0.53	cps
Iron	57-2	121557	121732	123600	122296	0.93	cps
Iron	54-2	53461	53689	52879	53343	0.78	cps
Krypton	83-1	297	287	323	302	6.27	cps

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4832-07	Instrumnet Name :	P7
Client Sample ID :	E29S1	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 12:31:18	DataFile Name :	055SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	2234	2544	2574	2450	7.68	cps
Lead	207-1	2027	2217	1843	2029	9.20	cps
Lead	208-1	8995	9545	9565	9368	3.45	cps
Lithium	6-1	3405602	3491314	3415266	3437394	1.37	cps
Magnesium	24-2	34285364	34308528	34662530	34418808	0.61	cps
Manganese	55-2	846825	841019	844913	844252	0.35	cps
Molybdenum	94-1	21476	21589	21846	21637	0.88	cps
Molybdenum	95-1	36683	36930	36676	36763	0.39	cps
Molybdenum	96-1	38427	40061	39426	39305	2.10	cps
Molybdenum	97-1	22845	22841	23028	22905	0.47	cps
Molybdenum	98-1	58838	59196	59119	59051	0.32	cps
Neodymium	150-1	200	127	153	160	23.20	cps
Neodymium	150-2	77	60	53	63	18.98	cps
Nickel	60-2	4824	4904	5178	4969	3.73	cps
Phosphorus	31-2	417	440	387	414	6.45	cps
Potassium	39-2	1873029	1884370	1864800	1874066	0.52	cps
Rhodium	103-1	27444116	26894555	26916503	27085058	1.15	cps
Rhodium	103-2	15731321	15725004	15543501	15666609	0.68	cps
Scandium	45-1	16152284	15955233	16255329	16120949	0.95	cps
Scandium	45-2	1344084	1331138	1303976	1326399	1.54	cps
Selenium	82-1	944	948	825	906	7.73	cps
Selenium	77-2	33	40	27	33	20.00	cps
Selenium	78-2	497	537	533	522	4.25	cps
Silicon	28-1	62017331	62029186	62090154	62045557	0.06	cps
Silver	107-1	243	250	280	258	7.58	cps
Silver	109-1	163	133	180	159	14.88	cps
Sodium	23-2	22234225	22319306	22425766	22326432	0.43	cps
Strontium	86-1	1982715	1984780	1995811	1987769	0.35	cps
Strontium	88-1	17030835	17139503	17151246	17107195	0.39	cps
Sulfur	34-1	1222373	1198798	1214858	1212009	0.99	cps
Terbium	159-1	35495549	35361674	35329111	35395444	0.25	cps
Terbium	159-2	23356465	23005468	23342551	23234828	0.86	cps
Thallium	203-1	1040	973	1157	1057	8.78	cps
Thallium	205-1	2574	2447	2460	2494	2.79	cps
Tin	118-1	6261	6625	6488	6458	2.84	cps
Titanium	47-1	907	860	857	874	3.20	cps

Reviewed By:Mohan
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Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4832-07	Instrumnet Name :	P7
Client Sample ID :	E29S1	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 12:31:18	DataFile Name :	055SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	91784	92174	94295	92751	1.46	cps
Vanadium	51-2	430	477	473	460	5.66	cps
Yttrium	89-1	38587748	38990402	39359875	38979342	0.99	cps
Yttrium	89-2	9466066	9488823	9355587	9436825	0.76	cps
Zinc	66-2	11952	12048	12098	12033	0.62	cps
Zirconium	90-1	2660	2617	2597	2625	1.23	cps
Zirconium	91-1	560	560	590	570	3.04	cps

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Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4832-08	Instrumnet Name :	P7
Client Sample ID :	E29S3	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 12:34:27	DataFile Name :	056SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	1402	1477	1504	1461	3.63	cps
Antimony	121-1	203	237	210	217	8.14	cps
Arsenic	75-2	563	640	480	561	14.26	cps
Barium	135-1	330485	336716	340458	335886	1.50	cps
Barium	137-1	573564	582643	585190	580465	1.05	cps
Beryllium	9-1	28	61	33	41	43.83	cps
Bismuth	209-1	19000961	20128991	20458800	19862917	3.85	cps
Bismuth	209-2	16098186	16454966	16108113	16220421	1.25	cps
Bromine	81-1	41933	46560	47978	45490	6.95	cps
Bromine	81-2	5918	6091	6225	6078	2.53	cps
Cadmium	108-1	47	20	60	42	48.24	cps
Cadmium	106-1	10044	10784	10447	10425	3.56	cps
Cadmium	111-1	7038	7592	7328	7319	3.78	cps
Calcium	43-1	5981680	5915423	6157149	6018084	2.08	cps
Calcium	44-1	94424489	95245689	96638349	95436175	1.17	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	5821	5194	5498	5504	5.70	cps
Cobalt	59-2	8949	9130	9059	9046	1.00	cps
Copper	63-2	4741	4794	4644	4726	1.61	cps
Dysprosium	156-1	77	83	97	86	11.90	cps
Dysprosium	156-2	50	37	70	52	32.12	cps
Erbium	164-1	230	190	157	192	19.10	cps
Erbium	164-2	160	143	143	149	6.46	cps
Gadolinium	160-1	210	207	227	214	5.00	cps
Gadolinium	160-2	1250	1087	1370	1236	11.51	cps
Holmium	165-1	32499787	34212539	34779644	33830657	3.51	cps
Holmium	165-2	23860757	23722111	23242334	23608401	1.37	cps
Indium	115-1	27340545	29388333	29375180	28701353	4.11	cps
Indium	115-2	9855864	9798962	9743698	9799508	0.57	cps
Iron	56-2	1946575	1923449	1950299	1940108	0.75	cps
Iron	57-2	136517	137421	138901	137613	0.87	cps
Iron	54-2	108782	107689	106588	107686	1.02	cps
Krypton	83-1	317	340	353	337	5.51	cps

Reviewed By:Mohan
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Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4832-08	Instrumnet Name :	P7
Client Sample ID :	E29S3	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 12:34:27	DataFile Name :	056SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	2237	2230	2290	2252	1.46	cps
Lead	207-1	1937	1933	1927	1932	0.26	cps
Lead	208-1	8791	9055	8958	8935	1.49	cps
Lithium	6-1	3380613	3500935	3630639	3504062	3.57	cps
Magnesium	24-2	36866973	36587180	36442191	36632115	0.59	cps
Manganese	55-2	2708073	2702114	2699684	2703290	0.16	cps
Molybdenum	94-1	47778	47911	47761	47817	0.17	cps
Molybdenum	95-1	80620	82668	82279	81856	1.33	cps
Molybdenum	96-1	87382	88787	88277	88149	0.81	cps
Molybdenum	97-1	51005	52009	52220	51745	1.25	cps
Molybdenum	98-1	130107	132162	132979	131749	1.12	cps
Neodymium	150-1	133	147	80	120	29.40	cps
Neodymium	150-2	50	37	50	46	16.89	cps
Nickel	60-2	2580	2514	2454	2516	2.52	cps
Phosphorus	31-2	393	433	433	420	5.50	cps
Potassium	39-2	1567473	1495470	1525905	1529616	2.36	cps
Rhodium	103-1	25309925	26771073	27195556	26425518	3.74	cps
Rhodium	103-2	15805992	15957826	15742269	15835362	0.70	cps
Scandium	45-1	15180301	16046884	16113423	15780203	3.30	cps
Scandium	45-2	1336166	1328005	1300692	1321621	1.41	cps
Selenium	82-1	599	518	538	552	7.68	cps
Selenium	77-2	0	10	0	3	173.21	cps
Selenium	78-2	527	547	477	517	6.98	cps
Silicon	28-1	76451754	77875841	77861544	77396379	1.06	cps
Silver	107-1	253	377	293	308	20.44	cps
Silver	109-1	133	130	107	123	11.78	cps
Sodium	23-2	20714083	20364375	20689589	20589349	0.95	cps
Strontium	86-1	21846250	22109065	22294445	22083253	1.02	cps
Strontium	88-1	189994531	193693397	194258717	192648882	1.20	cps
Sulfur	34-1	1580658	1584612	1607345	1590872	0.91	cps
Terbium	159-1	33309010	35151238	35416351	34625533	3.31	cps
Terbium	159-2	23628131	23650908	23426560	23568533	0.52	cps
Thallium	203-1	687	813	760	753	8.44	cps
Thallium	205-1	1780	1740	1820	1780	2.25	cps
Tin	118-1	6355	6458	6502	6438	1.17	cps
Titanium	47-1	990	1083	907	993	8.90	cps

Reviewed By:Mohan
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Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4832-08	Instrumnet Name :	P7
Client Sample ID :	E29S3	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 12:34:27	DataFile Name :	056SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	93865	95580	95192	94879	0.95	cps
Vanadium	51-2	207	187	227	207	9.68	cps
Yttrium	89-1	37574086	39332973	39421805	38776288	2.69	cps
Yttrium	89-2	9428799	9464550	9442037	9445129	0.19	cps
Zinc	66-2	10754	10454	10337	10515	2.05	cps
Zirconium	90-1	2807	2920	2877	2868	1.99	cps
Zirconium	91-1	583	677	823	695	17.43	cps

Reviewed By:Mohan
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Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4832-09	Instrumnet Name :	P7
Client Sample ID :	E29S7	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 12:37:35	DataFile Name :	057SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	1178	1093	1033	1102	6.62	cps
Antimony	121-1	22828	23463	23686	23326	1.91	cps
Arsenic	75-2	4254	4194	4434	4294	2.91	cps
Barium	135-1	838252	846596	849242	844697	0.68	cps
Barium	137-1	1463167	1465892	1481167	1470076	0.66	cps
Beryllium	9-1	72	50	50	57	22.35	cps
Bismuth	209-1	21753576	20513389	20385645	20884203	3.62	cps
Bismuth	209-2	16203432	16187969	16384081	16258494	0.67	cps
Bromine	81-1	57626	67125	72024	65592	11.16	cps
Bromine	81-2	10364	10661	10711	10578	1.77	cps
Cadmium	108-1	83	47	47	59	35.94	cps
Cadmium	106-1	11588	10948	10427	10988	5.29	cps
Cadmium	111-1	8170	7717	7380	7756	5.11	cps
Calcium	43-1	7284756	7410111	7291456	7328774	0.96	cps
Calcium	44-1	117103422	118689265	117537372	117776686	0.70	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	4841	4657	4841	4780	2.22	cps
Cobalt	59-2	18545	19159	18772	18825	1.65	cps
Copper	63-2	5254	4998	5314	5189	3.24	cps
Dysprosium	156-1	110	123	147	127	14.65	cps
Dysprosium	156-2	127	93	110	110	15.15	cps
Erbium	164-1	223	220	217	220	1.52	cps
Erbium	164-2	163	137	167	156	10.57	cps
Gadolinium	160-1	307	193	200	233	27.25	cps
Gadolinium	160-2	1377	1273	1283	1311	4.35	cps
Holmium	165-1	36857644	35469854	35278559	35868686	2.40	cps
Holmium	165-2	23720853	23591625	23545263	23619247	0.39	cps
Indium	115-1	31741121	29727713	29951408	30473414	3.62	cps
Indium	115-2	9799735	9828151	9752175	9793354	0.39	cps
Iron	56-2	8790430	8766540	8532619	8696530	1.64	cps
Iron	57-2	326880	327741	328071	327564	0.19	cps
Iron	54-2	478421	484518	480423	481121	0.65	cps
Krypton	83-1	343	250	320	304	15.96	cps

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4832-09	Instrumnet Name :	P7
Client Sample ID :	E29S7	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 12:37:35	DataFile Name :	057SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	2837	2804	2780	2807	1.01	cps
Lead	207-1	2370	2427	2300	2366	2.68	cps
Lead	208-1	10938	11272	10852	11021	2.01	cps
Lithium	6-1	3765679	3565684	3519203	3616855	3.62	cps
Magnesium	24-2	42015644	42507028	41392829	41971834	1.33	cps
Manganese	55-2	2260834	2274562	2214109	2249835	1.41	cps
Molybdenum	94-1	104261	105886	104459	104868	0.85	cps
Molybdenum	95-1	180539	183448	184288	182758	1.08	cps
Molybdenum	96-1	195248	197220	198987	197152	0.95	cps
Molybdenum	97-1	113688	113339	114605	113877	0.57	cps
Molybdenum	98-1	293238	296862	297116	295739	0.73	cps
Neodymium	150-1	187	147	130	154	18.86	cps
Neodymium	150-2	77	70	93	80	15.02	cps
Nickel	60-2	10277	10484	10327	10363	1.04	cps
Phosphorus	31-2	587	553	557	566	3.25	cps
Potassium	39-2	2264662	2265458	2245982	2258700	0.49	cps
Rhodium	103-1	29010290	27503016	27306302	27939869	3.34	cps
Rhodium	103-2	15761375	15769656	15937702	15822911	0.63	cps
Scandium	45-1	17316455	16521595	16377714	16738588	3.02	cps
Scandium	45-2	1288201	1309578	1316308	1304696	1.12	cps
Selenium	82-1	584	636	485	568	13.53	cps
Selenium	77-2	0	0	3	1	173.21	cps
Selenium	78-2	410	420	363	398	7.60	cps
Silicon	28-1	85461922	88080915	85154739	86232525	1.86	cps
Silver	107-1	257	253	237	249	4.31	cps
Silver	109-1	110	130	147	129	14.24	cps
Sodium	23-2	21067109	21244962	20831824	21047965	0.98	cps
Strontium	86-1	1932800	1938839	1935779	1935806	0.16	cps
Strontium	88-1	17011913	17088222	16954241	17018125	0.39	cps
Sulfur	34-1	2911048	2926749	2905716	2914505	0.38	cps
Terbium	159-1	37765353	36152896	35549065	36489105	3.14	cps
Terbium	159-2	23375150	23904079	23225760	23501663	1.52	cps
Thallium	203-1	610	557	573	580	4.70	cps
Thallium	205-1	1317	1287	1320	1308	1.40	cps
Tin	118-1	6775	6708	6688	6724	0.68	cps
Titanium	47-1	1107	1250	1070	1142	8.33	cps

Reviewed By:Mohan
On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4832-09	Instrumnet Name :	P7
Client Sample ID :	E29S7	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 12:37:35	DataFile Name :	057SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	85543	85520	84802	85288	0.49	cps
Vanadium	51-2	1450	1347	1403	1400	3.70	cps
Yttrium	89-1	42061650	39565882	39218372	40281968	3.85	cps
Yttrium	89-2	9477543	9358521	9515917	9450660	0.87	cps
Zinc	66-2	10604	10604	10741	10649	0.74	cps
Zirconium	90-1	3114	3217	3507	3279	6.22	cps
Zirconium	91-1	670	660	743	691	6.58	cps

Reviewed By:Mohan
On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4879-01	Instrumnet Name :	P7
Client Sample ID :	E29X1	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 12:40:45	DataFile Name :	058SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	776876	760878	765238	767664	1.08	cps
Antimony	121-1	3614	4114	3977	3902	6.63	cps
Arsenic	75-2	5371	5568	5694	5544	2.94	cps
Barium	135-1	184567	187276	188977	186940	1.19	cps
Barium	137-1	318335	324927	330089	324451	1.82	cps
Beryllium	9-1	406	461	467	444	7.60	cps
Bismuth	209-1	19347126	19819184	19710421	19625577	1.26	cps
Bismuth	209-2	15574764	15743841	15685505	15668036	0.55	cps
Bromine	81-1	44306	41301	39730	41779	5.57	cps
Bromine	81-2	3927	3627	4021	3858	5.33	cps
Cadmium	108-1	130	180	150	153	16.41	cps
Cadmium	106-1	11625	12045	11378	11683	2.89	cps
Cadmium	111-1	9250	9616	9196	9354	2.44	cps
Calcium	43-1	20130202	20275764	20729796	20378587	1.53	cps
Calcium	44-1	327117682	329104102	335125028	330448937	1.26	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	64052	64628	65338	64672	1.00	cps
Cobalt	59-2	53328	53435	53114	53292	0.31	cps
Copper	63-2	83987	83803	84095	83962	0.18	cps
Dysprosium	156-1	45213	45651	47085	45983	2.13	cps
Dysprosium	156-2	35639	35562	36006	35735	0.66	cps
Erbium	164-1	41394	43050	43615	42686	2.70	cps
Erbium	164-2	29371	28960	29077	29136	0.73	cps
Gadolinium	160-1	46651	48340	48918	47970	2.46	cps
Gadolinium	160-2	34559	35144	35949	35218	1.98	cps
Holmium	165-1	34518194	34812371	35061872	34797479	0.78	cps
Holmium	165-2	23684977	23866285	23670698	23740653	0.46	cps
Indium	115-1	28597504	28880837	29139668	28872670	0.94	cps
Indium	115-2	9644621	9728694	9789986	9721100	0.75	cps
Iron	56-2	79467500	78286461	78847429	78867130	0.75	cps
Iron	57-2	2319007	2324328	2333620	2325652	0.32	cps
Iron	54-2	4284757	4307089	4347084	4312977	0.73	cps
Krypton	83-1	440	403	453	432	5.99	cps

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Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4879-01	Instrumnet Name :	P7
Client Sample ID :	E29X1	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 12:40:45	DataFile Name :	058SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	4733761	4859283	4833088	4808710	1.38	cps
Lead	207-1	4055322	4227214	4224087	4168874	2.36	cps
Lead	208-1	18739432	19219249	19226838	19061840	1.46	cps
Lithium	6-1	3353547	3347346	3283246	3328046	1.17	cps
Magnesium	24-2	107859142	108074448	109248698	108394096	0.69	cps
Manganese	55-2	4311103	4271729	4375843	4319558	1.22	cps
Molybdenum	94-1	18188	18615	18505	18436	1.20	cps
Molybdenum	95-1	9256	9567	9620	9481	2.07	cps
Molybdenum	96-1	12676	12692	13366	12911	3.05	cps
Molybdenum	97-1	5644	5905	6078	5876	3.71	cps
Molybdenum	98-1	14597	15135	15265	14999	2.36	cps
Neodymium	150-1	67059	68394	69333	68262	1.67	cps
Neodymium	150-2	39813	38823	39455	39364	1.27	cps
Nickel	60-2	27238	26554	27095	26962	1.34	cps
Phosphorus	31-2	9656	9917	9827	9800	1.35	cps
Potassium	39-2	436175	436931	435569	436225	0.16	cps
Rhodium	103-1	26390345	26669857	27212065	26757423	1.56	cps
Rhodium	103-2	15783903	15700108	15969529	15817847	0.87	cps
Scandium	45-1	15866875	16421955	16349096	16212642	1.86	cps
Scandium	45-2	1352211	1370666	1341694	1354857	1.08	cps
Selenium	82-1	742	772	700	738	4.91	cps
Selenium	77-2	150	157	127	144	10.91	cps
Selenium	78-2	577	597	537	570	5.36	cps
Silicon	28-1	15510209	15944219	15742039	15732155	1.38	cps
Silver	107-1	2220	2610	2927	2586	13.69	cps
Silver	109-1	1950	2464	2800	2405	17.80	cps
Sodium	23-2	559771	567345	576308	567808	1.46	cps
Strontium	86-1	1591667	1613309	1651127	1618701	1.86	cps
Strontium	88-1	13762579	14154510	14326001	14081030	2.05	cps
Sulfur	34-1	416533	425148	422021	421234	1.04	cps
Terbium	159-1	35311033	36076209	36242466	35876569	1.38	cps
Terbium	159-2	23003345	23301149	23089795	23131430	0.66	cps
Thallium	203-1	2950	4317	5024	4097	25.73	cps
Thallium	205-1	6548	10267	12146	9654	29.51	cps
Tin	118-1	11905	12582	12916	12468	4.13	cps
Titanium	47-1	57024	61931	59144	59366	4.15	cps

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Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4879-01	Instrumnet Name :	P7
Client Sample ID :	E29X1	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 12:40:45	DataFile Name :	058SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	88418	89734	91019	89724	1.45	cps
Vanadium	51-2	68776	70028	68615	69140	1.12	cps
Yttrium	89-1	39480349	40026074	40725512	40077312	1.56	cps
Yttrium	89-2	9807479	9786694	9724599	9772924	0.44	cps
Zinc	66-2	151681	152715	150338	151578	0.79	cps
Zirconium	90-1	35015	35770	36963	35916	2.74	cps
Zirconium	91-1	7482	7669	8192	7781	4.73	cps

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On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4879-02	Instrumnet Name :	P7
Client Sample ID :	E29X2	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 12:43:52	DataFile Name :	059SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	626054	614704	612613	617790	1.17	cps
Antimony	121-1	2174	2134	2204	2170	1.62	cps
Arsenic	75-2	6051	6091	6208	6117	1.33	cps
Barium	135-1	267746	268212	269211	268390	0.28	cps
Barium	137-1	462240	464196	472186	466207	1.13	cps
Beryllium	9-1	478	439	383	433	10.95	cps
Bismuth	209-1	19407981	19900808	19596308	19635032	1.27	cps
Bismuth	209-2	15594764	15383814	15479029	15485869	0.68	cps
Bromine	81-1	31584	31998	32576	32053	1.55	cps
Bromine	81-2	2890	2854	2940	2895	1.50	cps
Cadmium	108-1	107	123	147	126	16.00	cps
Cadmium	106-1	11992	11758	11608	11786	1.64	cps
Cadmium	111-1	9320	9264	9100	9228	1.24	cps
Calcium	43-1	22647486	22698492	22313258	22553079	0.93	cps
Calcium	44-1	362168955	370192554	365025501	365795670	1.11	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	53846	53899	53528	53758	0.37	cps
Cobalt	59-2	56275	56730	56981	56662	0.63	cps
Copper	63-2	81574	83934	85851	83786	2.56	cps
Dysprosium	156-1	47998	48129	47701	47943	0.46	cps
Dysprosium	156-2	36497	35515	36584	36199	1.64	cps
Erbium	164-1	43621	45598	45708	44976	2.61	cps
Erbium	164-2	30887	30183	29718	30263	1.95	cps
Gadolinium	160-1	49517	50614	49467	49866	1.30	cps
Gadolinium	160-2	35301	35812	36013	35709	1.03	cps
Holmium	165-1	35252937	35471594	35339599	35354710	0.31	cps
Holmium	165-2	23866800	24027062	23585963	23826608	0.94	cps
Indium	115-1	29691960	29942281	29884490	29839577	0.44	cps
Indium	115-2	9859594	9806664	9797032	9821097	0.34	cps
Iron	56-2	71849784	73330726	72552346	72577618	1.02	cps
Iron	57-2	2223997	2250648	2231910	2235518	0.61	cps
Iron	54-2	3977378	4010831	3967778	3985329	0.57	cps
Krypton	83-1	410	460	413	428	6.53	cps

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Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4879-02	Instrumnet Name :	P7
Client Sample ID :	E29X2	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 12:43:52	DataFile Name :	059SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	122492	123945	123999	123479	0.69	cps
Lead	207-1	96821	98893	98416	98044	1.11	cps
Lead	208-1	458490	464938	463956	462461	0.75	cps
Lithium	6-1	3282716	3186019	3138607	3202447	2.29	cps
Magnesium	24-2	131111171	131545501	132024958	131560544	0.35	cps
Manganese	55-2	4522766	4587259	4537686	4549237	0.74	cps
Molybdenum	94-1	13043	13043	13443	13176	1.75	cps
Molybdenum	95-1	8369	8182	8626	8392	2.65	cps
Molybdenum	96-1	10784	11208	11178	11057	2.14	cps
Molybdenum	97-1	5074	5214	5151	5147	1.36	cps
Molybdenum	98-1	13383	13870	13596	13616	1.79	cps
Neodymium	150-1	69222	70545	69142	69636	1.13	cps
Neodymium	150-2	39910	40224	39950	40028	0.43	cps
Nickel	60-2	25579	25502	25829	25636	0.67	cps
Phosphorus	31-2	13366	13336	13166	13289	0.81	cps
Potassium	39-2	439462	437957	438423	438614	0.18	cps
Rhodium	103-1	27403640	27704344	27556475	27554819	0.55	cps
Rhodium	103-2	16080027	15950528	15832678	15954411	0.78	cps
Scandium	45-1	16733220	16892938	17168243	16931467	1.30	cps
Scandium	45-2	1384536	1407726	1372461	1388241	1.29	cps
Selenium	82-1	785	738	740	754	3.56	cps
Selenium	77-2	177	150	143	157	11.26	cps
Selenium	78-2	570	523	597	563	6.59	cps
Silicon	28-1	13931793	14122094	14588167	14214018	2.38	cps
Silver	107-1	1820	2310	2657	2262	18.58	cps
Silver	109-1	1950	2054	2237	2080	6.98	cps
Sodium	23-2	647621	646048	652167	648612	0.49	cps
Strontium	86-1	2230454	2284537	2298863	2271285	1.59	cps
Strontium	88-1	19626582	19999809	19713711	19780034	0.99	cps
Sulfur	34-1	444462	447348	443166	444992	0.48	cps
Terbium	159-1	36318845	36317024	36357550	36331140	0.06	cps
Terbium	159-2	23705624	23492411	23242264	23480100	0.99	cps
Thallium	203-1	2597	3134	3167	2966	10.79	cps
Thallium	205-1	6688	7422	7676	7262	7.06	cps
Tin	118-1	11638	11204	11421	11421	1.90	cps
Titanium	47-1	62382	63526	62806	62905	0.92	cps

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Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4879-02	Instrumnet Name :	P7
Client Sample ID :	E29X2	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 12:43:52	DataFile Name :	059SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	86211	88331	86114	86885	1.44	cps
Vanadium	51-2	68063	68508	69355	68642	0.96	cps
Yttrium	89-1	41433979	42243224	41736884	41804696	0.98	cps
Yttrium	89-2	9960701	9937536	9922424	9940220	0.19	cps
Zinc	66-2	55138	54984	55643	55255	0.62	cps
Zirconium	90-1	23573	23936	23562	23690	0.90	cps
Zirconium	91-1	5168	5291	5334	5264	1.64	cps

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Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4879-03	Instrumnet Name :	P7
Client Sample ID :	E29X3	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 12:47:03	DataFile Name :	060SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	731509	735733	732729	733324	0.30	cps
Antimony	121-1	2170	2210	2404	2261	5.52	cps
Arsenic	75-2	6648	6678	6772	6699	0.96	cps
Barium	135-1	181383	185292	185410	184028	1.25	cps
Barium	137-1	314011	320258	319744	318004	1.09	cps
Beryllium	9-1	472	556	500	509	8.33	cps
Bismuth	209-1	19424443	18701372	19581220	19235678	2.44	cps
Bismuth	209-2	15317528	15598053	15490143	15468574	0.91	cps
Bromine	81-1	28227	28501	29282	28670	1.91	cps
Bromine	81-2	2690	2287	2584	2520	8.29	cps
Cadmium	108-1	123	107	110	113	7.78	cps
Cadmium	106-1	11731	11074	11478	11428	2.90	cps
Cadmium	111-1	9149	8757	9034	8980	2.24	cps
Calcium	43-1	20319031	20628863	20853650	20600515	1.30	cps
Calcium	44-1	325881382	330289102	331775355	329315280	0.93	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	46445	46813	46465	46574	0.44	cps
Cobalt	59-2	53729	53997	55532	54419	1.79	cps
Copper	63-2	86991	87698	86317	87002	0.79	cps
Dysprosium	156-1	41785	42324	41631	41913	0.87	cps
Dysprosium	156-2	31348	31148	31378	31292	0.40	cps
Erbium	164-1	39466	39980	40174	39873	0.92	cps
Erbium	164-2	26378	26061	26602	26347	1.03	cps
Gadolinium	160-1	42768	43875	43551	43398	1.31	cps
Gadolinium	160-2	31418	32444	31502	31788	1.79	cps
Holmium	165-1	34835460	33674389	35603567	34704472	2.80	cps
Holmium	165-2	23661472	23909940	23677504	23749639	0.59	cps
Indium	115-1	30035910	28400891	30207738	29548180	3.38	cps
Indium	115-2	9823467	9832325	9962007	9872600	0.79	cps
Iron	56-2	81268307	82019232	80455335	81247625	0.96	cps
Iron	57-2	2406717	2378242	2367646	2384202	0.85	cps
Iron	54-2	4394868	4442029	4338276	4391724	1.18	cps
Krypton	83-1	447	400	437	428	5.74	cps

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Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4879-03	Instrumnet Name :	P7
Client Sample ID :	E29X3	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 12:47:03	DataFile Name :	060SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	141497	145884	147019	144800	2.01	cps
Lead	207-1	110492	115042	114040	113191	2.11	cps
Lead	208-1	526061	544773	538712	536515	1.78	cps
Lithium	6-1	3148607	3052375	3075513	3092165	1.62	cps
Magnesium	24-2	117143632	119129482	116181388	117484834	1.28	cps
Manganese	55-2	3802064	3853556	3756562	3804061	1.28	cps
Molybdenum	94-1	17294	17851	17260	17468	1.90	cps
Molybdenum	95-1	10944	11385	10854	11061	2.57	cps
Molybdenum	96-1	14127	15031	14741	14633	3.15	cps
Molybdenum	97-1	6845	6978	7032	6952	1.38	cps
Molybdenum	98-1	17033	17334	17641	17336	1.75	cps
Neodymium	150-1	59146	60329	60084	59853	1.04	cps
Neodymium	150-2	34161	34606	34208	34325	0.71	cps
Nickel	60-2	24797	25141	25729	25222	1.87	cps
Phosphorus	31-2	8419	8472	8432	8441	0.33	cps
Potassium	39-2	474053	471080	467993	471042	0.64	cps
Rhodium	103-1	27595705	25913860	27856723	27122096	3.89	cps
Rhodium	103-2	15979968	15925228	16254583	16053259	1.10	cps
Scandium	45-1	16843692	16004562	16840819	16563025	2.92	cps
Scandium	45-2	1416237	1417027	1390525	1407930	1.07	cps
Selenium	82-1	785	789	667	747	9.29	cps
Selenium	77-2	130	170	100	133	26.34	cps
Selenium	78-2	577	567	650	598	7.61	cps
Silicon	28-1	15068266	15240436	15052201	15120301	0.69	cps
Silver	107-1	1737	2027	2290	2018	13.72	cps
Silver	109-1	1683	1920	1977	1860	8.37	cps
Sodium	23-2	572652	574118	581795	576188	0.85	cps
Strontium	86-1	1905336	1968958	1970914	1948403	1.91	cps
Strontium	88-1	16629242	17134958	16960581	16908260	1.52	cps
Sulfur	34-1	446977	442055	436024	441685	1.24	cps
Terbium	159-1	36558387	33837677	36131621	35509228	4.12	cps
Terbium	159-2	23620734	23365723	23523956	23503471	0.55	cps
Thallium	203-1	3394	3644	3787	3608	5.52	cps
Thallium	205-1	7942	8883	8576	8467	5.66	cps
Tin	118-1	11605	17944	11902	13817	25.89	cps
Titanium	47-1	77008	79906	78747	78554	1.86	cps

Reviewed By:Mohan
On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4879-03	Instrumnet Name :	P7
Client Sample ID :	E29X3	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 12:47:03	DataFile Name :	060SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	107649	109810	108966	108808	1.00	cps
Vanadium	51-2	69777	69372	69985	69711	0.45	cps
Yttrium	89-1	41422323	39731529	41689934	40947929	2.59	cps
Yttrium	89-2	10025469	9966717	10014009	10002065	0.31	cps
Zinc	66-2	51685	51763	51271	51573	0.51	cps
Zirconium	90-1	29591	29553	29436	29527	0.27	cps
Zirconium	91-1	6715	6498	6535	6583	1.76	cps

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Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4879-04	Instrumnet Name :	P7
Client Sample ID :	E29X4	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 12:50:11	DataFile Name :	061SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	663112	671665	662553	665777	0.77	cps
Antimony	121-1	1787	1703	1960	1817	7.21	cps
Arsenic	75-2	5451	5354	5581	5462	2.08	cps
Barium	135-1	233126	236307	235842	235092	0.73	cps
Barium	137-1	404521	409018	408993	407511	0.64	cps
Beryllium	9-1	306	444	461	404	21.16	cps
Bismuth	209-1	19835521	19914753	20275362	20008545	1.17	cps
Bismuth	209-2	15898953	15902012	15931190	15910718	0.11	cps
Bromine	81-1	28751	29954	30906	29870	3.61	cps
Bromine	81-2	2830	2580	2810	2740	5.07	cps
Cadmium	108-1	100	113	113	109	7.07	cps
Cadmium	106-1	12012	11481	11628	11707	2.34	cps
Cadmium	111-1	9458	9144	9190	9264	1.83	cps
Calcium	43-1	19283642	19545873	19561273	19463596	0.80	cps
Calcium	44-1	309540562	315949322	314010895	313166926	1.05	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	43971	44348	43944	44088	0.51	cps
Cobalt	59-2	59203	58477	58758	58812	0.62	cps
Copper	63-2	78515	78870	78297	78560	0.37	cps
Dysprosium	156-1	53133	52785	54020	53313	1.19	cps
Dysprosium	156-2	40702	39883	40171	40252	1.03	cps
Erbium	164-1	50845	52421	51598	51622	1.53	cps
Erbium	164-2	35071	35315	34760	35048	0.79	cps
Gadolinium	160-1	54907	55586	56309	55601	1.26	cps
Gadolinium	160-2	39669	39432	39900	39667	0.59	cps
Holmium	165-1	35626249	35847281	35975997	35816509	0.49	cps
Holmium	165-2	24624954	24195941	24348807	24389901	0.89	cps
Indium	115-1	30131730	30262127	30749584	30381147	1.07	cps
Indium	115-2	10168250	10066520	10032341	10089037	0.70	cps
Iron	56-2	75127217	77373477	75001692	75834129	1.76	cps
Iron	57-2	2231128	2311600	2206333	2249687	2.45	cps
Iron	54-2	4159006	4197601	4128413	4161673	0.83	cps
Krypton	83-1	540	383	493	472	17.04	cps

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4879-04	Instrumnet Name :	P7
Client Sample ID :	E29X4	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 12:50:11	DataFile Name :	061SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	135783	138267	138414	137488	1.08	cps
Lead	207-1	107447	109834	110384	109222	1.43	cps
Lead	208-1	508850	515661	517324	513945	0.87	cps
Lithium	6-1	3147351	3197123	3110004	3151493	1.39	cps
Magnesium	24-2	89431119	92027279	88919125	90125841	1.85	cps
Manganese	55-2	6690165	6790131	6656441	6712246	1.04	cps
Molybdenum	94-1	8409	8119	8299	8276	1.77	cps
Molybdenum	95-1	7052	7025	7018	7032	0.25	cps
Molybdenum	96-1	8963	9030	9160	9051	1.11	cps
Molybdenum	97-1	4467	4457	4387	4437	0.98	cps
Molybdenum	98-1	11221	11351	11171	11248	0.83	cps
Neodymium	150-1	73242	73621	74351	73738	0.76	cps
Neodymium	150-2	43276	42464	41307	42349	2.34	cps
Nickel	60-2	24694	24250	24357	24433	0.95	cps
Phosphorus	31-2	11234	10994	11071	11100	1.11	cps
Potassium	39-2	465143	451280	447151	454525	2.07	cps
Rhodium	103-1	28226027	28250275	28389145	28288482	0.31	cps
Rhodium	103-2	16549304	16388434	16759089	16565609	1.12	cps
Scandium	45-1	16993545	17050077	16802421	16948681	0.77	cps
Scandium	45-2	1402833	1423760	1375457	1400683	1.73	cps
Selenium	82-1	671	827	697	732	11.39	cps
Selenium	77-2	150	177	147	158	10.42	cps
Selenium	78-2	600	587	673	620	7.53	cps
Silicon	28-1	16144746	16124267	16185754	16151589	0.19	cps
Silver	107-1	1737	1893	2104	1911	9.63	cps
Silver	109-1	1600	1780	1840	1740	7.18	cps
Sodium	23-2	511493	516459	512902	513618	0.50	cps
Strontium	86-1	2038079	2046986	2060859	2048641	0.56	cps
Strontium	88-1	17762980	17995582	18211107	17989890	1.25	cps
Sulfur	34-1	411854	405061	404333	407083	1.02	cps
Terbium	159-1	37236351	36997108	37392553	37208671	0.54	cps
Terbium	159-2	23872382	23533401	23867614	23757799	0.82	cps
Thallium	203-1	2580	2917	2860	2786	6.47	cps
Thallium	205-1	6362	6558	6875	6598	3.93	cps
Tin	118-1	10884	10898	10484	10755	2.19	cps
Titanium	47-1	62750	62212	61270	62077	1.21	cps

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LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4879-04	Instrumnet Name :	P7
Client Sample ID :	E29X4	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 12:50:11	DataFile Name :	061SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	69407	71873	70824	70701	1.75	cps
Vanadium	51-2	60196	60186	60364	60249	0.17	cps
Yttrium	89-1	42416924	42530629	43067273	42671609	0.81	cps
Yttrium	89-2	10147033	10239759	10351232	10246008	1.00	cps
Zinc	66-2	53141	53054	52184	52793	1.00	cps
Zirconium	90-1	11668	12509	12834	12337	4.88	cps
Zirconium	91-1	2504	2997	2604	2702	9.66	cps

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Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4879-05	Instrumnet Name :	P7
Client Sample ID :	E29X5	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 12:53:21	DataFile Name :	062SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	973032	945313	943734	954026	1.73	cps
Antimony	121-1	1753	1847	1913	1838	4.37	cps
Arsenic	75-2	4581	4547	4447	4525	1.53	cps
Barium	135-1	268278	282051	281691	277340	2.83	cps
Barium	137-1	469004	487256	492638	482966	2.56	cps
Beryllium	9-1	400	550	539	496	16.84	cps
Bismuth	209-1	20631768	19977834	20235716	20281772	1.62	cps
Bismuth	209-2	14908926	15584379	15955790	15483032	3.43	cps
Bromine	81-1	25329	26818	26130	26092	2.86	cps
Bromine	81-2	1873	2053	2050	1992	5.17	cps
Cadmium	108-1	193	140	157	163	16.71	cps
Cadmium	106-1	11855	12092	11772	11906	1.40	cps
Cadmium	111-1	9573	10030	9757	9787	2.35	cps
Calcium	43-1	13590980	14096057	14033177	13906738	1.98	cps
Calcium	44-1	219220410	227015097	226155877	224130461	1.91	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	55505	55134	56629	55756	1.40	cps
Cobalt	59-2	59200	59427	58517	59048	0.80	cps
Copper	63-2	104750	105012	101749	103837	1.75	cps
Dysprosium	156-1	62107	64269	64832	63736	2.26	cps
Dysprosium	156-2	48808	48192	48975	48658	0.85	cps
Erbium	164-1	55828	57561	58405	57265	2.29	cps
Erbium	164-2	39700	38600	38931	39077	1.44	cps
Gadolinium	160-1	63794	66959	66051	65602	2.48	cps
Gadolinium	160-2	47918	48594	48778	48430	0.93	cps
Holmium	165-1	37038604	35693957	36172159	36301573	1.88	cps
Holmium	165-2	22620118	23421145	23906545	23315936	2.79	cps
Indium	115-1	31185947	30835262	30427313	30816174	1.23	cps
Indium	115-2	9420004	9929046	10017210	9788753	3.29	cps
Iron	56-2	77694211	76068816	74982572	76248533	1.79	cps
Iron	57-2	2167338	2169209	2101847	2146131	1.79	cps
Iron	54-2	4209102	4174325	4162444	4181957	0.58	cps
Krypton	83-1	487	467	563	506	10.09	cps

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LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4879-05	Instrumnet Name :	P7
Client Sample ID :	E29X5	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 12:53:21	DataFile Name :	062SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	683542	700274	707599	697138	1.77	cps
Lead	207-1	552873	573064	570430	565456	1.94	cps
Lead	208-1	2596082	2687368	2701269	2661573	2.15	cps
Lithium	6-1	3388535	3149548	3174677	3237587	4.06	cps
Magnesium	24-2	74377701	75507461	74000637	74628599	1.05	cps
Manganese	55-2	3618321	3536340	3532192	3562284	1.36	cps
Molybdenum	94-1	10017	10280	10454	10250	2.15	cps
Molybdenum	95-1	8483	8696	8896	8692	2.38	cps
Molybdenum	96-1	10370	10884	10984	10746	3.06	cps
Molybdenum	97-1	5028	5184	5424	5212	3.83	cps
Molybdenum	98-1	13310	13793	13586	13563	1.79	cps
Neodymium	150-1	90850	93326	94920	93032	2.20	cps
Neodymium	150-2	53996	54037	53036	53689	1.06	cps
Nickel	60-2	29706	30074	30311	30030	1.01	cps
Phosphorus	31-2	18888	18918	19870	19226	2.90	cps
Potassium	39-2	488260	488110	483573	486648	0.55	cps
Rhodium	103-1	29370871	28028381	28102440	28500564	2.65	cps
Rhodium	103-2	15401369	16185175	16325570	15970705	3.12	cps
Scandium	45-1	17783499	17246721	17065268	17365163	2.15	cps
Scandium	45-2	1310978	1370357	1338813	1340049	2.22	cps
Selenium	82-1	769	774	616	720	12.51	cps
Selenium	77-2	240	263	230	244	7.00	cps
Selenium	78-2	717	647	580	648	10.55	cps
Silicon	28-1	21226650	22468045	22226418	21973704	3.00	cps
Silver	107-1	1750	1933	1730	1805	6.21	cps
Silver	109-1	1463	1617	1750	1610	8.91	cps
Sodium	23-2	492318	500924	496201	496481	0.87	cps
Strontium	86-1	2586604	2735415	2735415	2685812	3.20	cps
Strontium	88-1	22690386	23394381	23663385	23249384	2.16	cps
Sulfur	34-1	409862	412823	412170	411618	0.38	cps
Terbium	159-1	38013473	36904145	37053087	37323568	1.61	cps
Terbium	159-2	22295321	23673835	23637351	23202169	3.39	cps
Thallium	203-1	3007	3054	3174	3078	2.79	cps
Thallium	205-1	7049	7345	7395	7263	2.58	cps
Tin	118-1	12859	14087	13430	13459	4.57	cps
Titanium	47-1	85601	87310	88501	87137	1.67	cps

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LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4879-05	Instrumnet Name :	P7
Client Sample ID :	E29X5	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 12:53:21	DataFile Name :	062SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	64707	67493	68291	66830	2.82	cps
Vanadium	51-2	63021	62365	62820	62735	0.54	cps
Yttrium	89-1	43598706	42297429	42530401	42808845	1.62	cps
Yttrium	89-2	9506202	9804707	10165683	9825530	3.36	cps
Zinc	66-2	132465	131112	129916	131164	0.97	cps
Zirconium	90-1	14344	22268	15241	17284	25.10	cps
Zirconium	91-1	3360	3430	3190	3327	3.71	cps

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Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4879-06	Instrumnet Name :	P7
Client Sample ID :	E29X5D	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 12:56:28	DataFile Name :	063SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	957561	967191	964966	963239	0.52	cps
Antimony	121-1	1800	1820	1820	1813	0.64	cps
Arsenic	75-2	4771	4654	4511	4645	2.80	cps
Barium	135-1	293905	300847	301232	298661	1.38	cps
Barium	137-1	513305	522619	516465	517463	0.92	cps
Beryllium	9-1	378	472	489	446	13.43	cps
Bismuth	209-1	20217588	20289556	20464835	20323993	0.63	cps
Bismuth	209-2	16131859	15884426	8778377	13598220	30.71	cps
Bromine	81-1	25175	25646	26213	25678	2.02	cps
Bromine	81-2	1887	1843	2017	1916	4.71	cps
Cadmium	108-1	147	120	163	143	15.25	cps
Cadmium	106-1	12085	12005	12212	12101	0.86	cps
Cadmium	111-1	9977	10046	10044	10022	0.39	cps
Calcium	43-1	13569421	14093180	13964070	13875557	1.97	cps
Calcium	44-1	220069610	224329670	225073190	223157490	1.21	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	56930	55398	56596	56308	1.43	cps
Cobalt	59-2	58627	58396	60438	59154	1.89	cps
Copper	63-2	102236	104247	103841	103441	1.03	cps
Dysprosium	156-1	62033	63432	63165	62877	1.18	cps
Dysprosium	156-2	47533	46985	48420	47646	1.52	cps
Erbium	164-1	55526	56778	57451	56585	1.73	cps
Erbium	164-2	37915	38322	38690	38309	1.01	cps
Gadolinium	160-1	63594	65385	65971	64983	1.91	cps
Gadolinium	160-2	46721	47510	46845	47025	0.90	cps
Holmium	165-1	35651773	36101209	36307655	36020212	0.93	cps
Holmium	165-2	24413126	24051310	13367623	20610686	30.45	cps
Indium	115-1	30704825	30357273	30539839	30533979	0.57	cps
Indium	115-2	10113922	9978602	5517703	8536742	30.64	cps
Iron	56-2	76132576	75838256	76294141	76088324	0.30	cps
Iron	57-2	2096556	2132760	2100344	2109887	0.94	cps
Iron	54-2	4088342	4099173	4173884	4120466	1.13	cps
Krypton	83-1	447	440	437	441	1.15	cps

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4879-06	Instrumnet Name :	P7
Client Sample ID :	E29X5D	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 12:56:28	DataFile Name :	063SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	671869	674115	678255	674746	0.48	cps
Lead	207-1	542291	552433	559535	551420	1.57	cps
Lead	208-1	2559322	2594966	2600987	2585092	0.87	cps
Lithium	6-1	3269545	3181852	3154829	3202076	1.87	cps
Magnesium	24-2	72124552	74245174	72787866	73052531	1.48	cps
Manganese	55-2	3481427	3450922	3508589	3480313	0.83	cps
Molybdenum	94-1	10010	10144	10831	10328	4.26	cps
Molybdenum	95-1	8646	8579	8543	8589	0.61	cps
Molybdenum	96-1	10457	11034	11218	10903	3.64	cps
Molybdenum	97-1	5244	5171	5408	5274	2.30	cps
Molybdenum	98-1	13483	13626	13773	13628	1.07	cps
Neodymium	150-1	91039	93823	93504	92788	1.64	cps
Neodymium	150-2	53076	52584	53160	52940	0.59	cps
Nickel	60-2	30371	28958	29542	29624	2.40	cps
Phosphorus	31-2	18538	18144	18959	18547	2.20	cps
Potassium	39-2	479346	482201	481349	480966	0.30	cps
Rhodium	103-1	28364723	28396514	28796661	28519299	0.84	cps
Rhodium	103-2	16467894	16178051	9050079	13898675	30.23	cps
Scandium	45-1	17166113	16785843	16899412	16950456	1.15	cps
Scandium	45-2	1358343	1443291	759166	1186933	31.42	cps
Selenium	82-1	810	848	765	807	5.15	cps
Selenium	77-2	183	220	193	199	9.53	cps
Selenium	78-2	707	637	627	657	6.64	cps
Silicon	28-1	22241920	22195314	22232056	22223097	0.11	cps
Silver	107-1	1597	1827	1870	1765	8.33	cps
Silver	109-1	1393	1563	1680	1546	9.33	cps
Sodium	23-2	483375	487919	491328	487541	0.82	cps
Strontium	86-1	2643992	2718087	2713541	2691873	1.54	cps
Strontium	88-1	23125210	23466446	23643070	23411575	1.12	cps
Sulfur	34-1	415521	413776	415429	414909	0.24	cps
Terbium	159-1	36852454	36934994	37349499	37045649	0.72	cps
Terbium	159-2	24418286	23904303	13350672	20557754	30.39	cps
Thallium	203-1	2817	2977	3094	2963	4.69	cps
Thallium	205-1	6688	6895	6778	6787	1.53	cps
Tin	118-1	13126	13403	14362	13630	4.76	cps
Titanium	47-1	88423	91039	90391	89951	1.51	cps

Reviewed By:Mohan
On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4879-06	Instrumnet Name :	P7
Client Sample ID :	E29X5D	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 12:56:28	DataFile Name :	063SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	68710	69611	70053	69458	0.99	cps
Vanadium	51-2	63376	64346	63540	63754	0.81	cps
Yttrium	89-1	42089401	42799283	42577728	42488804	0.85	cps
Yttrium	89-2	10060095	9999418	5700826	8586780	29.11	cps
Zinc	66-2	127304	127239	128326	127623	0.48	cps
Zirconium	90-1	14304	15215	14734	14751	3.09	cps
Zirconium	91-1	3247	3137	3440	3275	4.69	cps

Reviewed By:Mohan
On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4879-05LX5	Instrumnet Name :	P7
Client Sample ID :	E29X5L	Dilution Factor :	5
Date & Time Acquired :	2024-11-20 12:59:38	DataFile Name :	064SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	193403	191978	193769	193050	0.49	cps
Antimony	121-1	477	470	453	467	2.57	cps
Arsenic	75-2	993	893	920	936	5.54	cps
Barium	135-1	53112	55551	55401	54688	2.50	cps
Barium	137-1	95219	96149	96313	95894	0.62	cps
Beryllium	9-1	100	144	183	143	29.24	cps
Bismuth	209-1	20368308	20243791	20228078	20280059	0.38	cps
Bismuth	209-2	16229676	16250446	16341540	16273888	0.37	cps
Bromine	81-1	19383	19159	19172	19238	0.65	cps
Bromine	81-2	633	660	643	646	2.09	cps
Cadmium	108-1	43	67	50	53	22.54	cps
Cadmium	106-1	11868	11525	11168	11520	3.04	cps
Cadmium	111-1	8601	8371	8162	8378	2.62	cps
Calcium	43-1	2739693	2812582	2796332	2782869	1.37	cps
Calcium	44-1	43394908	45263159	44558889	44405652	2.12	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	16499	16599	16683	16594	0.55	cps
Cobalt	59-2	11548	11891	11748	11729	1.47	cps
Copper	63-2	23635	23645	23452	23578	0.46	cps
Dysprosium	156-1	12369	12432	13073	12625	3.08	cps
Dysprosium	156-2	9230	9680	9500	9470	2.39	cps
Erbium	164-1	11345	11218	10974	11179	1.68	cps
Erbium	164-2	8079	7425	7752	7752	4.22	cps
Gadolinium	160-1	12659	13557	13427	13214	3.67	cps
Gadolinium	160-2	10517	10681	10454	10551	1.11	cps
Holmium	165-1	34393522	35817354	35622343	35277740	2.19	cps
Holmium	165-2	23852826	23779815	23985715	23872785	0.44	cps
Indium	115-1	29870961	30528521	30790976	30396819	1.56	cps
Indium	115-2	10006456	10009702	10049645	10021934	0.24	cps
Iron	56-2	14908650	14909739	14528321	14782236	1.49	cps
Iron	57-2	411189	410868	408895	410317	0.30	cps
Iron	54-2	827240	812376	811309	816975	1.09	cps
Krypton	83-1	350	337	347	344	2.02	cps

Reviewed By:Mohan
On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4879-05LX5	Instrumnet Name :	P7
Client Sample ID :	E29X5L	Dilution Factor :	5
Date & Time Acquired :	2024-11-20 12:59:38	DataFile Name :	064SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	140891	141743	142936	141857	0.72	cps
Lead	207-1	114269	116528	118256	116351	1.72	cps
Lead	208-1	534807	544625	547176	542202	1.20	cps
Lithium	6-1	3341686	3415515	3413437	3390213	1.24	cps
Magnesium	24-2	14977637	14662111	14879714	14839821	1.09	cps
Manganese	55-2	687989	682579	675521	682029	0.92	cps
Molybdenum	94-1	2717	2664	2890	2757	4.30	cps
Molybdenum	95-1	1787	1757	1760	1768	0.93	cps
Molybdenum	96-1	2237	2307	2374	2306	2.96	cps
Molybdenum	97-1	1160	1227	1203	1197	2.83	cps
Molybdenum	98-1	2794	2827	2947	2856	2.82	cps
Neodymium	150-1	18148	18412	18185	18249	0.78	cps
Neodymium	150-2	10861	10090	10361	10437	3.75	cps
Nickel	60-2	6391	6672	6331	6465	2.81	cps
Phosphorus	31-2	4037	4241	4137	4138	2.46	cps
Potassium	39-2	166190	164505	165418	165371	0.51	cps
Rhodium	103-1	28650651	28906474	28631299	28729475	0.53	cps
Rhodium	103-2	16661644	16561831	16574322	16599266	0.33	cps
Scandium	45-1	16552748	16881923	16693589	16709420	0.99	cps
Scandium	45-2	1367890	1361601	1343139	1357543	0.95	cps
Selenium	82-1	582	634	492	569	12.64	cps
Selenium	77-2	40	30	40	37	15.75	cps
Selenium	78-2	500	413	497	470	10.45	cps
Silicon	28-1	5433790	5327614	5426084	5395829	1.10	cps
Silver	107-1	827	917	807	850	6.89	cps
Silver	109-1	700	660	667	676	3.17	cps
Sodium	23-2	188954	190715	187925	189198	0.75	cps
Strontium	86-1	502495	517736	516282	512171	1.64	cps
Strontium	88-1	4568218	4604201	4585178	4585866	0.39	cps
Sulfur	34-1	368940	368894	366659	368164	0.35	cps
Terbium	159-1	35915141	36122816	36669734	36235897	1.08	cps
Terbium	159-2	23677290	23184638	23508804	23456910	1.07	cps
Thallium	203-1	967	913	997	959	4.40	cps
Thallium	205-1	2457	2364	2304	2375	3.25	cps
Tin	118-1	9657	9837	9783	9759	0.95	cps
Titanium	47-1	17590	17380	17837	17603	1.30	cps

Reviewed By:Mohan
On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4879-05LX5	Instrumnet Name :	P7
Client Sample ID :	E29X5L	Dilution Factor :	5
Date & Time Acquired :	2024-11-20 12:59:38	DataFile Name :	064SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	12679	13323	13243	13082	2.68	cps
Vanadium	51-2	12118	12288	12032	12146	1.08	cps
Yttrium	89-1	41112044	41152964	41316279	41193762	0.26	cps
Yttrium	89-2	9873453	9634058	9629836	9712449	1.44	cps
Zinc	66-2	37494	37921	37357	37591	0.78	cps
Zirconium	90-1	4687	4964	4901	4851	2.99	cps
Zirconium	91-1	990	1083	1083	1052	5.12	cps

Reviewed By:Mohan
On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4879-07	Instrumnet Name :	P7
Client Sample ID :	E29X5S	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 13:02:48	DataFile Name :	065SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	1234747	1207296	1225859	1222634	1.15	cps
Antimony	121-1	508487	521005	525768	518420	1.72	cps
Arsenic	75-2	15231	14771	14757	14920	1.81	cps
Barium	135-1	2824000	2863871	2868680	2852184	0.86	cps
Barium	137-1	4868198	4868530	4976611	4904446	1.27	cps
Beryllium	9-1	24163	24369	23373	23969	2.19	cps
Bismuth	209-1	20046431	20098856	20321357	20155548	0.72	cps
Bismuth	209-2	15830919	15805278	15934083	15856760	0.43	cps
Bromine	81-1	23105	24557	24781	24148	3.77	cps
Bromine	81-2	1793	1903	1857	1851	2.98	cps
Cadmium	108-1	4417	4707	4427	4517	3.65	cps
Cadmium	106-1	17831	18141	17941	17971	0.88	cps
Cadmium	111-1	76852	79107	79203	78387	1.70	cps
Calcium	43-1	13583942	13755021	13928571	13755845	1.25	cps
Calcium	44-1	219793510	222985363	223825610	222201494	0.96	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	469320	471518	472453	471097	0.34	cps
Cobalt	59-2	1785179	1776028	1792190	1784466	0.45	cps
Copper	63-2	681050	676535	684673	680753	0.60	cps
Dysprosium	156-1	62810	64641	64956	64136	1.81	cps
Dysprosium	156-2	48838	48828	49273	48979	0.52	cps
Erbium	164-1	56631	58699	58408	57913	1.93	cps
Erbium	164-2	39723	39907	39355	39662	0.71	cps
Gadolinium	160-1	65653	66537	68245	66812	1.97	cps
Gadolinium	160-2	47975	48828	47898	48234	1.07	cps
Holmium	165-1	35596014	35985299	35948892	35843402	0.60	cps
Holmium	165-2	23941525	23972466	23956015	23956669	0.06	cps
Indium	115-1	29410747	30271192	30084283	29922074	1.51	cps
Indium	115-2	9923328	9973600	9951748	9949558	0.25	cps
Iron	56-2	78335567	78252177	77655384	78081043	0.48	cps
Iron	57-2	2223859	2185202	2175481	2194847	1.17	cps
Iron	54-2	4309021	4304214	4288347	4300527	0.25	cps
Krypton	83-1	413	407	573	464	20.32	cps

Reviewed By:Mohan
On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4879-07	Instrumnet Name :	P7
Client Sample ID :	E29X5S	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 13:02:48	DataFile Name :	065SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	763191	768745	781331	771089	1.21	cps
Lead	207-1	623726	631252	630744	628574	0.67	cps
Lead	208-1	2916740	2960319	2980789	2952616	1.11	cps
Lithium	6-1	3405483	3293808	3240444	3313245	2.54	cps
Magnesium	24-2	73874971	74792599	73675241	74114270	0.80	cps
Manganese	55-2	4369946	4369884	4294140	4344657	1.01	cps
Molybdenum	94-1	11087	10744	10154	10662	4.43	cps
Molybdenum	95-1	8733	8986	8756	8825	1.59	cps
Molybdenum	96-1	10644	10807	10697	10716	0.78	cps
Molybdenum	97-1	5278	5218	5198	5231	0.80	cps
Molybdenum	98-1	13426	13833	13873	13711	1.80	cps
Neodymium	150-1	91796	94990	96582	94456	2.58	cps
Neodymium	150-2	53575	54428	53702	53901	0.85	cps
Nickel	60-2	454389	450350	454381	453040	0.51	cps
Phosphorus	31-2	19349	19069	19165	19194	0.74	cps
Potassium	39-2	485428	480958	487090	484492	0.65	cps
Rhodium	103-1	27293598	27823931	28076017	27731182	1.44	cps
Rhodium	103-2	16187999	16240038	16207176	16211738	0.16	cps
Scandium	45-1	16719991	16716501	16585274	16673922	0.46	cps
Scandium	45-2	1372077	1375913	1333719	1360569	1.71	cps
Selenium	82-1	8777	8911	8584	8757	1.88	cps
Selenium	77-2	1073	977	993	1014	5.09	cps
Selenium	78-2	3250	3084	3167	3167	2.63	cps
Silicon	28-1	22621243	22439810	22524641	22528564	0.40	cps
Silver	107-1	328081	337920	340669	335556	1.97	cps
Silver	109-1	316088	321885	321794	319922	1.04	cps
Sodium	23-2	500021	500467	498876	499788	0.16	cps
Strontium	86-1	2614837	2675009	2698980	2662942	1.63	cps
Strontium	88-1	22820408	23400118	23714716	23311747	1.95	cps
Sulfur	34-1	414680	412422	413343	413481	0.27	cps
Terbium	159-1	36293968	37005484	37053313	36784255	1.16	cps
Terbium	159-2	23878335	23515075	23349500	23580970	1.15	cps
Thallium	203-1	226537	229643	229841	228674	0.81	cps
Thallium	205-1	529920	546383	547497	541267	1.82	cps
Tin	118-1	12966	13613	13757	13445	3.13	cps
Titanium	47-1	86385	89057	90264	88569	2.24	cps

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On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4879-07	Instrumnet Name :	P7
Client Sample ID :	E29X5S	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 13:02:48	DataFile Name :	065SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	68743	72369	71146	70753	2.61	cps
Vanadium	51-2	949840	957528	947735	951701	0.54	cps
Yttrium	89-1	41156667	41192058	41963221	41437315	1.10	cps
Yttrium	89-2	10095568	9874855	9854412	9941612	1.35	cps
Zinc	66-2	318003	316559	315996	316853	0.33	cps
Zirconium	90-1	14270	14230	14617	14373	1.48	cps
Zirconium	91-1	3070	3237	3240	3183	3.05	cps

Reviewed By:Mohan
On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4879-08	Instrumnet Name :	P7
Client Sample ID :	E29X6	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 13:05:53	DataFile Name :	066SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	598727	597246	598761	598244	0.14	cps
Antimony	121-1	1833	2137	2037	2002	7.72	cps
Arsenic	75-2	10971	10574	10697	10747	1.89	cps
Barium	135-1	210169	213783	215611	213188	1.30	cps
Barium	137-1	365431	373934	375315	371560	1.44	cps
Beryllium	9-1	539	489	450	493	9.05	cps
Bismuth	209-1	17547575	19731566	19880247	19053129	6.85	cps
Bismuth	209-2	15575222	15457156	15751062	15594480	0.95	cps
Bromine	81-1	24971	26020	27352	26114	4.57	cps
Bromine	81-2	2067	2267	2220	2185	4.79	cps
Cadmium	108-1	123	200	130	151	28.10	cps
Cadmium	106-1	10554	11531	11465	11183	4.88	cps
Cadmium	111-1	8748	9429	9371	9183	4.11	cps
Calcium	43-1	22201666	22011339	22425657	22212887	0.93	cps
Calcium	44-1	356699981	354366981	361183768	357416910	0.97	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	48187	48869	48100	48385	0.87	cps
Cobalt	59-2	63346	61954	62737	62679	1.11	cps
Copper	63-2	87678	87778	87923	87793	0.14	cps
Dysprosium	156-1	51581	51598	51313	51497	0.31	cps
Dysprosium	156-2	38680	38626	39037	38781	0.58	cps
Erbium	164-1	45748	47644	47597	46996	2.30	cps
Erbium	164-2	32220	31275	32284	31926	1.77	cps
Gadolinium	160-1	53555	53656	54348	53853	0.80	cps
Gadolinium	160-2	39415	39004	39034	39151	0.59	cps
Holmium	165-1	31484107	35197998	35649069	34110391	6.70	cps
Holmium	165-2	24185400	23650415	24014748	23950188	1.14	cps
Indium	115-1	26990646	29629124	29994364	28871378	5.68	cps
Indium	115-2	9923405	9877143	9827910	9876153	0.48	cps
Iron	56-2	73235599	72640916	73452096	73109537	0.57	cps
Iron	57-2	2239485	2245603	2235222	2240103	0.23	cps
Iron	54-2	3981166	3990035	3972647	3981283	0.22	cps
Krypton	83-1	423	507	403	444	12.33	cps

Reviewed By:Mohan
On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4879-08	Instrumnet Name :	P7
Client Sample ID :	E29X6	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 13:05:53	DataFile Name :	066SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	154871	155488	156314	155558	0.47	cps
Lead	207-1	121805	122214	123388	122469	0.67	cps
Lead	208-1	573571	579738	584339	579216	0.93	cps
Lithium	6-1	2910767	3050785	3074539	3012030	2.94	cps
Magnesium	24-2	92987885	95617172	92925192	93843416	1.64	cps
Manganese	55-2	3491332	3501191	3508512	3500345	0.25	cps
Molybdenum	94-1	11211	11401	11314	11309	0.84	cps
Molybdenum	95-1	9343	9790	10137	9757	4.08	cps
Molybdenum	96-1	12232	12452	12205	12296	1.10	cps
Molybdenum	97-1	5815	6151	6165	6044	3.28	cps
Molybdenum	98-1	15512	15792	15986	15763	1.51	cps
Neodymium	150-1	71828	73105	73862	72932	1.41	cps
Neodymium	150-2	42424	42618	42597	42546	0.25	cps
Nickel	60-2	29776	30701	30160	30213	1.54	cps
Phosphorus	31-2	10083	10210	9973	10089	1.17	cps
Potassium	39-2	446099	448438	441497	445345	0.79	cps
Rhodium	103-1	24726466	27423764	28088245	26746158	6.66	cps
Rhodium	103-2	16280566	16024954	16098292	16134604	0.82	cps
Scandium	45-1	15058295	16721574	17141826	16307232	6.76	cps
Scandium	45-2	1415986	1364495	1399353	1393278	1.89	cps
Selenium	82-1	869	809	876	852	4.29	cps
Selenium	77-2	207	167	187	187	10.71	cps
Selenium	78-2	597	723	573	631	12.79	cps
Silicon	28-1	13191147	13617678	13857574	13555466	2.49	cps
Silver	107-1	2060	2067	1887	2005	5.09	cps
Silver	109-1	1837	1697	1650	1728	5.62	cps
Sodium	23-2	642865	649577	641716	644719	0.66	cps
Strontium	86-1	2443966	2439722	2469834	2451174	0.66	cps
Strontium	88-1	21048515	21507580	21451031	21335708	1.17	cps
Sulfur	34-1	442196	443142	445441	443593	0.38	cps
Terbium	159-1	32739034	36479880	36737649	35318854	6.34	cps
Terbium	159-2	23429546	23421172	23359676	23403465	0.16	cps
Thallium	203-1	2057	1994	2190	2080	4.83	cps
Thallium	205-1	4851	5081	4961	4964	2.32	cps
Tin	118-1	10754	11098	10971	10941	1.59	cps
Titanium	47-1	51405	51853	50775	51344	1.05	cps

Reviewed By:Mohan
On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4879-08	Instrumnet Name :	P7
Client Sample ID :	E29X6	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 13:05:53	DataFile Name :	066SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	103248	105033	103335	103872	0.97	cps
Vanadium	51-2	65046	64929	63881	64619	0.99	cps
Yttrium	89-1	37441797	41896632	42404206	40580878	6.73	cps
Yttrium	89-2	10169432	9894401	10152722	10072185	1.53	cps
Zinc	66-2	77047	74967	77376	76463	1.71	cps
Zirconium	90-1	15345	16423	16479	16082	3.98	cps
Zirconium	91-1	3494	3744	4680	3973	15.74	cps

Reviewed By:Mohan
On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4879-09	Instrumnet Name :	P7
Client Sample ID :	E29X7	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 13:09:01	DataFile Name :	067SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	609098	610490	624164	614584	1.35	cps
Antimony	121-1	1627	1687	1577	1630	3.38	cps
Arsenic	75-2	4391	4391	4431	4404	0.52	cps
Barium	135-1	197845	200015	202878	200246	1.26	cps
Barium	137-1	342946	347778	349364	346696	0.96	cps
Beryllium	9-1	422	439	361	407	10.05	cps
Bismuth	209-1	19510875	19676310	19861370	19682852	0.89	cps
Bismuth	209-2	15441838	15741219	15643152	15608736	0.98	cps
Bromine	81-1	28284	30488	31253	30008	5.14	cps
Bromine	81-2	2817	2864	2907	2863	1.57	cps
Cadmium	108-1	123	107	143	124	14.75	cps
Cadmium	106-1	12065	11455	11778	11766	2.60	cps
Cadmium	111-1	9439	8997	9094	9177	2.53	cps
Calcium	43-1	21770020	21523646	21693955	21662540	0.58	cps
Calcium	44-1	349492541	348104648	350285595	349294261	0.32	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	46608	46578	46986	46724	0.49	cps
Cobalt	59-2	54659	54729	53843	54410	0.91	cps
Copper	63-2	69162	69246	69216	69208	0.06	cps
Dysprosium	156-1	45333	46042	46216	45864	1.02	cps
Dysprosium	156-2	35221	35227	35074	35174	0.25	cps
Erbium	164-1	42036	42150	42524	42237	0.60	cps
Erbium	164-2	28299	28209	28499	28335	0.52	cps
Gadolinium	160-1	46694	46942	46972	46869	0.33	cps
Gadolinium	160-2	34402	34005	34212	34206	0.58	cps
Holmium	165-1	35113325	35666413	35524113	35434617	0.81	cps
Holmium	165-2	24017874	23847621	24064445	23976647	0.48	cps
Indium	115-1	29794306	30108115	30461365	30121262	1.11	cps
Indium	115-2	9977210	9993568	9926612	9965797	0.35	cps
Iron	56-2	58891712	57930381	58085391	58302495	0.89	cps
Iron	57-2	1813267	1858860	1833991	1835373	1.24	cps
Iron	54-2	3237235	3154370	3205242	3198949	1.31	cps
Krypton	83-1	507	400	397	434	14.40	cps

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Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4879-09	Instrumnet Name :	P7
Client Sample ID :	E29X7	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 13:09:01	DataFile Name :	067SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	149650	153941	154959	152850	1.84	cps
Lead	207-1	119104	121640	122223	120989	1.37	cps
Lead	208-1	558609	571785	576096	568830	1.60	cps
Lithium	6-1	3098586	2961534	3022019	3027380	2.27	cps
Magnesium	24-2	119380202	119816812	118549792	119248935	0.54	cps
Manganese	55-2	3640314	3622903	3622841	3628686	0.28	cps
Molybdenum	94-1	13740	13396	13450	13529	1.37	cps
Molybdenum	95-1	6108	6331	6421	6287	2.57	cps
Molybdenum	96-1	8796	8939	8943	8893	0.94	cps
Molybdenum	97-1	4111	3937	3961	4003	2.35	cps
Molybdenum	98-1	10150	10150	10030	10110	0.69	cps
Neodymium	150-1	67842	67993	68757	68197	0.72	cps
Neodymium	150-2	39144	39535	39134	39271	0.58	cps
Nickel	60-2	24824	24874	24817	24838	0.12	cps
Phosphorus	31-2	9520	9510	9546	9525	0.20	cps
Potassium	39-2	454739	460725	463964	459809	1.02	cps
Rhodium	103-1	27470171	28231064	27778472	27826569	1.38	cps
Rhodium	103-2	16182946	16056289	16276829	16172021	0.68	cps
Scandium	45-1	16792528	16900505	17117330	16936788	0.98	cps
Scandium	45-2	1395681	1379184	1382783	1385883	0.63	cps
Selenium	82-1	724	873	822	806	9.37	cps
Selenium	77-2	147	150	167	154	6.94	cps
Selenium	78-2	627	670	610	636	4.87	cps
Silicon	28-1	13171482	13629863	13022337	13274561	2.39	cps
Silver	107-1	1280	1530	1737	1516	15.09	cps
Silver	109-1	1263	1433	1543	1413	9.98	cps
Sodium	23-2	625921	625020	621416	624119	0.38	cps
Strontium	86-1	1890061	1913242	1918874	1907392	0.80	cps
Strontium	88-1	16539747	16592773	16873251	16668590	1.08	cps
Sulfur	34-1	402545	397341	396999	398961	0.78	cps
Terbium	159-1	36278422	36458217	36687406	36474682	0.56	cps
Terbium	159-2	23823280	23500560	23774160	23699334	0.73	cps
Thallium	203-1	1707	1660	1830	1732	5.07	cps
Thallium	205-1	4411	4314	4151	4292	3.06	cps
Tin	118-1	9977	10207	10270	10151	1.52	cps
Titanium	47-1	58111	55947	56880	56979	1.91	cps

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Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4879-09	Instrumnet Name :	P7
Client Sample ID :	E29X7	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 13:09:01	DataFile Name :	067SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	85687	86683	87557	86643	1.08	cps
Vanadium	51-2	64256	65307	64115	64560	1.01	cps
Yttrium	89-1	41653678	42106043	42926086	42228602	1.53	cps
Yttrium	89-2	10101061	10084335	10020464	10068620	0.42	cps
Zinc	66-2	50880	50294	51054	50743	0.78	cps
Zirconium	90-1	26173	26227	26845	26415	1.41	cps
Zirconium	91-1	6318	5995	5651	5988	5.57	cps

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On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4879-10	Instrumnet Name :	P7
Client Sample ID :	E29X8	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 13:12:12	DataFile Name :	068SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	827303	807749	810487	815179	1.30	cps
Antimony	121-1	2047	1917	2024	1996	3.47	cps
Arsenic	75-2	5238	5094	5198	5177	1.43	cps
Barium	135-1	235673	240076	237034	237594	0.95	cps
Barium	137-1	409727	419056	416477	415087	1.16	cps
Beryllium	9-1	450	506	456	470	6.51	cps
Bismuth	209-1	19927656	19945055	20288848	20053853	1.02	cps
Bismuth	209-2	15947008	15567937	16138061	15884335	1.83	cps
Bromine	81-1	28240	29703	30879	29608	4.46	cps
Bromine	81-2	2697	2604	2534	2611	3.14	cps
Cadmium	108-1	120	140	127	129	7.90	cps
Cadmium	106-1	11848	11905	11335	11696	2.69	cps
Cadmium	111-1	9267	9249	8916	9144	2.16	cps
Calcium	43-1	16391634	16735736	16353041	16493470	1.28	cps
Calcium	44-1	262544263	266060556	267177763	265260860	0.91	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	52280	52397	53317	52665	1.08	cps
Cobalt	59-2	55492	55101	55295	55296	0.35	cps
Copper	63-2	81242	81668	81343	81418	0.27	cps
Dysprosium	156-1	37289	38837	38292	38140	2.06	cps
Dysprosium	156-2	28903	28422	29471	28932	1.81	cps
Erbium	164-1	35592	36564	36962	36373	1.94	cps
Erbium	164-2	25006	24538	24451	24665	1.21	cps
Gadolinium	160-1	38854	38954	39412	39073	0.76	cps
Gadolinium	160-2	28693	29067	29090	28950	0.77	cps
Holmium	165-1	35216014	35744079	36555573	35838556	1.88	cps
Holmium	165-2	24444255	24007847	24504800	24318968	1.11	cps
Indium	115-1	30312634	30184005	30554436	30350358	0.62	cps
Indium	115-2	10057150	9968184	10113725	10046353	0.73	cps
Iron	56-2	67438514	68257871	66138466	67278283	1.59	cps
Iron	57-2	1982261	1970398	1943170	1965277	1.02	cps
Iron	54-2	3684893	3691860	3560344	3645699	2.03	cps
Krypton	83-1	387	470	460	439	10.37	cps

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On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4879-10	Instrumnet Name :	P7
Client Sample ID :	E29X8	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 13:12:12	DataFile Name :	068SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	143233	146446	145806	145162	1.17	cps
Lead	207-1	115258	115099	115745	115367	0.29	cps
Lead	208-1	542907	548016	546945	545956	0.49	cps
Lithium	6-1	3183844	3195207	3093099	3157383	1.77	cps
Magnesium	24-2	97918049	96470509	92693489	95694015	2.82	cps
Manganese	55-2	2859964	2885810	2779870	2841882	1.94	cps
Molybdenum	94-1	10551	10557	11051	10720	2.68	cps
Molybdenum	95-1	10707	10541	10891	10713	1.64	cps
Molybdenum	96-1	12916	13490	12906	13104	2.55	cps
Molybdenum	97-1	6798	6838	6588	6742	1.99	cps
Molybdenum	98-1	17237	17614	17594	17482	1.21	cps
Neodymium	150-1	56084	56607	57192	56628	0.98	cps
Neodymium	150-2	32407	32761	31278	32149	2.41	cps
Nickel	60-2	26310	26604	26807	26574	0.94	cps
Phosphorus	31-2	9019	9023	9623	9222	3.77	cps
Potassium	39-2	477386	481562	473358	477435	0.86	cps
Rhodium	103-1	28155672	28286452	28395898	28279341	0.43	cps
Rhodium	103-2	16450718	16287936	16537162	16425272	0.77	cps
Scandium	45-1	16977709	16922269	17196425	17032134	0.85	cps
Scandium	45-2	1429310	1390616	1399035	1406320	1.45	cps
Selenium	82-1	884	742	741	789	10.38	cps
Selenium	77-2	193	107	120	140	33.33	cps
Selenium	78-2	587	560	587	578	2.66	cps
Silicon	28-1	19122447	19027377	19038282	19062702	0.27	cps
Silver	107-1	1300	1500	1537	1446	8.81	cps
Silver	109-1	1303	1317	1357	1326	2.09	cps
Sodium	23-2	494262	503838	502001	500034	1.02	cps
Strontium	86-1	2236225	2257445	2276217	2256629	0.89	cps
Strontium	88-1	19500065	19627421	19853850	19660445	0.91	cps
Sulfur	34-1	405024	403611	403800	404145	0.19	cps
Terbium	159-1	36506113	37428195	37504019	37146109	1.50	cps
Terbium	159-2	23703202	23662832	24112615	23826217	1.04	cps
Thallium	203-1	2134	2277	2347	2252	4.83	cps
Thallium	205-1	5421	5131	5268	5273	2.75	cps
Tin	118-1	10874	10394	11008	10759	3.00	cps
Titanium	47-1	84464	84632	86400	85165	1.26	cps

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Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4879-10	Instrumnet Name :	P7
Client Sample ID :	E29X8	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 13:12:12	DataFile Name :	068SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	59255	60072	60179	59835	0.84	cps
Vanadium	51-2	65431	64875	66496	65601	1.26	cps
Yttrium	89-1	41694905	42188063	42382428	42088465	0.84	cps
Yttrium	89-2	10143838	10041119	10217947	10134301	0.88	cps
Zinc	66-2	63742	62670	63283	63232	0.85	cps
Zirconium	90-1	13048	12385	12869	12767	2.68	cps
Zirconium	91-1	2724	2744	2664	2710	1.54	cps

Reviewed By:Mohan
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Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4879-11	Instrumnet Name :	P7
Client Sample ID :	E29X9	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 13:15:19	DataFile Name :	069SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	2621280	2608616	2590386	2606761	0.60	cps
Antimony	121-1	2760	2704	2607	2690	2.88	cps
Arsenic	75-2	12512	12669	12752	12644	0.96	cps
Barium	135-1	506334	507372	509606	507771	0.33	cps
Barium	137-1	877372	891156	888093	885540	0.82	cps
Beryllium	9-1	1122	1050	1139	1104	4.28	cps
Bismuth	209-1	20914395	20606294	20995666	20838785	0.99	cps
Bismuth	209-2	16457651	16378752	16535550	16457318	0.48	cps
Bromine	81-1	22287	22771	22671	22576	1.13	cps
Bromine	81-2	1227	1127	1260	1205	5.76	cps
Cadmium	108-1	417	343	360	373	10.30	cps
Cadmium	106-1	12018	11842	11468	11776	2.39	cps
Cadmium	111-1	10851	11006	10556	10804	2.12	cps
Calcium	43-1	5779438	5757596	5788907	5775314	0.28	cps
Calcium	44-1	93329269	92525135	92932549	92928984	0.43	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	91328	92796	91559	91894	0.86	cps
Cobalt	59-2	103125	101339	100786	101750	1.20	cps
Copper	63-2	239494	236082	237945	237840	0.72	cps
Dysprosium	156-1	61517	63473	63607	62866	1.86	cps
Dysprosium	156-2	47513	47343	47165	47341	0.37	cps
Erbium	164-1	56882	57140	58535	57519	1.55	cps
Erbium	164-2	38637	38810	39402	38950	1.03	cps
Gadolinium	160-1	64350	64782	64451	64528	0.35	cps
Gadolinium	160-2	47008	47139	46169	46772	1.13	cps
Holmium	165-1	35608254	35762166	36147011	35839144	0.77	cps
Holmium	165-2	24441815	24213689	24307745	24321083	0.47	cps
Indium	115-1	30615477	30517896	30574095	30569156	0.16	cps
Indium	115-2	10030952	9826654	9960750	9939452	1.04	cps
Iron	56-2	89925745	89785735	88978555	89563345	0.57	cps
Iron	57-2	2315741	2332961	2275044	2307915	1.29	cps
Iron	54-2	4957688	4907257	4802440	4889129	1.62	cps
Krypton	83-1	430	463	433	442	4.15	cps

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Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4879-11	Instrumnet Name :	P7
Client Sample ID :	E29X9	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 13:15:19	DataFile Name :	069SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	216846	217949	220601	218465	0.88	cps
Lead	207-1	172912	175380	175950	174748	0.92	cps
Lead	208-1	817131	826641	831695	825155	0.90	cps
Lithium	6-1	3370224	3150728	3191831	3237594	3.60	cps
Magnesium	24-2	33748204	33160666	33142783	33350551	1.03	cps
Manganese	55-2	1842505	1853861	1781259	1825875	2.14	cps
Molybdenum	94-1	45196	46159	45748	45701	1.06	cps
Molybdenum	95-1	32279	31771	32854	32301	1.68	cps
Molybdenum	96-1	39774	40082	40352	40069	0.72	cps
Molybdenum	97-1	20034	20271	20241	20182	0.64	cps
Molybdenum	98-1	51263	50865	51678	51268	0.79	cps
Neodymium	150-1	90884	92732	92474	92030	1.09	cps
Neodymium	150-2	51748	52313	52126	52062	0.55	cps
Nickel	60-2	67953	67638	66279	67290	1.32	cps
Phosphorus	31-2	13730	13309	13233	13424	1.99	cps
Potassium	39-2	619450	608869	610599	612972	0.93	cps
Rhodium	103-1	28435655	28721796	28667565	28608339	0.53	cps
Rhodium	103-2	16507266	16134821	16525934	16389340	1.35	cps
Scandium	45-1	16663108	16875827	16512261	16683732	1.09	cps
Scandium	45-2	1359709	1335217	1350784	1348570	0.92	cps
Selenium	82-1	823	821	789	811	2.35	cps
Selenium	77-2	200	223	183	202	9.94	cps
Selenium	78-2	623	720	643	662	7.71	cps
Silicon	28-1	51138979	63574311	50938886	55217392	13.11	cps
Silver	107-1	2464	2574	2567	2535	2.43	cps
Silver	109-1	2127	2230	2340	2232	4.78	cps
Sodium	23-2	338923	338770	338994	338896	0.03	cps
Strontium	86-1	1853148	1851633	1865686	1856822	0.42	cps
Strontium	88-1	16060049	16256804	16175344	16164065	0.61	cps
Sulfur	34-1	477849	473590	472048	474496	0.63	cps
Terbium	159-1	37183718	37232481	36816159	37077453	0.61	cps
Terbium	159-2	23893131	23878372	23918199	23896567	0.08	cps
Thallium	203-1	3837	4044	3947	3943	2.62	cps
Thallium	205-1	9303	9487	9687	9492	2.02	cps
Tin	118-1	11234	12255	11641	11710	4.39	cps
Titanium	47-1	189547	189128	188867	189181	0.18	cps

Reviewed By:Mohan
On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4879-11	Instrumnet Name :	P7
Client Sample ID :	E29X9	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 13:15:19	DataFile Name :	069SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	68123	69695	69852	69223	1.38	cps
Vanadium	51-2	128891	128174	126387	127817	1.01	cps
Yttrium	89-1	41847988	41759804	42176646	41928146	0.52	cps
Yttrium	89-2	9971721	9830595	9889559	9897292	0.72	cps
Zinc	66-2	127377	128282	127260	127640	0.44	cps
Zirconium	90-1	72980	75117	75633	74577	1.89	cps
Zirconium	91-1	16062	16443	16896	16467	2.54	cps

Reviewed By:Mohan
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Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4879-12	Instrumnet Name :	P7
Client Sample ID :	E29Y0	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 13:18:27	DataFile Name :	070SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	2317968	2299106	2294674	2303916	0.54	cps
Antimony	121-1	3050	3267	3260	3193	3.86	cps
Arsenic	75-2	10477	10534	10537	10516	0.32	cps
Barium	135-1	369857	379946	378270	376024	1.44	cps
Barium	137-1	642568	664677	663705	656983	1.90	cps
Beryllium	9-1	800	789	806	798	1.06	cps
Bismuth	209-1	20802738	17502142	18851655	19052178	8.71	cps
Bismuth	209-2	15597033	15546480	15904135	15682549	1.23	cps
Bromine	81-1	23489	24404	24667	24187	2.56	cps
Bromine	81-2	1783	1667	1897	1782	6.45	cps
Cadmium	108-1	313	253	250	272	13.09	cps
Cadmium	106-1	12846	10587	10544	11326	11.62	cps
Cadmium	111-1	10696	9204	9246	9715	8.75	cps
Calcium	43-1	15949841	16306074	16120352	16125422	1.10	cps
Calcium	44-1	255820616	260521676	259569783	258637358	0.96	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	108312	109437	108936	108895	0.52	cps
Cobalt	59-2	124989	125210	124219	124806	0.42	cps
Copper	63-2	183278	185090	182458	183609	0.73	cps
Dysprosium	156-1	83024	86169	86622	85272	2.30	cps
Dysprosium	156-2	64082	63597	63831	63836	0.38	cps
Erbium	164-1	72671	74842	75586	74366	2.04	cps
Erbium	164-2	49812	50397	50384	50197	0.67	cps
Gadolinium	160-1	85623	87095	88101	86940	1.43	cps
Gadolinium	160-2	62639	61464	62107	62070	0.95	cps
Holmium	165-1	37030734	31606778	33151893	33929802	8.24	cps
Holmium	165-2	23943871	23684138	24121271	23916427	0.92	cps
Indium	115-1	31279272	26515281	27379820	28391458	8.94	cps
Indium	115-2	9823374	9678636	9894795	9798935	1.12	cps
Iron	56-2	147277241	146770494	145948081	146665272	0.46	cps
Iron	57-2	3851027	3901859	3980446	3911110	1.67	cps
Iron	54-2	7903306	7970060	8060532	7977966	0.99	cps
Krypton	83-1	433	490	490	471	6.94	cps

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Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4879-12	Instrumnet Name :	P7
Client Sample ID :	E29Y0	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 13:18:27	DataFile Name :	070SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	225119	231743	231716	229526	1.66	cps
Lead	207-1	178561	184361	187181	183368	2.40	cps
Lead	208-1	849163	868705	878910	865593	1.75	cps
Lithium	6-1	3269848	2776852	2997301	3014667	8.19	cps
Magnesium	24-2	81617854	79773787	80101390	80497677	1.22	cps
Manganese	55-2	4027827	3917817	4035783	3993809	1.65	cps
Molybdenum	94-1	56385	57335	56843	56854	0.84	cps
Molybdenum	95-1	24758	25145	25866	25256	2.23	cps
Molybdenum	96-1	34621	35707	36673	35667	2.88	cps
Molybdenum	97-1	15578	15969	16353	15967	2.42	cps
Molybdenum	98-1	39851	41579	41773	41068	2.58	cps
Neodymium	150-1	122486	126007	126548	125014	1.76	cps
Neodymium	150-2	71664	70702	70498	70955	0.88	cps
Nickel	60-2	76129	74822	74782	75244	1.02	cps
Phosphorus	31-2	16095	15511	16065	15891	2.07	cps
Potassium	39-2	1009944	1016694	1018226	1014955	0.43	cps
Rhodium	103-1	29117067	24438781	25727443	26427764	9.14	cps
Rhodium	103-2	16037814	15828379	16285234	16050476	1.42	cps
Scandium	45-1	17544701	14743667	14968746	15752371	9.88	cps
Scandium	45-2	1354945	1345293	1386996	1362411	1.60	cps
Selenium	82-1	927	756	680	788	16.06	cps
Selenium	77-2	290	283	270	281	3.62	cps
Selenium	78-2	730	610	630	657	9.79	cps
Silicon	28-1	48557239	49101221	48906134	48854865	0.56	cps
Silver	107-1	1963	2067	2170	2067	5.00	cps
Silver	109-1	1843	1797	1873	1838	2.10	cps
Sodium	23-2	511801	508398	508601	509600	0.37	cps
Strontium	86-1	1724112	1788730	1783360	1765401	2.03	cps
Strontium	88-1	15007149	15537324	15564449	15369641	2.04	cps
Sulfur	34-1	594426	585785	585585	588599	0.86	cps
Terbium	159-1	38824472	32822310	33841221	35162668	9.13	cps
Terbium	159-2	23701661	23278485	23939755	23639967	1.42	cps
Thallium	203-1	3134	3324	3207	3222	2.98	cps
Thallium	205-1	7672	7926	7826	7808	1.64	cps
Tin	118-1	12566	12802	13196	12855	2.48	cps
Titanium	47-1	250180	251509	282189	261293	6.93	cps

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Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4879-12	Instrumnet Name :	P7
Client Sample ID :	E29Y0	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 13:18:27	DataFile Name :	070SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	116640	120171	121089	119300	1.97	cps
Vanadium	51-2	112314	110427	110578	111106	0.94	cps
Yttrium	89-1	42882669	37113003	38266322	39420665	7.75	cps
Yttrium	89-2	9938482	9817863	9995783	9917376	0.92	cps
Zinc	66-2	148759	147692	149651	148701	0.66	cps
Zirconium	90-1	116745	117355	116914	117005	0.27	cps
Zirconium	91-1	25996	25633	25365	25665	1.23	cps

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Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4879-13	Instrumnet Name :	P7
Client Sample ID :	E29Y1	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 13:21:34	DataFile Name :	071SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	909248	913517	917640	913468	0.46	cps
Antimony	121-1	2004	2080	1987	2023	2.46	cps
Arsenic	75-2	5318	5338	5244	5300	0.93	cps
Barium	135-1	307673	315122	316366	313054	1.50	cps
Barium	137-1	534906	543149	551496	543184	1.53	cps
Beryllium	9-1	528	589	428	515	15.80	cps
Bismuth	209-1	20278901	20313115	20445438	20345818	0.43	cps
Bismuth	209-2	16063076	16303475	15832334	16066295	1.47	cps
Bromine	81-1	22965	23616	23692	23424	1.71	cps
Bromine	81-2	1257	1370	1387	1338	5.29	cps
Cadmium	108-1	137	113	157	136	16.00	cps
Cadmium	106-1	12085	12022	11435	11847	3.03	cps
Cadmium	111-1	9557	9493	9081	9377	2.75	cps
Calcium	43-1	9705309	9753087	9716358	9724918	0.26	cps
Calcium	44-1	153116234	158334998	158155878	156535703	1.89	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	50451	50190	48728	49790	1.86	cps
Cobalt	59-2	65954	66563	67019	66512	0.80	cps
Copper	63-2	127307	125739	126637	126561	0.62	cps
Dysprosium	156-1	43698	45019	44708	44475	1.55	cps
Dysprosium	156-2	35836	33530	33918	34428	3.59	cps
Erbium	164-1	41528	41251	42478	41752	1.54	cps
Erbium	164-2	27120	27841	28018	27660	1.72	cps
Gadolinium	160-1	44484	45831	46216	45510	2.00	cps
Gadolinium	160-2	33577	33039	33256	33291	0.81	cps
Holmium	165-1	35981469	35544123	35800865	35775486	0.61	cps
Holmium	165-2	23675482	24411867	23583600	23890316	1.90	cps
Indium	115-1	30500029	30396221	30452394	30449548	0.17	cps
Indium	115-2	9956752	10064263	9753004	9924673	1.59	cps
Iron	56-2	74714714	72947762	74307934	73990137	1.25	cps
Iron	57-2	2008677	2006285	2005565	2006842	0.08	cps
Iron	54-2	4110568	3985912	4050142	4048874	1.54	cps
Krypton	83-1	380	370	360	370	2.70	cps

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LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4879-13	Instrumnet Name :	P7
Client Sample ID :	E29Y1	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 13:21:34	DataFile Name :	071SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	196963	203733	200740	200479	1.69	cps
Lead	207-1	161396	162560	163353	162436	0.61	cps
Lead	208-1	754898	766701	767700	763100	0.93	cps
Lithium	6-1	3219427	3189958	3161593	3190326	0.91	cps
Magnesium	24-2	45218473	44566243	45898778	45227831	1.47	cps
Manganese	55-2	2086594	2025769	2074692	2062351	1.56	cps
Molybdenum	94-1	15488	15879	15922	15763	1.52	cps
Molybdenum	95-1	16513	17057	17187	16919	2.11	cps
Molybdenum	96-1	19219	19874	19537	19543	1.67	cps
Molybdenum	97-1	10334	10614	10671	10539	1.71	cps
Molybdenum	98-1	26501	27025	27075	26867	1.18	cps
Neodymium	150-1	64812	64577	64714	64701	0.18	cps
Neodymium	150-2	36604	36668	37680	36984	1.63	cps
Nickel	60-2	33404	34493	33200	33699	2.06	cps
Phosphorus	31-2	18872	18678	18304	18618	1.55	cps
Potassium	39-2	441511	435284	436775	437857	0.74	cps
Rhodium	103-1	28194920	28382896	28383353	28320390	0.38	cps
Rhodium	103-2	16502160	16643906	16232774	16459613	1.27	cps
Scandium	45-1	16654391	16629349	16726354	16670031	0.30	cps
Scandium	45-2	1350213	1350151	1366136	1355500	0.68	cps
Selenium	82-1	794	692	691	726	8.19	cps
Selenium	77-2	177	130	170	159	15.89	cps
Selenium	78-2	463	640	513	539	16.90	cps
Silicon	28-1	21459908	21627984	22274706	21787532	1.97	cps
Silver	107-1	1467	1663	1723	1618	8.30	cps
Silver	109-1	1397	1537	1523	1486	5.20	cps
Sodium	23-2	395785	393541	388550	392625	0.94	cps
Strontium	86-1	2046236	2091414	2100045	2079232	1.39	cps
Strontium	88-1	17741491	18021198	18025476	17929388	0.91	cps
Sulfur	34-1	447649	448438	446672	447586	0.20	cps
Terbium	159-1	36742983	36884372	37141018	36922791	0.55	cps
Terbium	159-2	23442445	24102270	23456021	23666912	1.59	cps
Thallium	203-1	2417	2467	2394	2426	1.54	cps
Thallium	205-1	5505	5628	5394	5509	2.12	cps
Tin	118-1	15235	15922	15545	15567	2.21	cps
Titanium	47-1	120325	120878	124578	121927	1.90	cps

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LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4879-13	Instrumnet Name :	P7
Client Sample ID :	E29Y1	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 13:21:34	DataFile Name :	071SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	67028	67691	69249	67989	1.68	cps
Vanadium	51-2	58064	58429	57937	58144	0.44	cps
Yttrium	89-1	42046899	41907207	41960974	41971693	0.17	cps
Yttrium	89-2	9910181	9994675	9847924	9917593	0.74	cps
Zinc	66-2	76458	78146	76414	77006	1.28	cps
Zirconium	90-1	16977	16459	17134	16857	2.09	cps
Zirconium	91-1	3417	3804	4044	3755	8.42	cps

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LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4879-14	Instrumnet Name :	P7
Client Sample ID :	E29Y2	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 13:24:46	DataFile Name :	072SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	815476	818945	824381	819601	0.55	cps
Antimony	121-1	1857	1880	1860	1866	0.68	cps
Arsenic	75-2	6822	6658	6555	6678	2.01	cps
Barium	135-1	173697	177573	179473	176914	1.66	cps
Barium	137-1	304094	310248	312301	308881	1.38	cps
Beryllium	9-1	539	506	494	513	4.51	cps
Bismuth	209-1	19755832	19657329	19579846	19664336	0.45	cps
Bismuth	209-2	15482713	15562901	15917600	15654405	1.48	cps
Bromine	81-1	26320	28715	29576	28204	5.98	cps
Bromine	81-2	2444	2480	2714	2546	5.75	cps
Cadmium	108-1	103	107	120	110	8.02	cps
Cadmium	106-1	11772	11521	11311	11535	2.00	cps
Cadmium	111-1	9191	9010	8877	9026	1.75	cps
Calcium	43-1	21987633	22423984	22690076	22367231	1.59	cps
Calcium	44-1	351431488	361084261	362405781	358307177	1.67	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	56321	55960	55070	55784	1.15	cps
Cobalt	59-2	67012	67280	67692	67328	0.51	cps
Copper	63-2	81373	80391	80190	80651	0.79	cps
Dysprosium	156-1	53475	53431	55137	54014	1.80	cps
Dysprosium	156-2	40756	41675	41779	41403	1.36	cps
Erbium	164-1	47146	47972	48190	47769	1.15	cps
Erbium	164-2	32244	32197	33006	32482	1.40	cps
Gadolinium	160-1	53783	54331	56102	54739	2.21	cps
Gadolinium	160-2	39713	39505	39091	39436	0.80	cps
Holmium	165-1	35136559	35546469	35651239	35444755	0.77	cps
Holmium	165-2	23541680	23798077	24251890	23863882	1.51	cps
Indium	115-1	29695927	29656449	30056809	29803061	0.74	cps
Indium	115-2	9786510	9883446	10012042	9894000	1.14	cps
Iron	56-2	82471167	81289872	80937529	81566189	0.98	cps
Iron	57-2	2443780	2433843	2451523	2443049	0.36	cps
Iron	54-2	4595786	4418296	4408788	4474290	2.35	cps
Krypton	83-1	470	420	453	448	5.69	cps

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LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4879-14	Instrumnet Name :	P7
Client Sample ID :	E29Y2	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 13:24:46	DataFile Name :	072SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	161642	165852	168889	165461	2.20	cps
Lead	207-1	128346	131294	131492	130378	1.35	cps
Lead	208-1	608847	620415	621509	616923	1.14	cps
Lithium	6-1	3126443	3079572	3052808	3086274	1.21	cps
Magnesium	24-2	95931289	94535342	94305239	94923956	0.93	cps
Manganese	55-2	4296926	4196975	4155017	4216306	1.73	cps
Molybdenum	94-1	16012	16369	16476	16286	1.49	cps
Molybdenum	95-1	8092	7856	8259	8069	2.51	cps
Molybdenum	96-1	11148	11241	11104	11164	0.63	cps
Molybdenum	97-1	4741	4914	5084	4913	3.50	cps
Molybdenum	98-1	12239	12919	12936	12698	3.13	cps
Neodymium	150-1	80293	81906	83636	81945	2.04	cps
Neodymium	150-2	47222	45851	47262	46778	1.72	cps
Nickel	60-2	29686	30431	30013	30043	1.24	cps
Phosphorus	31-2	14821	14847	14667	14778	0.66	cps
Potassium	39-2	520100	511354	513113	514856	0.90	cps
Rhodium	103-1	27966765	27650321	27648445	27755177	0.66	cps
Rhodium	103-2	15875330	16123434	16022603	16007122	0.78	cps
Scandium	45-1	16759230	16854105	16806990	16806775	0.28	cps
Scandium	45-2	1419881	1398637	1368811	1395776	1.84	cps
Selenium	82-1	773	854	744	791	7.20	cps
Selenium	77-2	233	150	200	194	21.57	cps
Selenium	78-2	667	580	623	623	6.95	cps
Silicon	28-1	17896997	18016265	18184888	18032717	0.80	cps
Silver	107-1	1307	1477	1557	1447	8.83	cps
Silver	109-1	1227	1260	1513	1333	11.76	cps
Sodium	23-2	530443	527433	529115	528997	0.29	cps
Strontium	86-1	1984635	2064281	2068898	2039272	2.32	cps
Strontium	88-1	17480086	17810235	17781433	17690585	1.03	cps
Sulfur	34-1	422757	420109	421561	421476	0.31	cps
Terbium	159-1	36442363	36098554	36211612	36250843	0.48	cps
Terbium	159-2	23494703	23398095	23399935	23430911	0.24	cps
Thallium	203-1	2757	2780	2670	2736	2.12	cps
Thallium	205-1	6255	6248	6518	6340	2.43	cps
Tin	118-1	10290	10521	11211	10674	4.49	cps
Titanium	47-1	93437	96754	95271	95154	1.75	cps

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LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4879-14	Instrumnet Name :	P7
Client Sample ID :	E29Y2	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 13:24:46	DataFile Name :	072SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	96474	97239	98173	97295	0.87	cps
Vanadium	51-2	73196	75313	74157	74222	1.43	cps
Yttrium	89-1	42307359	41918424	41809903	42011895	0.62	cps
Yttrium	89-2	9893961	10099138	10168014	10053704	1.42	cps
Zinc	66-2	57028	57269	57667	57322	0.56	cps
Zirconium	90-1	31975	33341	33599	32972	2.65	cps
Zirconium	91-1	7295	7279	8963	7846	12.33	cps

Reviewed By:Mohan
On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	CCV006	Instrumnet Name :	P7
Client Sample ID :	CCV006	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 13:28:09	DataFile Name :	073CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	26766625	26690980	26956231	26804612	0.51	cps
Antimony	121-1	12851388	13128781	13236693	13072287	1.52	cps
Arsenic	75-2	661853	656350	658282	658828	0.42	cps
Barium	135-1	15508525	15773661	15735558	15672581	0.91	cps
Barium	137-1	26936410	27250685	27205083	27130726	0.63	cps
Beryllium	9-1	1256979	1235351	1235391	1242574	1.00	cps
Bismuth	209-1	19224398	19168539	18933051	19108663	0.81	cps
Bismuth	209-2	14668068	14694999	14709047	14690705	0.14	cps
Bromine	81-1	17757	17621	18061	17813	1.27	cps
Bromine	81-2	253	260	247	253	2.63	cps
Cadmium	108-1	251079	253384	253248	252570	0.51	cps
Cadmium	106-1	359204	364156	362219	361860	0.69	cps
Cadmium	111-1	3466820	3514240	3500873	3493978	0.70	cps
Calcium	43-1	17002546	17150027	17050216	17067597	0.44	cps
Calcium	44-1	271844296	277234276	274214576	274431049	0.98	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	5088632	5092810	5126442	5102628	0.41	cps
Cobalt	59-2	8334766	8305294	8352851	8330970	0.29	cps
Copper	63-2	62253514	61967042	61164867	61795141	0.91	cps
Dysprosium	156-1	1647	1377	1363	1462	10.93	cps
Dysprosium	156-2	1070	1073	1090	1078	0.99	cps
Erbium	164-1	730	707	607	681	9.62	cps
Erbium	164-2	450	457	430	446	3.11	cps
Gadolinium	160-1	630	637	613	627	1.92	cps
Gadolinium	160-2	1433	1450	1453	1446	0.74	cps
Holmium	165-1	35404815	35158158	34852674	35138549	0.79	cps
Holmium	165-2	23430390	23079230	23014530	23174717	0.97	cps
Indium	115-1	29650252	29181784	28632565	29154867	1.75	cps
Indium	115-2	9350100	9338663	9351028	9346597	0.07	cps
Iron	56-2	1132481983	1136652516	1146374516	1138503005	0.63	cps
Iron	57-2	28289957	28742248	28501351	28511185	0.79	cps
Iron	54-2	62333442	61955059	62142236	62143579	0.30	cps
Krypton	83-1	320	423	357	367	14.29	cps

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Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	CCV006	Instrumnet Name :	P7
Client Sample ID :	CCV006	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 13:28:09	DataFile Name :	073CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	43077568	44153559	44053081	43761403	1.36	cps
Lead	207-1	37688381	38387449	38566877	38214236	1.21	cps
Lead	208-1	172496214	175307767	176064450	174622810	1.08	cps
Lithium	6-1	3270919	3228355	3044767	3181347	3.78	cps
Magnesium	24-2	231134870	232929690	230963597	231676052	0.47	cps
Manganese	55-2	38093709	38140744	38503280	38245911	0.59	cps
Molybdenum	94-1	46704169	46955919	46876114	46845401	0.27	cps
Molybdenum	95-1	68153634	68637094	68626312	68472347	0.40	cps
Molybdenum	96-1	74416771	75502269	75218266	75045768	0.75	cps
Molybdenum	97-1	42167664	42902078	42729758	42599833	0.90	cps
Molybdenum	98-1	109762815	110367708	110027092	110052538	0.28	cps
Neodymium	150-1	963	943	883	930	4.48	cps
Neodymium	150-2	270	330	330	310	11.17	cps
Nickel	60-2	2107098	2121476	2106446	2111673	0.40	cps
Phosphorus	31-2	250336	249466	248798	249533	0.31	cps
Potassium	39-2	131963338	133029168	131304531	132099012	0.66	cps
Rhodium	103-1	26891679	26595255	26285217	26590717	1.14	cps
Rhodium	103-2	14779013	14805594	14719746	14768118	0.30	cps
Scandium	45-1	16970618	16583705	16330570	16628297	1.94	cps
Scandium	45-2	1341741	1311061	1327549	1326784	1.16	cps
Selenium	82-1	203487	204953	205513	204651	0.51	cps
Selenium	77-2	19520	19189	18335	19015	3.22	cps
Selenium	78-2	63991	63539	62970	63500	0.81	cps
Silicon	28-1	22039727	22545451	22484019	22356399	1.23	cps
Silver	107-1	17015358	17118207	17064866	17066144	0.30	cps
Silver	109-1	16371321	16401647	16369954	16380974	0.11	cps
Sodium	23-2	359069808	363235221	356029035	359444688	1.01	cps
Strontium	86-1	4198682	4239864	4263400	4233982	0.77	cps
Strontium	88-1	37011184	37167144	36967337	37048555	0.28	cps
Sulfur	34-1	1342242	1376814	1358967	1359341	1.27	cps
Terbium	159-1	36246893	36137294	35578734	35987640	1.00	cps
Terbium	159-2	22846295	22879323	22881577	22869065	0.09	cps
Thallium	203-1	10947234	11139409	11224326	11103656	1.28	cps
Thallium	205-1	26493009	26527856	26334671	26451845	0.39	cps
Tin	118-1	10646913	10752967	10866106	10755329	1.02	cps
Titanium	47-1	16113621	16213844	16306617	16211361	0.60	cps

Reviewed By:Mohan
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Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	CCV006	Instrumnet Name :	P7
Client Sample ID :	CCV006	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 13:28:09	DataFile Name :	073CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	33282100	34103535	33857238	33747625	1.25	cps
Vanadium	51-2	4503585	4502897	4507820	4504767	0.06	cps
Yttrium	89-1	41258243	40465556	39957247	40560349	1.62	cps
Yttrium	89-2	9541691	9526285	9537795	9535257	0.08	cps
Zinc	66-2	9706256	9724475	9681190	9703973	0.22	cps
Zirconium	90-1	22809650	23115530	22876924	22934034	0.70	cps
Zirconium	91-1	5034819	5077440	5014827	5042362	0.63	cps

Reviewed By:Mohan
On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	CCB006	Instrumnet Name :	P7
Client Sample ID :	CCB006	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 13:30:51	DataFile Name :	074CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	711	714	558	661	13.53	cps
Antimony	121-1	5348	6021	6995	6121	13.53	cps
Arsenic	75-2	23	17	27	22	22.91	cps
Barium	135-1	2377	1340	650	1456	59.71	cps
Barium	137-1	4461	2094	1277	2610	63.35	cps
Beryllium	9-1	228	228	106	187	37.73	cps
Bismuth	209-1	18994113	20181458	20914623	20030065	4.84	cps
Bismuth	209-2	16345308	16332071	16188114	16288498	0.54	cps
Bromine	81-1	16676	16403	16372	16484	1.02	cps
Bromine	81-2	190	223	197	203	8.68	cps
Cadmium	108-1	100	67	23	63	60.70	cps
Cadmium	106-1	9883	10544	10731	10386	4.29	cps
Cadmium	111-1	7458	7684	7685	7609	1.72	cps
Calcium	43-1	9380	7909	7392	8227	12.54	cps
Calcium	44-1	166774	146806	136067	149882	10.40	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	6985	6832	6612	6809	2.76	cps
Cobalt	59-2	307	303	283	298	4.24	cps
Copper	63-2	4584	4347	4471	4467	2.65	cps
Dysprosium	156-1	283	363	287	311	14.55	cps
Dysprosium	156-2	67	57	70	64	10.76	cps
Erbium	164-1	90	147	117	118	24.07	cps
Erbium	164-2	77	93	63	78	19.33	cps
Gadolinium	160-1	163	120	140	141	15.37	cps
Gadolinium	160-2	1187	1123	1237	1182	4.80	cps
Holmium	165-1	32165227	34135636	34532071	33610978	3.77	cps
Holmium	165-2	23460871	23595418	23448766	23501685	0.35	cps
Indium	115-1	27768533	29945581	30948848	29554320	5.50	cps
Indium	115-2	9927214	9847953	9902256	9892474	0.41	cps
Iron	56-2	49204	46050	44967	46740	4.71	cps
Iron	57-2	2057	1967	1970	1998	2.55	cps
Iron	54-2	5684	5881	5508	5691	3.28	cps
Krypton	83-1	313	337	270	307	11.03	cps

Reviewed By:Mohan
On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	CCB006	Instrumnet Name :	P7
Client Sample ID :	CCB006	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 13:30:51	DataFile Name :	074CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	9670	6208	4344	6741	40.10	cps
Lead	207-1	8306	4898	3711	5638	42.31	cps
Lead	208-1	37805	23588	16998	26130	40.70	cps
Lithium	6-1	3097428	3257695	3244935	3200019	2.78	cps
Magnesium	24-2	5021	4297	4144	4487	10.44	cps
Manganese	55-2	14257	14284	14010	14183	1.06	cps
Molybdenum	94-1	8769	5474	4407	6217	36.58	cps
Molybdenum	95-1	10441	5488	3157	6362	58.47	cps
Molybdenum	96-1	11405	6278	4311	7331	49.96	cps
Molybdenum	97-1	6468	3560	2104	4044	54.95	cps
Molybdenum	98-1	16753	8699	5501	10318	56.19	cps
Neodymium	150-1	17	13	40	23	62.27	cps
Neodymium	150-2	17	10	13	13	25.01	cps
Nickel	60-2	553	607	600	587	4.95	cps
Phosphorus	31-2	337	340	367	348	4.73	cps
Potassium	39-2	84463	82394	81282	82713	1.95	cps
Rhodium	103-1	26829568	28215799	29420140	28155169	4.60	cps
Rhodium	103-2	16508336	16170788	16253056	16310727	1.08	cps
Scandium	45-1	15190601	16410184	16734454	16111746	5.05	cps
Scandium	45-2	1334101	1328432	1308330	1323621	1.02	cps
Selenium	82-1	566	600	635	600	5.77	cps
Selenium	77-2	0	7	0	2	173.21	cps
Selenium	78-2	530	457	467	484	8.21	cps
Silicon	28-1	1291812	1272840	1258081	1274245	1.33	cps
Silver	107-1	3234	1837	1113	2061	52.29	cps
Silver	109-1	2824	1520	973	1772	53.63	cps
Sodium	23-2	104609	102837	101220	102888	1.65	cps
Strontium	86-1	1530	1283	1033	1282	19.37	cps
Strontium	88-1	8749	6465	5074	6763	27.44	cps
Sulfur	34-1	296138	299864	296959	297654	0.66	cps
Terbium	159-1	33133951	34929874	36229021	34764282	4.47	cps
Terbium	159-2	23043153	22989939	23093156	23042083	0.22	cps
Thallium	203-1	2960	1974	1730	2221	29.33	cps
Thallium	205-1	7119	4691	4014	5274	30.95	cps
Tin	118-1	9880	9093	9076	9350	4.91	cps
Titanium	47-1	2404	1260	623	1429	63.12	cps

Reviewed By:Mohan
On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	CCB006	Instrumnet Name :	P7
Client Sample ID :	CCB006	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 13:30:51	DataFile Name :	074CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	4397	2067	887	2450	72.91	cps
Vanadium	51-2	63	77	67	69	10.08	cps
Yttrium	89-1	37546766	39859396	41103534	39503232	4.57	cps
Yttrium	89-2	9569747	9532839	9523759	9542115	0.26	cps
Zinc	66-2	13923	13923	14150	13999	0.94	cps
Zirconium	90-1	8409	7098	7522	7677	8.71	cps
Zirconium	91-1	1920	1550	1660	1710	11.11	cps

Reviewed By:Mohan
On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4879-15	Instrumnet Name :	P7
Client Sample ID :	E29Y3	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 13:34:52	DataFile Name :	075SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	1517723	1464557	1462936	1481739	2.10	cps
Antimony	121-1	3974	4494	4921	4463	10.63	cps
Arsenic	75-2	10541	10374	10287	10400	1.24	cps
Barium	135-1	328288	334013	336016	332772	1.21	cps
Barium	137-1	563752	582667	586503	577641	2.11	cps
Beryllium	9-1	667	694	600	654	7.43	cps
Bismuth	209-1	19121087	19796333	19803367	19573596	2.00	cps
Bismuth	209-2	15540174	15677346	15722946	15646822	0.61	cps
Bromine	81-1	26758	27923	28975	27885	3.98	cps
Bromine	81-2	2370	2334	2550	2418	4.80	cps
Cadmium	108-1	183	197	223	201	10.13	cps
Cadmium	106-1	10551	11371	11605	11175	4.95	cps
Cadmium	111-1	8494	9269	9440	9068	5.56	cps
Calcium	43-1	18397558	19075862	18861274	18778231	1.85	cps
Calcium	44-1	297799129	305546309	304293875	302546438	1.37	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	79659	77870	79294	78941	1.20	cps
Cobalt	59-2	111137	111362	112300	111600	0.55	cps
Copper	63-2	154250	153599	153808	153885	0.22	cps
Dysprosium	156-1	68744	69732	72141	70205	2.49	cps
Dysprosium	156-2	54177	54947	54579	54568	0.71	cps
Erbium	164-1	61967	65185	67023	64725	3.95	cps
Erbium	164-2	43558	44728	44584	44290	1.44	cps
Gadolinium	160-1	70034	72570	72054	71553	1.87	cps
Gadolinium	160-2	52528	52735	51889	52384	0.84	cps
Holmium	165-1	33978862	35328200	35908859	35071974	2.82	cps
Holmium	165-2	23956968	24106135	24072299	24045134	0.33	cps
Indium	115-1	28558987	29686944	29624077	29290003	2.16	cps
Indium	115-2	10016788	10065151	9977698	10019879	0.44	cps
Iron	56-2	125518415	125698891	125354721	125524009	0.14	cps
Iron	57-2	3423852	3417443	3433620	3424972	0.24	cps
Iron	54-2	6773710	6827975	6776235	6792640	0.45	cps
Krypton	83-1	477	467	480	474	1.46	cps

Reviewed By:Mohan
On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4879-15	Instrumnet Name :	P7
Client Sample ID :	E29Y3	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 13:34:52	DataFile Name :	075SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	234958	245764	244403	241708	2.44	cps
Lead	207-1	189621	195756	195866	193747	1.84	cps
Lead	208-1	890233	921358	927734	913108	2.20	cps
Lithium	6-1	3121778	3121681	3031153	3091537	1.69	cps
Magnesium	24-2	107280378	108762438	107870358	107971058	0.69	cps
Manganese	55-2	4716136	4707252	4605429	4676272	1.32	cps
Molybdenum	94-1	36024	38761	40787	38524	6.20	cps
Molybdenum	95-1	13259	14017	14080	13785	3.31	cps
Molybdenum	96-1	20728	20898	21776	21134	2.66	cps
Molybdenum	97-1	8536	8796	8749	8694	1.60	cps
Molybdenum	98-1	20858	22190	22210	21753	3.56	cps
Neodymium	150-1	101908	106135	104819	104288	2.07	cps
Neodymium	150-2	60442	58688	59579	59570	1.47	cps
Nickel	60-2	56533	57643	55911	56696	1.55	cps
Phosphorus	31-2	18178	18301	18024	18168	0.76	cps
Potassium	39-2	767245	783045	780422	776904	1.09	cps
Rhodium	103-1	26698647	27780875	27743646	27407723	2.24	cps
Rhodium	103-2	16169174	16367362	16320622	16285719	0.64	cps
Scandium	45-1	16394922	17011020	16906083	16770675	1.97	cps
Scandium	45-2	1379332	1395489	1404760	1393194	0.92	cps
Selenium	82-1	865	885	894	882	1.67	cps
Selenium	77-2	223	213	257	231	9.82	cps
Selenium	78-2	753	607	653	671	11.17	cps
Silicon	28-1	31288710	31489529	32372427	31716888	1.82	cps
Silver	107-1	2520	2344	2137	2334	8.22	cps
Silver	109-1	2140	1927	1890	1986	6.80	cps
Sodium	23-2	532676	534691	532987	533451	0.20	cps
Strontium	86-1	1620040	1643117	1635872	1633010	0.72	cps
Strontium	88-1	13998452	14458037	14403468	14286652	1.76	cps
Sulfur	34-1	464817	473313	473772	470634	1.07	cps
Terbium	159-1	35058406	36222147	36389974	35890176	2.02	cps
Terbium	159-2	23512145	23607364	23817028	23645512	0.66	cps
Thallium	203-1	5121	4344	4037	4501	12.41	cps
Thallium	205-1	11755	10791	9817	10788	8.98	cps
Tin	118-1	12799	12719	13073	12864	1.44	cps
Titanium	47-1	182650	190114	190527	187764	2.36	cps

Reviewed By:Mohan
On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4879-15	Instrumnet Name :	P7
Client Sample ID :	E29Y3	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 13:34:52	DataFile Name :	075SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	94718	98495	97488	96901	2.02	cps
Vanadium	51-2	98066	99297	99022	98795	0.65	cps
Yttrium	89-1	40595563	42393949	41965000	41651504	2.26	cps
Yttrium	89-2	10132166	10249589	10095829	10159194	0.79	cps
Zinc	66-2	81102	79527	80690	80440	1.02	cps
Zirconium	90-1	83311	83683	83288	83427	0.27	cps
Zirconium	91-1	17714	18642	18762	18373	3.12	cps

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Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4879-16	Instrumnet Name :	P7
Client Sample ID :	E29Y4	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 13:38:03	DataFile Name :	076SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	1063435	1054084	1061478	1059666	0.47	cps
Antimony	121-1	2637	2707	2937	2760	5.69	cps
Arsenic	75-2	5231	5208	5431	5290	2.32	cps
Barium	135-1	243856	250337	250016	248070	1.47	cps
Barium	137-1	415783	430819	436738	427780	2.53	cps
Beryllium	9-1	544	561	472	526	8.98	cps
Bismuth	209-1	20538301	20167743	20432805	20379617	0.94	cps
Bismuth	209-2	16242600	16504873	15948797	16232090	1.71	cps
Bromine	81-1	23716	24457	24624	24266	1.99	cps
Bromine	81-2	1300	1543	1407	1417	8.61	cps
Cadmium	108-1	137	103	107	116	15.89	cps
Cadmium	106-1	11711	11802	11541	11685	1.13	cps
Cadmium	111-1	9232	9572	9328	9377	1.87	cps
Calcium	43-1	11569304	11819297	12070424	11819675	2.12	cps
Calcium	44-1	187355337	191883237	194134090	191124222	1.81	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	58185	59678	58443	58768	1.36	cps
Cobalt	59-2	71911	71898	71024	71611	0.71	cps
Copper	63-2	112408	109057	111146	110870	1.53	cps
Dysprosium	156-1	50320	51785	52538	51547	2.19	cps
Dysprosium	156-2	39656	40355	39713	39908	0.97	cps
Erbium	164-1	43601	45333	47350	45428	4.13	cps
Erbium	164-2	31335	30921	31328	31195	0.76	cps
Gadolinium	160-1	51200	52752	53552	52501	2.28	cps
Gadolinium	160-2	37891	37948	37771	37870	0.24	cps
Holmium	165-1	36244463	36060237	36527871	36277524	0.65	cps
Holmium	165-2	24524454	24814840	24396828	24578707	0.87	cps
Indium	115-1	31381704	30799614	30997031	31059450	0.95	cps
Indium	115-2	10117917	10225001	10005495	10116138	1.09	cps
Iron	56-2	79701819	76664966	78951869	78439551	2.02	cps
Iron	57-2	2156451	2138035	2174714	2156400	0.85	cps
Iron	54-2	4288666	4253996	4212784	4251815	0.89	cps
Krypton	83-1	417	453	427	432	4.39	cps

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LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4879-16	Instrumnet Name :	P7
Client Sample ID :	E29Y4	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 13:38:03	DataFile Name :	076SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	163811	169631	171325	168256	2.34	cps
Lead	207-1	131647	136327	135902	134625	1.92	cps
Lead	208-1	618589	638513	645846	634316	2.22	cps
Lithium	6-1	3318483	3040255	3173584	3177441	4.38	cps
Magnesium	24-2	56938014	55870128	56737627	56515256	1.00	cps
Manganese	55-2	2813502	2705813	2770507	2763274	1.96	cps
Molybdenum	94-1	15178	15822	16603	15868	4.50	cps
Molybdenum	95-1	16526	16803	17244	16858	2.15	cps
Molybdenum	96-1	18962	20044	20167	19725	3.36	cps
Molybdenum	97-1	10104	10817	10514	10478	3.42	cps
Molybdenum	98-1	26748	26861	27179	26929	0.83	cps
Neodymium	150-1	76754	79915	81427	79365	3.00	cps
Neodymium	150-2	45282	45339	46042	45554	0.93	cps
Nickel	60-2	35983	37403	36117	36501	2.15	cps
Phosphorus	31-2	13436	13533	13229	13399	1.16	cps
Potassium	39-2	494387	497016	499393	496932	0.50	cps
Rhodium	103-1	29143983	28763166	28681583	28862911	0.86	cps
Rhodium	103-2	16559988	16664574	16637345	16620636	0.33	cps
Scandium	45-1	17464583	16972846	16945322	17127584	1.71	cps
Scandium	45-2	1408237	1373706	1416366	1399436	1.62	cps
Selenium	82-1	841	707	733	760	9.37	cps
Selenium	77-2	163	173	180	172	4.87	cps
Selenium	78-2	620	647	543	603	8.89	cps
Silicon	28-1	23710481	24122172	24561500	24131385	1.76	cps
Silver	107-1	1653	1713	1723	1697	2.23	cps
Silver	109-1	1413	1357	1453	1408	3.45	cps
Sodium	23-2	411763	414827	411016	412535	0.49	cps
Strontium	86-1	2069780	2113876	2110496	2098051	1.17	cps
Strontium	88-1	17824293	18365353	18485261	18224969	1.93	cps
Sulfur	34-1	429048	427171	427961	428060	0.22	cps
Terbium	159-1	37341406	37099091	36932294	37124264	0.55	cps
Terbium	159-2	23706206	24368170	23451027	23841801	1.99	cps
Thallium	203-1	2964	2857	3050	2957	3.28	cps
Thallium	205-1	7169	7385	7232	7262	1.53	cps
Tin	118-1	72733	73848	73640	73407	0.81	cps
Titanium	47-1	127730	131862	148545	136046	8.10	cps

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LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4879-16	Instrumnet Name :	P7
Client Sample ID :	E29Y4	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 13:38:03	DataFile Name :	076SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	75841	78215	78366	77474	1.83	cps
Vanadium	51-2	66737	66777	66643	66719	0.10	cps
Yttrium	89-1	43127689	42540946	42617341	42761992	0.75	cps
Yttrium	89-2	10145468	10160123	10279324	10194972	0.72	cps
Zinc	66-2	83729	84370	83425	83841	0.58	cps
Zirconium	90-1	16877	17617	17554	17349	2.37	cps
Zirconium	91-1	3667	3697	3884	3749	3.13	cps

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LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4879-17	Instrumnet Name :	P7
Client Sample ID :	E29Y5	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 13:41:13	DataFile Name :	077SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	1171401	1112257	1089653	1124437	3.75	cps
Antimony	121-1	2144	2517	2507	2389	8.91	cps
Arsenic	75-2	6091	6488	6208	6262	3.26	cps
Barium	135-1	217537	219438	218544	218507	0.44	cps
Barium	137-1	373812	378944	382551	378436	1.16	cps
Beryllium	9-1	594	461	500	519	13.22	cps
Bismuth	209-1	19535433	20319900	20562713	20139349	2.67	cps
Bismuth	209-2	16022826	16368867	16086053	16159249	1.14	cps
Bromine	81-1	23566	25025	24674	24421	3.12	cps
Bromine	81-2	1457	1533	1403	1465	4.46	cps
Cadmium	108-1	120	87	97	101	16.92	cps
Cadmium	106-1	11665	11788	11611	11688	0.78	cps
Cadmium	111-1	9168	9274	9160	9201	0.69	cps
Calcium	43-1	11799508	11778584	11882218	11820103	0.46	cps
Calcium	44-1	192282344	190034257	192033957	191450186	0.64	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	57599	57402	57586	57529	0.19	cps
Cobalt	59-2	72199	73107	72748	72685	0.63	cps
Copper	63-2	97236	97002	97823	97354	0.43	cps
Dysprosium	156-1	45988	47637	49604	47743	3.79	cps
Dysprosium	156-2	35836	36217	35455	35836	1.06	cps
Erbium	164-1	40549	42103	42036	41563	2.11	cps
Erbium	164-2	27871	28205	27504	27860	1.26	cps
Gadolinium	160-1	45808	45902	46493	46068	0.81	cps
Gadolinium	160-2	34121	33116	34152	33796	1.74	cps
Holmium	165-1	34558282	36023101	36356859	35646081	2.68	cps
Holmium	165-2	24020847	24373456	23707033	24033779	1.39	cps
Indium	115-1	29564882	30963027	30775018	30434309	2.49	cps
Indium	115-2	10043822	10298000	10023899	10121907	1.51	cps
Iron	56-2	83774104	82319764	81986620	82693496	1.15	cps
Iron	57-2	2276516	2246370	2259618	2260835	0.67	cps
Iron	54-2	4574777	4485979	4535878	4532211	0.98	cps
Krypton	83-1	400	390	437	409	6.01	cps

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Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4879-17	Instrumnet Name :	P7
Client Sample ID :	E29Y5	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 13:41:13	DataFile Name :	077SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	164503	168148	165190	165947	1.17	cps
Lead	207-1	129598	131590	133488	131559	1.48	cps
Lead	208-1	615209	627356	625067	622544	1.04	cps
Lithium	6-1	3105318	3182599	3160987	3149635	1.27	cps
Magnesium	24-2	59756429	57829771	59015322	58867174	1.65	cps
Manganese	55-2	3048319	3009410	3069089	3042273	1.00	cps
Molybdenum	94-1	10611	13224	11041	11625	12.06	cps
Molybdenum	95-1	8613	11896	8649	9719	19.40	cps
Molybdenum	96-1	10921	14808	10958	12229	18.27	cps
Molybdenum	97-1	5268	6576	5564	5803	11.82	cps
Molybdenum	98-1	13907	17919	14300	15376	14.39	cps
Neodymium	150-1	67172	67477	68153	67601	0.74	cps
Neodymium	150-2	38519	38259	37714	38164	1.08	cps
Nickel	60-2	36274	36250	36859	36461	0.94	cps
Phosphorus	31-2	11228	11925	11898	11683	3.38	cps
Potassium	39-2	573341	568224	576889	572818	0.76	cps
Rhodium	103-1	27397290	28241975	28612280	28083848	2.22	cps
Rhodium	103-2	16536846	17080110	16626887	16747948	1.74	cps
Scandium	45-1	16284926	17245922	17075190	16868679	3.04	cps
Scandium	45-2	1381378	1402144	1352411	1378644	1.81	cps
Selenium	82-1	749	775	642	722	9.76	cps
Selenium	77-2	153	130	197	160	21.14	cps
Selenium	78-2	593	613	563	590	4.27	cps
Silicon	28-1	26639325	26648027	26481695	26589682	0.35	cps
Silver	107-1	1353	1930	1667	1650	17.50	cps
Silver	109-1	1273	1547	1417	1412	9.68	cps
Sodium	23-2	401085	403363	412282	405577	1.46	cps
Strontium	86-1	1628531	1661253	1618684	1636156	1.36	cps
Strontium	88-1	14080683	14490714	14414808	14328735	1.52	cps
Sulfur	34-1	430070	426692	423913	426892	0.72	cps
Terbium	159-1	35802219	37259219	37377273	36812904	2.38	cps
Terbium	159-2	23710036	24025058	24286679	24007258	1.20	cps
Thallium	203-1	2570	2570	2834	2658	5.72	cps
Thallium	205-1	6555	6612	6465	6544	1.13	cps
Tin	118-1	14874	14774	15085	14911	1.06	cps
Titanium	47-1	142571	148181	146137	145630	1.95	cps

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Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4879-17	Instrumnet Name :	P7
Client Sample ID :	E29Y5	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 13:41:13	DataFile Name :	077SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	72396	74333	75067	73932	1.87	cps
Vanadium	51-2	72275	71870	70976	71707	0.93	cps
Yttrium	89-1	40619107	42594598	42711599	41975101	2.80	cps
Yttrium	89-2	9967140	10266005	9998343	10077163	1.63	cps
Zinc	66-2	69832	68844	68074	68917	1.28	cps
Zirconium	90-1	16179	18197	17414	17263	5.89	cps
Zirconium	91-1	3621	4117	3687	3808	7.08	cps

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LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4879-18	Instrumnet Name :	P7
Client Sample ID :	E29Y9	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 13:44:25	DataFile Name :	078SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	538956	550685	533563	541068	1.62	cps
Antimony	121-1	1733	1750	1870	1785	4.18	cps
Arsenic	75-2	4744	4504	4651	4633	2.61	cps
Barium	135-1	178329	182246	181706	180761	1.17	cps
Barium	137-1	312537	314976	315894	314469	0.55	cps
Beryllium	9-1	361	339	328	343	4.95	cps
Bismuth	209-1	19705196	19946095	20157442	19936244	1.14	cps
Bismuth	209-2	14676435	14352267	16060162	15029621	6.04	cps
Bromine	81-1	26377	28354	29232	27988	5.23	cps
Bromine	81-2	2314	2444	2254	2337	4.16	cps
Cadmium	108-1	100	110	140	117	17.84	cps
Cadmium	106-1	11782	11868	11575	11741	1.28	cps
Cadmium	111-1	9017	9024	8791	8944	1.48	cps
Calcium	43-1	18085564	18317996	18329437	18244332	0.75	cps
Calcium	44-1	291746229	296178382	295085956	294336856	0.78	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	44619	45191	44987	44932	0.65	cps
Cobalt	59-2	44105	44529	44191	44275	0.51	cps
Copper	63-2	60619	59461	59086	59722	1.34	cps
Dysprosium	156-1	38593	38717	39068	38792	0.63	cps
Dysprosium	156-2	29625	29982	30049	29885	0.76	cps
Erbium	164-1	35204	35495	35508	35403	0.49	cps
Erbium	164-2	23957	24722	23984	24221	1.79	cps
Gadolinium	160-1	39148	39031	40438	39539	1.98	cps
Gadolinium	160-2	28860	28649	28659	28723	0.41	cps
Holmium	165-1	35524111	35940522	35882342	35782325	0.63	cps
Holmium	165-2	22744713	22053107	24532270	23110030	5.54	cps
Indium	115-1	30110275	30324440	30662913	30365876	0.92	cps
Indium	115-2	9350943	9124438	10069468	9514950	5.19	cps
Iron	56-2	56248479	54396136	55267233	55303949	1.68	cps
Iron	57-2	1721391	1665174	1678937	1688501	1.74	cps
Iron	54-2	3132372	2974567	3020191	3042377	2.67	cps
Krypton	83-1	333	403	453	397	15.20	cps

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Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4879-18	Instrumnet Name :	P7
Client Sample ID :	E29Y9	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 13:44:25	DataFile Name :	078SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	119264	118521	119339	119042	0.38	cps
Lead	207-1	91908	93566	93616	93030	1.04	cps
Lead	208-1	437476	442903	443377	441252	0.74	cps
Lithium	6-1	3157091	3038750	3102969	3099604	1.91	cps
Magnesium	24-2	102938588	97938082	100058489	100311720	2.50	cps
Manganese	55-2	3232170	3091190	3158778	3160713	2.23	cps
Molybdenum	94-1	11775	12032	12332	12046	2.31	cps
Molybdenum	95-1	5664	5561	5715	5647	1.39	cps
Molybdenum	96-1	8002	7929	8089	8007	1.00	cps
Molybdenum	97-1	3640	3647	3277	3522	6.01	cps
Molybdenum	98-1	8883	8836	9116	8945	1.68	cps
Neodymium	150-1	56754	57989	57379	57374	1.08	cps
Neodymium	150-2	33306	33406	32685	33132	1.18	cps
Nickel	60-2	19286	19132	19633	19350	1.33	cps
Phosphorus	31-2	8766	8592	8809	8723	1.32	cps
Potassium	39-2	437152	433471	428363	432996	1.02	cps
Rhodium	103-1	28201289	28327279	28221150	28249906	0.24	cps
Rhodium	103-2	15124684	15182600	16329658	15545647	4.37	cps
Scandium	45-1	17154186	17043729	16881615	17026510	0.81	cps
Scandium	45-2	1312101	1289655	1378702	1326819	3.49	cps
Selenium	82-1	901	720	622	748	18.94	cps
Selenium	77-2	113	167	133	138	19.55	cps
Selenium	78-2	517	550	580	549	5.77	cps
Silicon	28-1	13277166	12883111	13215731	13125336	1.62	cps
Silver	107-1	1193	1067	1383	1215	13.12	cps
Silver	109-1	923	1040	1023	996	6.34	cps
Sodium	23-2	510642	500019	503826	504829	1.07	cps
Strontium	86-1	1507458	1529616	1556461	1531178	1.60	cps
Strontium	88-1	13076163	13280818	13411864	13256281	1.28	cps
Sulfur	34-1	405654	406112	407064	406277	0.18	cps
Terbium	159-1	36671591	37284119	37224517	37060076	0.91	cps
Terbium	159-2	22435811	21717947	23898426	22684062	4.90	cps
Thallium	203-1	1687	1500	1553	1580	6.09	cps
Thallium	205-1	3617	3851	3731	3733	3.13	cps
Tin	118-1	9453	10208	9793	9818	3.85	cps
Titanium	47-1	65987	66891	69480	67453	2.69	cps

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LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4879-18	Instrumnet Name :	P7
Client Sample ID :	E29Y9	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 13:44:25	DataFile Name :	078SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	76998	77729	78154	77627	0.75	cps
Vanadium	51-2	57499	58523	58255	58092	0.91	cps
Yttrium	89-1	41508804	42406164	42165399	42026789	1.11	cps
Yttrium	89-2	9460328	9507163	9885353	9617615	2.42	cps
Zinc	66-2	40642	42009	41474	41375	1.66	cps
Zirconium	90-1	23746	24240	25425	24470	3.53	cps
Zirconium	91-1	5328	6958	5258	5848	16.45	cps

Reviewed By:Mohan
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Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4879-19	Instrumnet Name :	P7
Client Sample ID :	E29Z0	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 13:47:35	DataFile Name :	079SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	558157	562571	553266	557998	0.83	cps
Antimony	121-1	1330	1737	1807	1625	15.85	cps
Arsenic	75-2	4551	4224	4531	4435	4.13	cps
Barium	135-1	209186	211986	214379	211850	1.23	cps
Barium	137-1	362989	367835	368245	366356	0.80	cps
Beryllium	9-1	389	394	422	402	4.44	cps
Bismuth	209-1	19587234	19661179	19576953	19608456	0.23	cps
Bismuth	209-2	15891876	15586752	15629437	15702689	1.05	cps
Bromine	81-1	28638	29182	31824	29881	5.70	cps
Bromine	81-2	2714	2864	2634	2737	4.27	cps
Cadmium	108-1	120	133	90	114	19.40	cps
Cadmium	106-1	12068	12035	11558	11887	2.40	cps
Cadmium	111-1	9411	9401	9091	9301	1.96	cps
Calcium	43-1	19163881	19322411	19550263	19345518	1.00	cps
Calcium	44-1	313084575	312025182	315418682	313509480	0.55	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	52498	51909	52003	52136	0.61	cps
Cobalt	59-2	47819	48495	47956	48090	0.74	cps
Copper	63-2	63400	63484	64241	63708	0.73	cps
Dysprosium	156-1	41655	42665	42845	42388	1.51	cps
Dysprosium	156-2	32601	32628	32451	32560	0.29	cps
Erbium	164-1	38403	39810	38854	39022	1.84	cps
Erbium	164-2	26108	26732	26328	26389	1.20	cps
Gadolinium	160-1	42631	43651	43504	43262	1.27	cps
Gadolinium	160-2	31592	31596	31589	31592	0.01	cps
Holmium	165-1	35181545	35625980	35636563	35481363	0.73	cps
Holmium	165-2	24319183	24114924	23859060	24097722	0.96	cps
Indium	115-1	29999792	30080706	30540423	30206974	0.97	cps
Indium	115-2	10195797	10045197	10023973	10088323	0.93	cps
Iron	56-2	50536044	50990383	50971074	50832500	0.51	cps
Iron	57-2	1585315	1621970	1614558	1607281	1.21	cps
Iron	54-2	2780997	2810997	2827564	2806520	0.84	cps
Krypton	83-1	477	470	420	456	6.80	cps

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Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4879-19	Instrumnet Name :	P7
Client Sample ID :	E29Z0	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 13:47:35	DataFile Name :	079SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	142973	145614	145856	144814	1.10	cps
Lead	207-1	111956	114110	114258	113442	1.14	cps
Lead	208-1	531304	539401	541346	537351	0.99	cps
Lithium	6-1	2971155	3097039	3034010	3034068	2.07	cps
Magnesium	24-2	109673162	110371235	110355258	110133218	0.36	cps
Manganese	55-2	3459512	3385098	3460317	3434976	1.26	cps
Molybdenum	94-1	9913	10177	10050	10047	1.31	cps
Molybdenum	95-1	5028	5031	5248	5102	2.47	cps
Molybdenum	96-1	6995	7152	7272	7140	1.94	cps
Molybdenum	97-1	3194	3100	3207	3167	1.84	cps
Molybdenum	98-1	8009	8349	8426	8261	2.69	cps
Neodymium	150-1	62735	62933	64215	63294	1.27	cps
Neodymium	150-2	35902	36718	36885	36502	1.44	cps
Nickel	60-2	21432	22060	21268	21587	1.93	cps
Phosphorus	31-2	10454	10347	10043	10281	2.07	cps
Potassium	39-2	416721	417427	429766	421305	1.74	cps
Rhodium	103-1	27942149	27739820	28025050	27902339	0.53	cps
Rhodium	103-2	16362871	16443647	16574112	16460210	0.65	cps
Scandium	45-1	17050750	17031004	16849746	16977167	0.65	cps
Scandium	45-2	1370850	1356674	1377310	1368278	0.77	cps
Selenium	82-1	734	672	768	725	6.70	cps
Selenium	77-2	163	103	103	123	28.09	cps
Selenium	78-2	560	560	590	570	3.04	cps
Silicon	28-1	12646761	14150104	12808146	13201670	6.25	cps
Silver	107-1	1337	1320	1400	1352	3.12	cps
Silver	109-1	1120	1137	1180	1146	2.70	cps
Sodium	23-2	538172	530681	542458	537104	1.11	cps
Strontium	86-1	1789497	1830020	1825907	1815141	1.23	cps
Strontium	88-1	15547104	15795424	15832815	15725114	0.99	cps
Sulfur	34-1	388476	387323	388282	388027	0.16	cps
Terbium	159-1	36502448	36494450	36415324	36470741	0.13	cps
Terbium	159-2	24075644	23517629	23843672	23812315	1.18	cps
Thallium	203-1	1567	1787	1653	1669	6.64	cps
Thallium	205-1	4057	3914	4047	4006	2.00	cps
Tin	118-1	9043	9490	9553	9362	2.97	cps
Titanium	47-1	51444	58483	49732	53220	8.71	cps

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Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4879-19	Instrumnet Name :	P7
Client Sample ID :	E29Z0	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 13:47:35	DataFile Name :	079SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	80023	80016	82870	80969	2.03	cps
Vanadium	51-2	64922	64865	64577	64788	0.29	cps
Yttrium	89-1	42091159	42363811	42061541	42172170	0.40	cps
Yttrium	89-2	10115587	10165063	10166498	10149049	0.29	cps
Zinc	66-2	47358	47178	47027	47188	0.35	cps
Zirconium	90-1	19189	18959	19196	19115	0.71	cps
Zirconium	91-1	4297	4091	4547	4312	5.31	cps

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Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4879-20	Instrumnet Name :	P7
Client Sample ID :	E29Y6	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 13:50:46	DataFile Name :	080SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	898995	897309	891797	896034	0.42	cps
Antimony	121-1	1947	1930	1947	1941	0.50	cps
Arsenic	75-2	5965	5738	6131	5945	3.32	cps
Barium	135-1	700312	708957	708642	705970	0.69	cps
Barium	137-1	1211606	1210027	1220576	1214070	0.47	cps
Beryllium	9-1	617	489	500	535	13.23	cps
Bismuth	209-1	19257739	19230017	19395660	19294472	0.46	cps
Bismuth	209-2	15341232	15481776	15468914	15430641	0.50	cps
Bromine	81-1	28090	28948	30876	29305	4.87	cps
Bromine	81-2	2697	2777	2857	2777	2.88	cps
Cadmium	108-1	110	137	133	127	11.47	cps
Cadmium	106-1	11691	11271	11451	11471	1.84	cps
Cadmium	111-1	9417	9071	9283	9257	1.89	cps
Calcium	43-1	24250250	24833025	24532028	24538435	1.19	cps
Calcium	44-1	393368674	401542794	400266634	398392701	1.10	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	52575	53394	53678	53216	1.08	cps
Cobalt	59-2	54539	54659	55224	54807	0.67	cps
Copper	63-2	89254	90421	91729	90468	1.37	cps
Dysprosium	156-1	55111	55690	55318	55373	0.53	cps
Dysprosium	156-2	42935	42835	42715	42828	0.26	cps
Erbium	164-1	48694	50066	48731	49164	1.59	cps
Erbium	164-2	33330	33286	33453	33356	0.26	cps
Gadolinium	160-1	56426	57015	57598	57013	1.03	cps
Gadolinium	160-2	41622	41314	41257	41398	0.47	cps
Holmium	165-1	35386284	35295278	34927799	35203120	0.69	cps
Holmium	165-2	24040655	23727715	23571571	23779980	1.00	cps
Indium	115-1	29918815	29553886	30000856	29824519	0.80	cps
Indium	115-2	9898062	9907420	9904612	9903365	0.05	cps
Iron	56-2	71678902	71840004	70599729	71372878	0.94	cps
Iron	57-2	2256705	2196120	2184083	2212303	1.76	cps
Iron	54-2	3896551	3954741	3866430	3905907	1.15	cps
Krypton	83-1	373	517	390	427	18.37	cps

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Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4879-20	Instrumnet Name :	P7
Client Sample ID :	E29Y6	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 13:50:46	DataFile Name :	080SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	137850	140127	141127	139702	1.20	cps
Lead	207-1	109423	110629	110102	110052	0.55	cps
Lead	208-1	517489	522102	522602	520731	0.54	cps
Lithium	6-1	3042246	2989249	2956772	2996089	1.44	cps
Magnesium	24-2	130247655	133869221	131619521	131912132	1.39	cps
Manganese	55-2	4734894	4765446	4677273	4725871	0.95	cps
Molybdenum	94-1	8536	8729	8693	8653	1.19	cps
Molybdenum	95-1	6015	6111	5775	5967	2.91	cps
Molybdenum	96-1	7862	8212	8122	8066	2.25	cps
Molybdenum	97-1	3560	3570	3901	3677	5.26	cps
Molybdenum	98-1	9663	9990	9540	9731	2.39	cps
Neodymium	150-1	80655	81212	82160	81343	0.94	cps
Neodymium	150-2	47312	46430	46684	46808	0.97	cps
Nickel	60-2	27966	27946	27365	27759	1.23	cps
Phosphorus	31-2	11491	11258	11368	11372	1.03	cps
Potassium	39-2	511057	513033	513151	512414	0.23	cps
Rhodium	103-1	27620725	27434695	27839335	27631585	0.73	cps
Rhodium	103-2	16121188	16032428	16162138	16105251	0.41	cps
Scandium	45-1	16938736	16727811	16849354	16838634	0.63	cps
Scandium	45-2	1369684	1365538	1396953	1377392	1.24	cps
Selenium	82-1	960	899	867	909	5.21	cps
Selenium	77-2	177	193	153	174	11.52	cps
Selenium	78-2	567	637	653	619	7.43	cps
Silicon	28-1	21918300	21627877	21578976	21708384	0.84	cps
Silver	107-1	1327	1347	1420	1365	3.60	cps
Silver	109-1	1127	1227	1340	1231	8.67	cps
Sodium	23-2	632231	636253	635952	634812	0.35	cps
Strontium	86-1	3293972	3291557	3268491	3284674	0.43	cps
Strontium	88-1	28742335	28397190	28708164	28615897	0.66	cps
Sulfur	34-1	396856	394021	392295	394391	0.58	cps
Terbium	159-1	36572298	36488157	36434571	36498342	0.19	cps
Terbium	159-2	23779587	23417960	23438615	23545387	0.86	cps
Thallium	203-1	2080	2180	2107	2122	2.44	cps
Thallium	205-1	5048	5161	5334	5181	2.79	cps
Tin	118-1	10420	9984	10484	10296	2.65	cps
Titanium	47-1	74922	84912	74338	78058	7.61	cps

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Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4879-20	Instrumnet Name :	P7
Client Sample ID :	E29Y6	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 13:50:46	DataFile Name :	080SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	91070	91506	93517	92031	1.42	cps
Vanadium	51-2	72912	72406	72945	72754	0.42	cps
Yttrium	89-1	41854783	41990250	42328141	42057725	0.58	cps
Yttrium	89-2	10183044	10030620	10140170	10117945	0.78	cps
Zinc	66-2	59572	59180	58812	59188	0.64	cps
Zirconium	90-1	14417	14978	15218	14871	2.76	cps
Zirconium	91-1	3280	3090	3270	3214	3.33	cps

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Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4879-21	Instrumnet Name :	P7
Client Sample ID :	E29Y7	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 13:53:55	DataFile Name :	081SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	2085228	2054164	2060186	2066526	0.80	cps
Antimony	121-1	2310	2454	2340	2368	3.19	cps
Arsenic	75-2	8022	7999	8199	8073	1.36	cps
Barium	135-1	530589	544023	539907	538173	1.28	cps
Barium	137-1	937619	943620	942477	941239	0.34	cps
Beryllium	9-1	961	1078	967	1002	6.57	cps
Bismuth	209-1	20553244	20185496	20504586	20414442	0.98	cps
Bismuth	209-2	16144409	15930087	15924447	15999648	0.78	cps
Bromine	81-1	22824	23122	23796	23247	2.14	cps
Bromine	81-2	1447	1353	1430	1410	3.53	cps
Cadmium	108-1	110	137	107	118	13.96	cps
Cadmium	106-1	11835	11184	11365	11461	2.93	cps
Cadmium	111-1	9421	9093	9127	9214	1.95	cps
Calcium	43-1	9008877	8985467	8962990	8985778	0.26	cps
Calcium	44-1	144072815	145390978	145734335	145066042	0.60	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	77240	76805	76858	76967	0.31	cps
Cobalt	59-2	95448	95565	95243	95419	0.17	cps
Copper	63-2	172742	171218	171518	171826	0.47	cps
Dysprosium	156-1	55148	55225	55653	55342	0.49	cps
Dysprosium	156-2	42538	42317	42300	42385	0.31	cps
Erbium	164-1	49962	51812	50768	50848	1.82	cps
Erbium	164-2	34670	33784	33778	34077	1.51	cps
Gadolinium	160-1	56152	57089	57086	56776	0.95	cps
Gadolinium	160-2	40876	40893	41294	41021	0.58	cps
Holmium	165-1	36084999	35726975	36282800	36031592	0.78	cps
Holmium	165-2	24012784	23835993	23548829	23799202	0.98	cps
Indium	115-1	30673406	30049106	30449895	30390802	1.04	cps
Indium	115-2	9997416	9939038	9758746	9898400	1.26	cps
Iron	56-2	112828688	112743888	110300408	111957662	1.28	cps
Iron	57-2	2964614	2917922	2917232	2933256	0.93	cps
Iron	54-2	6102528	6098146	6067614	6089429	0.31	cps
Krypton	83-1	463	350	437	417	14.22	cps

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LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4879-21	Instrumnet Name :	P7
Client Sample ID :	E29Y7	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 13:53:55	DataFile Name :	081SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	286558	292906	291806	290423	1.17	cps
Lead	207-1	232483	237675	237088	235749	1.21	cps
Lead	208-1	1093875	1107665	1114950	1105496	0.97	cps
Lithium	6-1	3289285	3141475	3187642	3206134	2.36	cps
Magnesium	24-2	39737822	39120656	39688009	39515496	0.87	cps
Manganese	55-2	2757413	2790735	2722420	2756856	1.24	cps
Molybdenum	94-1	13049	13336	13700	13362	2.44	cps
Molybdenum	95-1	8893	8960	9303	9052	2.43	cps
Molybdenum	96-1	12028	12545	12329	12301	2.11	cps
Molybdenum	97-1	5731	5454	5755	5647	2.96	cps
Molybdenum	98-1	14104	14467	14824	14465	2.49	cps
Neodymium	150-1	82704	83821	84796	83774	1.25	cps
Neodymium	150-2	47142	47135	46938	47072	0.25	cps
Nickel	60-2	50980	50428	50528	50645	0.58	cps
Phosphorus	31-2	11658	11995	11781	11811	1.44	cps
Potassium	39-2	559466	553316	550634	554472	0.82	cps
Rhodium	103-1	28465552	28118792	28827891	28470745	1.25	cps
Rhodium	103-2	16700313	16161646	16234072	16365344	1.79	cps
Scandium	45-1	16838255	16720762	16774968	16777995	0.35	cps
Scandium	45-2	1360807	1344425	1321068	1342100	1.49	cps
Selenium	82-1	728	834	691	751	9.91	cps
Selenium	77-2	253	153	177	194	26.91	cps
Selenium	78-2	567	600	547	571	4.72	cps
Silicon	28-1	44695291	44754976	44406011	44618759	0.42	cps
Silver	107-1	2060	2060	2240	2120	4.90	cps
Silver	109-1	1970	1880	2060	1970	4.57	cps
Sodium	23-2	356552	356579	356249	356460	0.05	cps
Strontium	86-1	2786143	2769972	2800150	2785422	0.54	cps
Strontium	88-1	24183678	24262605	24174720	24207001	0.20	cps
Sulfur	34-1	364566	356876	356877	359440	1.24	cps
Terbium	159-1	36693470	37008208	36801380	36834353	0.43	cps
Terbium	159-2	23784262	23669160	23088875	23514099	1.59	cps
Thallium	203-1	2440	2720	2520	2560	5.63	cps
Thallium	205-1	6101	6101	6178	6127	0.72	cps
Tin	118-1	12876	13516	13393	13262	2.56	cps
Titanium	47-1	121655	121479	122246	121793	0.33	cps

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Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4879-21	Instrumnet Name :	P7
Client Sample ID :	E29Y7	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 13:53:55	DataFile Name :	081SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	64368	65427	65762	65186	1.12	cps
Vanadium	51-2	95915	96114	95537	95855	0.31	cps
Yttrium	89-1	42210766	40858407	42253379	41774184	1.90	cps
Yttrium	89-2	9932287	9807348	9794486	9844707	0.77	cps
Zinc	66-2	90730	90120	89720	90190	0.56	cps
Zirconium	90-1	21266	21713	21776	21585	1.29	cps
Zirconium	91-1	4647	4514	5038	4733	5.75	cps

Reviewed By:Mohan
On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	CCV007	Instrumnet Name :	P7
Client Sample ID :	CCV007	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 13:58:17	DataFile Name :	082CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	26575040	25727322	26350573	26217645	1.68	cps
Antimony	121-1	12769908	12790146	12864722	12808258	0.39	cps
Arsenic	75-2	651270	647510	643162	647314	0.63	cps
Barium	135-1	15367739	15328568	15589945	15428751	0.91	cps
Barium	137-1	26441552	26570453	26552341	26521449	0.26	cps
Beryllium	9-1	1254634	1267203	1249338	1257059	0.73	cps
Bismuth	209-1	18701559	18608363	18695607	18668509	0.28	cps
Bismuth	209-2	14478617	14612376	14820745	14637246	1.18	cps
Bromine	81-1	16946	16957	17290	17064	1.15	cps
Bromine	81-2	163	160	160	161	1.20	cps
Cadmium	108-1	249511	249185	248153	248950	0.28	cps
Cadmium	106-1	353927	358722	354108	355586	0.76	cps
Cadmium	111-1	3459297	3457442	3352938	3423226	1.78	cps
Calcium	43-1	16545544	16655553	16364550	16521882	0.89	cps
Calcium	44-1	268402456	266644003	265975829	267007429	0.47	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	5014965	5018341	5017357	5016888	0.03	cps
Cobalt	59-2	8216431	8103708	8167228	8162456	0.69	cps
Copper	63-2	61389806	60279407	60814039	60827751	0.91	cps
Dysprosium	156-1	710	820	733	754	7.68	cps
Dysprosium	156-2	1007	1053	953	1004	4.98	cps
Erbium	164-1	673	710	677	687	2.95	cps
Erbium	164-2	473	497	453	474	4.57	cps
Gadolinium	160-1	657	677	650	661	2.10	cps
Gadolinium	160-2	1437	1500	1430	1456	2.65	cps
Holmium	165-1	34365116	34451053	33748239	34188136	1.12	cps
Holmium	165-2	22835853	22969714	23064837	22956801	0.50	cps
Indium	115-1	27849808	28162633	27938397	27983613	0.58	cps
Indium	115-2	9337636	9362884	9450004	9383508	0.63	cps
Iron	56-2	1122819663	1108558010	1120823290	1117400321	0.69	cps
Iron	57-2	28005185	28116420	27857046	27992884	0.46	cps
Iron	54-2	61465171	61128846	60469692	61021236	0.83	cps
Krypton	83-1	367	377	417	387	6.84	cps

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	CCV007	Instrumnet Name :	P7
Client Sample ID :	CCV007	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 13:58:17	DataFile Name :	082CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	43309056	43501736	43184851	43331881	0.37	cps
Lead	207-1	37891129	38208566	38198306	38099334	0.47	cps
Lead	208-1	173460171	173653551	174249536	173787752	0.24	cps
Lithium	6-1	3335149	3242414	3174948	3250837	2.47	cps
Magnesium	24-2	228844723	225955017	227463837	227421192	0.64	cps
Manganese	55-2	37624881	37272996	37384138	37427338	0.48	cps
Molybdenum	94-1	46537808	46195499	46047836	46260381	0.54	cps
Molybdenum	95-1	67545304	67064796	66512819	67040973	0.77	cps
Molybdenum	96-1	73528796	74314212	72757092	73533367	1.06	cps
Molybdenum	97-1	41175245	42071377	41446227	41564283	1.11	cps
Molybdenum	98-1	107447422	107511818	107905608	107621616	0.23	cps
Neodymium	150-1	993	863	960	939	7.19	cps
Neodymium	150-2	300	297	257	284	8.48	cps
Nickel	60-2	2105861	2047586	2082403	2078617	1.41	cps
Phosphorus	31-2	245719	245880	245868	245822	0.04	cps
Potassium	39-2	129709771	129939641	127433408	129027607	1.07	cps
Rhodium	103-1	25485305	26015234	25644544	25715027	1.06	cps
Rhodium	103-2	14854509	14656777	14964762	14825349	1.05	cps
Scandium	45-1	16333527	16203393	16034678	16190533	0.93	cps
Scandium	45-2	1319289	1314867	1312112	1315422	0.28	cps
Selenium	82-1	200460	201527	199332	200440	0.55	cps
Selenium	77-2	18949	18518	18999	18822	1.40	cps
Selenium	78-2	63201	62401	62220	62607	0.83	cps
Silicon	28-1	22293944	22234922	22130733	22219866	0.37	cps
Silver	107-1	16754626	16868935	16752710	16792090	0.40	cps
Silver	109-1	16193488	16063943	16001314	16086248	0.61	cps
Sodium	23-2	353699755	356525581	355787915	355337750	0.41	cps
Strontium	86-1	4129770	4198850	4130726	4153115	0.95	cps
Strontium	88-1	35855876	36369192	35513047	35912705	1.20	cps
Sulfur	34-1	1356915	1337609	1339671	1344732	0.79	cps
Terbium	159-1	34993414	35251883	34969177	35071491	0.45	cps
Terbium	159-2	22683330	22456052	22790114	22643165	0.75	cps
Thallium	203-1	10973784	11015492	10851427	10946901	0.78	cps
Thallium	205-1	26189580	26315645	26003604	26169610	0.60	cps
Tin	118-1	10406136	10677261	10663164	10582187	1.44	cps
Titanium	47-1	16111509	16024631	15995076	16043739	0.38	cps

Reviewed By:Mohan
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Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	CCV007	Instrumnet Name :	P7
Client Sample ID :	CCV007	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 13:58:17	DataFile Name :	082CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	33345609	33601362	32937038	33294670	1.01	cps
Vanadium	51-2	4460860	4438955	4400963	4433593	0.68	cps
Yttrium	89-1	38954983	39282256	39242904	39160048	0.46	cps
Yttrium	89-2	9409270	9393375	9492703	9431783	0.57	cps
Zinc	66-2	9622748	9426330	9544951	9531343	1.04	cps
Zirconium	90-1	22489757	22696157	22457148	22547687	0.57	cps
Zirconium	91-1	4923447	4935999	4894728	4918058	0.43	cps

Reviewed By:Mohan
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Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	CCB007	Instrumnet Name :	P7
Client Sample ID :	CCB007	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 14:00:57	DataFile Name :	083CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	677	604	664	648	6.03	cps
Antimony	121-1	4911	5664	7245	5940	20.06	cps
Arsenic	75-2	37	30	30	32	11.95	cps
Barium	135-1	1953	1147	793	1298	45.82	cps
Barium	137-1	3607	2267	1233	2369	50.24	cps
Beryllium	9-1	272	217	167	219	24.16	cps
Bismuth	209-1	19865616	19837998	19980352	19894655	0.38	cps
Bismuth	209-2	16082494	16369991	16672430	16374971	1.80	cps
Bromine	81-1	16766	16209	16026	16334	2.36	cps
Bromine	81-2	127	123	110	120	7.35	cps
Cadmium	108-1	60	47	50	52	13.28	cps
Cadmium	106-1	10541	10294	10054	10296	2.37	cps
Cadmium	111-1	7913	7493	7209	7538	4.70	cps
Calcium	43-1	8983	8092	7512	8196	9.04	cps
Calcium	44-1	159708	145921	136451	147360	7.94	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	6825	6628	6568	6674	2.01	cps
Cobalt	59-2	377	383	373	378	1.35	cps
Copper	63-2	4547	4127	4227	4301	5.10	cps
Dysprosium	156-1	67	107	150	108	38.67	cps
Dysprosium	156-2	27	27	50	34	39.10	cps
Erbium	164-1	127	140	133	133	5.00	cps
Erbium	164-2	113	90	63	89	28.15	cps
Gadolinium	160-1	153	107	110	123	21.11	cps
Gadolinium	160-2	1230	1083	1113	1142	6.78	cps
Holmium	165-1	33693203	33595199	34031170	33773191	0.68	cps
Holmium	165-2	23178969	23244965	23558760	23327565	0.87	cps
Indium	115-1	28845819	29127433	28975322	28982858	0.49	cps
Indium	115-2	9819063	9765093	9892310	9825489	0.65	cps
Iron	56-2	48903	47053	45261	47072	3.87	cps
Iron	57-2	2003	2204	1957	2055	6.38	cps
Iron	54-2	5704	5344	5371	5473	3.67	cps
Krypton	83-1	307	303	310	307	1.09	cps

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	CCB007	Instrumnet Name :	P7
Client Sample ID :	CCB007	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 14:00:57	DataFile Name :	083CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	8596	6058	4461	6372	32.73	cps
Lead	207-1	7285	5194	3887	5456	31.42	cps
Lead	208-1	34738	24095	17541	25458	34.09	cps
Lithium	6-1	3257089	3322974	3389607	3323223	1.99	cps
Magnesium	24-2	4851	4707	4381	4646	5.19	cps
Manganese	55-2	14230	14180	13566	13992	2.64	cps
Molybdenum	94-1	7575	5268	4771	5871	25.49	cps
Molybdenum	95-1	8789	5094	3387	5757	47.97	cps
Molybdenum	96-1	9540	5981	3834	6452	44.67	cps
Molybdenum	97-1	5341	3300	2174	3605	44.54	cps
Molybdenum	98-1	13570	8119	5521	9070	45.29	cps
Neodymium	150-1	27	33	37	32	15.80	cps
Neodymium	150-2	13	3	3	7	86.65	cps
Nickel	60-2	703	690	607	667	7.86	cps
Phosphorus	31-2	350	357	367	358	2.34	cps
Potassium	39-2	82257	82435	82177	82290	0.16	cps
Rhodium	103-1	27902463	27519577	28069876	27830639	1.01	cps
Rhodium	103-2	16240038	16240021	16231441	16237166	0.03	cps
Scandium	45-1	16035674	15787163	15955681	15926173	0.80	cps
Scandium	45-2	1301081	1306855	1307604	1305180	0.27	cps
Selenium	82-1	621	503	601	575	10.97	cps
Selenium	77-2	0	0	0	0	0.00	cps
Selenium	78-2	497	537	547	527	5.02	cps
Silicon	28-1	1274331	1251073	1227234	1250879	1.88	cps
Silver	107-1	3327	2054	1370	2250	44.14	cps
Silver	109-1	3337	1974	1183	2165	50.33	cps
Sodium	23-2	98462	97764	96043	97423	1.28	cps
Strontium	86-1	1467	1190	1120	1259	14.56	cps
Strontium	88-1	8756	6558	5184	6833	26.37	cps
Sulfur	34-1	307237	303977	303953	305055	0.62	cps
Terbium	159-1	34592209	34287009	34924956	34601391	0.92	cps
Terbium	159-2	22949493	22928050	23315795	23064446	0.94	cps
Thallium	203-1	3144	2317	1873	2445	26.37	cps
Thallium	205-1	7696	5658	4207	5854	29.94	cps
Tin	118-1	9276	9030	9300	9202	1.63	cps
Titanium	47-1	1947	1073	693	1238	51.92	cps

Reviewed By:Mohan
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Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	CCB007	Instrumnet Name :	P7
Client Sample ID :	CCB007	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 14:00:57	DataFile Name :	083CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	3611	1947	900	2152	63.50	cps
Vanadium	51-2	60	70	97	76	25.09	cps
Yttrium	89-1	39035022	38891891	38759910	38895608	0.35	cps
Yttrium	89-2	9438369	9472766	9357690	9422942	0.63	cps
Zinc	66-2	13890	14110	13646	13882	1.67	cps
Zirconium	90-1	7939	7062	7682	7561	5.96	cps
Zirconium	91-1	1900	1513	1553	1656	12.84	cps

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Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4831-03	Instrumnet Name :	P7
Client Sample ID :	E29S4S	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 14:04:14	DataFile Name :	084SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	857391	871403	862441	863745	0.82	cps
Antimony	121-1	2556215	2547471	2539493	2547726	0.33	cps
Arsenic	75-2	52429	51442	51817	51896	0.96	cps
Barium	135-1	12425783	12574049	12312782	12437538	1.05	cps
Barium	137-1	21356970	21399035	21327876	21361294	0.17	cps
Beryllium	9-1	118979	120934	118375	119429	1.12	cps
Bismuth	209-1	19370456	19385587	19727278	19494440	1.04	cps
Bismuth	209-2	15552787	15835247	15897184	15761739	1.16	cps
Bromine	81-1	53657	63881	70035	62525	13.23	cps
Bromine	81-2	10390	10641	10987	10673	2.81	cps
Cadmium	108-1	21279	20772	20995	21015	1.21	cps
Cadmium	106-1	40022	39774	39163	39653	1.12	cps
Cadmium	111-1	329421	332558	326379	329452	0.94	cps
Calcium	43-1	6495227	6488622	6549732	6511194	0.52	cps
Calcium	44-1	104871998	104828322	105036455	104912258	0.10	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	2044359	1992685	2003416	2013487	1.35	cps
Cobalt	59-2	8049535	7811581	7769733	7876949	1.92	cps
Copper	63-2	2781184	2753881	2691224	2742096	1.68	cps
Dysprosium	156-1	233	253	227	238	5.84	cps
Dysprosium	156-2	583	573	587	581	1.19	cps
Erbium	164-1	247	223	227	232	5.43	cps
Erbium	164-2	193	187	113	164	26.99	cps
Gadolinium	160-1	177	200	190	189	6.20	cps
Gadolinium	160-2	1237	1250	1203	1230	1.95	cps
Holmium	165-1	33943364	34223842	34250012	34139073	0.50	cps
Holmium	165-2	23182380	23490076	23738640	23470365	1.19	cps
Indium	115-1	29067084	29099804	29119288	29095392	0.09	cps
Indium	115-2	9531077	9762314	9638660	9644017	1.20	cps
Iron	56-2	9070475	9158599	9192840	9140638	0.69	cps
Iron	57-2	324203	325409	325726	325113	0.25	cps
Iron	54-2	560709	562436	559799	560981	0.24	cps
Krypton	83-1	257	323	310	297	11.89	cps

Reviewed By:Mohan
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Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4831-03	Instrumnet Name :	P7
Client Sample ID :	E29S4S	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 14:04:14	DataFile Name :	084SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	344062	349098	350021	347727	0.92	cps
Lead	207-1	295707	299076	301780	298854	1.02	cps
Lead	208-1	1361017	1376853	1379481	1372450	0.73	cps
Lithium	6-1	3357400	3277196	3316513	3317036	1.21	cps
Magnesium	24-2	28080453	27848443	27750220	27893039	0.61	cps
Manganese	55-2	3694484	3722745	3666981	3694736	0.75	cps
Molybdenum	94-1	39784	39968	40142	39964	0.45	cps
Molybdenum	95-1	67766	67609	66848	67408	0.73	cps
Molybdenum	96-1	73631	73909	73212	73584	0.48	cps
Molybdenum	97-1	42291	42522	42555	42456	0.34	cps
Molybdenum	98-1	109678	109487	109080	109415	0.28	cps
Neodymium	150-1	590	547	633	590	7.35	cps
Neodymium	150-2	170	160	170	167	3.46	cps
Nickel	60-2	2065193	2024110	2024102	2037802	1.16	cps
Phosphorus	31-2	20060	19603	19820	19827	1.15	cps
Potassium	39-2	5565879	5572250	5594615	5577581	0.27	cps
Rhodium	103-1	26805425	27079127	26965506	26950019	0.51	cps
Rhodium	103-2	15504937	15652192	15474637	15543922	0.61	cps
Scandium	45-1	16244482	16022192	16406792	16224489	1.19	cps
Scandium	45-2	1319213	1286949	1328535	1311566	1.66	cps
Selenium	82-1	39706	40239	39514	39819	0.94	cps
Selenium	77-2	3761	3590	3630	3660	2.43	cps
Selenium	78-2	12682	12529	12686	12632	0.71	cps
Silicon	28-1	73588732	74422037	72020922	73343897	1.66	cps
Silver	107-1	1618030	1630924	1623217	1624057	0.40	cps
Silver	109-1	1519623	1506570	1505487	1510560	0.52	cps
Sodium	23-2	112553538	112598405	113423658	112858534	0.43	cps
Strontium	86-1	1672844	1665888	1682506	1673746	0.50	cps
Strontium	88-1	14669972	14610505	14781442	14687306	0.59	cps
Sulfur	34-1	1593303	1587706	1575604	1585538	0.57	cps
Terbium	159-1	35122340	35319894	35212191	35218142	0.28	cps
Terbium	159-2	23252404	23325540	23077872	23218605	0.55	cps
Thallium	203-1	1056145	1082982	1081351	1073493	1.40	cps
Thallium	205-1	2594606	2658121	2617001	2623243	1.23	cps
Tin	118-1	8853	8910	8813	8858	0.55	cps
Titanium	47-1	2124	2097	2000	2073	3.13	cps

Reviewed By:Mohan
On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	P4831-03	Instrumnet Name :	P7
Client Sample ID :	E29S4S	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 14:04:14	DataFile Name :	084SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	49334	49602	48863	49266	0.76	cps
Vanadium	51-2	4369900	4267659	4264450	4300670	1.39	cps
Yttrium	89-1	39269334	39277580	39355182	39300699	0.12	cps
Yttrium	89-2	9422931	9413541	9376796	9404423	0.26	cps
Zinc	66-2	897789	913463	901054	904102	0.91	cps
Zirconium	90-1	4174	4104	4551	4276	5.62	cps
Zirconium	91-1	1033	953	1230	1072	13.28	cps

Reviewed By:Mohan
On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	CCV008	Instrumnet Name :	P7
Client Sample ID :	CCV008	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 14:45:32	DataFile Name :	085CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	24832474	24266552	24415384	24504804	1.20	cps
Antimony	121-1	11366182	11481144	11377331	11408219	0.56	cps
Arsenic	75-2	589939	589707	595150	591599	0.52	cps
Barium	135-1	13907705	13853849	13867060	13876205	0.20	cps
Barium	137-1	23588994	23912572	23970998	23824188	0.86	cps
Beryllium	9-1	1220125	1225435	1213357	1219639	0.50	cps
Bismuth	209-1	17525493	17537231	17356958	17473228	0.58	cps
Bismuth	209-2	13865974	13881104	14021918	13922999	0.62	cps
Bromine	81-1	15245	15345	15071	15220	0.91	cps
Bromine	81-2	150	133	150	144	6.66	cps
Cadmium	108-1	217876	222863	222752	221164	1.29	cps
Cadmium	106-1	315942	317693	316776	316803	0.28	cps
Cadmium	111-1	3068917	3071561	3035448	3058642	0.66	cps
Calcium	43-1	14715993	15054936	15135133	14968687	1.49	cps
Calcium	44-1	240028130	245212630	242688676	242643145	1.07	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	4583892	4594185	4668820	4615632	1.00	cps
Cobalt	59-2	7757589	7646626	7639829	7681348	0.86	cps
Copper	63-2	55752394	54926854	55844768	55508005	0.91	cps
Dysprosium	156-1	663	557	627	616	8.80	cps
Dysprosium	156-2	927	987	870	928	6.29	cps
Erbium	164-1	730	620	657	669	8.37	cps
Erbium	164-2	447	367	423	412	9.98	cps
Gadolinium	160-1	537	553	617	569	7.42	cps
Gadolinium	160-2	1443	1400	1380	1408	2.30	cps
Holmium	165-1	32062210	31481153	31291267	31611543	1.27	cps
Holmium	165-2	21636257	22041384	21869931	21849191	0.93	cps
Indium	115-1	26185017	25863942	25637906	25895622	1.06	cps
Indium	115-2	8679630	8872995	8902681	8818435	1.37	cps
Iron	56-2	1030284118	1035730091	1047599451	1037871220	0.85	cps
Iron	57-2	26220465	26249583	26288625	26252891	0.13	cps
Iron	54-2	56558751	57376851	56755627	56897076	0.75	cps
Krypton	83-1	350	243	300	298	17.92	cps

Reviewed By:Mohan
On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	CCV008	Instrumnet Name :	P7
Client Sample ID :	CCV008	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 14:45:32	DataFile Name :	085CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	38981190	39263214	39278484	39174296	0.43	cps
Lead	207-1	34039451	34515793	34276991	34277412	0.69	cps
Lead	208-1	154944754	157404010	156980332	156443032	0.84	cps
Lithium	6-1	3141421	3042040	3126540	3103334	1.73	cps
Magnesium	24-2	213038077	215966837	213133957	214046290	0.78	cps
Manganese	55-2	34904242	35233686	34952298	35030075	0.51	cps
Molybdenum	94-1	40817981	41308777	41863877	41330212	1.27	cps
Molybdenum	95-1	59550456	59909067	60685662	60048395	0.97	cps
Molybdenum	96-1	65401492	65924932	66147564	65824663	0.58	cps
Molybdenum	97-1	36911149	37386354	37388729	37228744	0.74	cps
Molybdenum	98-1	95316509	96276022	96585415	96059315	0.69	cps
Neodymium	150-1	843	780	880	834	6.06	cps
Neodymium	150-2	290	223	273	262	13.23	cps
Nickel	60-2	1964678	1932145	1966150	1954324	0.98	cps
Phosphorus	31-2	232218	232374	233020	232537	0.18	cps
Potassium	39-2	120623992	120733592	121169518	120842367	0.24	cps
Rhodium	103-1	23993752	23746035	23635080	23791622	0.77	cps
Rhodium	103-2	13881761	13893991	13982681	13919478	0.40	cps
Scandium	45-1	15530006	15182964	15136969	15283313	1.41	cps
Scandium	45-2	1234175	1246055	1268115	1249448	1.38	cps
Selenium	82-1	174595	176377	176777	175916	0.66	cps
Selenium	77-2	17440	17477	17213	17377	0.82	cps
Selenium	78-2	57869	57531	58107	57836	0.50	cps
Silicon	28-1	31955297	32196366	32488747	32213470	0.83	cps
Silver	107-1	14588639	14807656	14807380	14734559	0.86	cps
Silver	109-1	14033453	14155199	14180924	14123192	0.56	cps
Sodium	23-2	336698222	332298328	330609875	333202142	0.94	cps
Strontium	86-1	3695952	3735239	3688504	3706565	0.68	cps
Strontium	88-1	31987124	32658492	32417404	32354340	1.05	cps
Sulfur	34-1	1268015	1264503	1260549	1264356	0.30	cps
Terbium	159-1	32873229	32481958	31804389	32386525	1.67	cps
Terbium	159-2	21482860	21429589	21326992	21413147	0.37	cps
Thallium	203-1	9924512	9871080	9859212	9884935	0.35	cps
Thallium	205-1	23535482	23457467	23998105	23663685	1.23	cps
Tin	118-1	9331609	9436165	9392414	9386729	0.56	cps
Titanium	47-1	14646553	14753096	14709472	14703040	0.36	cps

Reviewed By:Mohan
On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	CCV008	Instrumnet Name :	P7
Client Sample ID :	CCV008	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 14:45:32	DataFile Name :	085CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	30045539	30481122	30684163	30403608	1.07	cps
Vanadium	51-2	4098882	4092186	4082721	4091263	0.20	cps
Yttrium	89-1	36663997	36426885	36184298	36425060	0.66	cps
Yttrium	89-2	8929795	8976223	8995313	8967111	0.38	cps
Zinc	66-2	8849978	8818960	8919638	8862858	0.58	cps
Zirconium	90-1	20070927	20166244	20352121	20196431	0.71	cps
Zirconium	91-1	4464556	4460860	4508976	4478130	0.60	cps

Reviewed By:Mohan
On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	CCB008	Instrumnet Name :	P7
Client Sample ID :	CCB008	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 14:48:11	DataFile Name :	086CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	1533	1430	1397	1454	4.89	cps
Antimony	121-1	6048	5641	6698	6129	8.70	cps
Arsenic	75-2	43	33	47	41	16.89	cps
Barium	135-1	3247	1980	1137	2121	50.07	cps
Barium	137-1	6385	3394	1843	3874	59.59	cps
Beryllium	9-1	428	267	222	306	35.40	cps
Bismuth	209-1	18283862	18712985	18400222	18465690	1.20	cps
Bismuth	209-2	15373116	15423773	15585628	15460839	0.72	cps
Bromine	81-1	15351	14777	14824	14984	2.13	cps
Bromine	81-2	123	120	150	131	12.54	cps
Cadmium	108-1	80	83	53	72	22.77	cps
Cadmium	106-1	9887	9276	9376	9513	3.44	cps
Cadmium	111-1	7755	6852	6806	7138	7.50	cps
Calcium	43-1	10540	9353	7669	9187	15.71	cps
Calcium	44-1	184418	160059	143198	162558	12.75	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	6585	6418	6745	6583	2.48	cps
Cobalt	59-2	423	423	347	398	11.13	cps
Copper	63-2	3991	3831	3554	3792	5.83	cps
Dysprosium	156-1	73	50	33	52	38.48	cps
Dysprosium	156-2	10	27	17	18	47.19	cps
Erbium	164-1	130	110	127	122	8.77	cps
Erbium	164-2	70	93	83	82	14.24	cps
Gadolinium	160-1	140	130	133	134	3.79	cps
Gadolinium	160-2	1120	1180	1297	1199	7.49	cps
Holmium	165-1	30719435	31267935	31300721	31096030	1.05	cps
Holmium	165-2	22209271	22062601	22163692	22145188	0.34	cps
Indium	115-1	26460535	27108172	27172282	26913663	1.46	cps
Indium	115-2	9459720	9465343	9490817	9471960	0.17	cps
Iron	56-2	61823	56388	54438	57550	6.65	cps
Iron	57-2	2304	2100	2290	2231	5.10	cps
Iron	54-2	6368	5564	5985	5972	6.73	cps
Krypton	83-1	330	277	300	302	8.85	cps

Reviewed By:Mohan
On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	CCB008	Instrumnet Name :	P7
Client Sample ID :	CCB008	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 14:48:11	DataFile Name :	086CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	11692	7589	4754	8012	43.54	cps
Lead	207-1	10374	6658	4091	7041	44.87	cps
Lead	208-1	46659	30574	19095	32109	43.12	cps
Lithium	6-1	3091909	3179428	3144148	3138495	1.40	cps
Magnesium	24-2	6975	5768	5388	6043	13.71	cps
Manganese	55-2	14167	14270	14047	14161	0.79	cps
Molybdenum	94-1	14711	7749	5838	9433	49.51	cps
Molybdenum	95-1	19745	8893	5424	11354	65.80	cps
Molybdenum	96-1	21952	10040	6225	12739	64.40	cps
Molybdenum	97-1	12563	5828	3487	7293	64.61	cps
Molybdenum	98-1	29087	14127	8312	17175	62.40	cps
Neodymium	150-1	13	30	20	21	39.75	cps
Neodymium	150-2	17	30	10	19	53.91	cps
Nickel	60-2	563	663	647	624	8.58	cps
Phosphorus	31-2	427	307	310	348	19.65	cps
Potassium	39-2	77124	76045	75942	76370	0.86	cps
Rhodium	103-1	25428266	25593155	25892840	25638087	0.92	cps
Rhodium	103-2	15572766	15523061	15503990	15533273	0.23	cps
Scandium	45-1	14963042	15148825	15317638	15143168	1.17	cps
Scandium	45-2	1247159	1265003	1265717	1259293	0.83	cps
Selenium	82-1	592	622	482	565	13.11	cps
Selenium	77-2	0	3	0	1	173.21	cps
Selenium	78-2	427	580	407	471	20.13	cps
Silicon	28-1	1303775	1292914	1289361	1295350	0.58	cps
Silver	107-1	4805	2190	1217	2737	67.79	cps
Silver	109-1	4228	1977	1027	2410	68.20	cps
Sodium	23-2	77349	76174	74422	75982	1.94	cps
Strontium	86-1	1763	1257	1083	1368	25.84	cps
Strontium	88-1	11248	7782	5644	8225	34.38	cps
Sulfur	34-1	303521	305336	301437	303431	0.64	cps
Terbium	159-1	31511071	31689023	32043307	31747800	0.85	cps
Terbium	159-2	21959721	22174942	21902826	22012496	0.65	cps
Thallium	203-1	2794	1740	1237	1924	41.30	cps
Thallium	205-1	6745	4247	2760	4584	43.93	cps
Tin	118-1	9833	9460	9016	9437	4.34	cps
Titanium	47-1	3564	2327	1260	2384	48.37	cps

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On:11/21/2024 4:25:15 AM
Inst Id :P7

LB Number :	LB133538	Operator :	Jaswal
Lab Sample ID :	CCB008	Instrumnet Name :	P7
Client Sample ID :	CCB008	Dilution Factor :	1
Date & Time Acquired :	2024-11-20 14:48:11	DataFile Name :	086CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	6725	3887	1967	4193	57.09	cps
Vanadium	51-2	157	107	110	124	22.46	cps
Yttrium	89-1	35542905	36230902	36342568	36038792	1.20	cps
Yttrium	89-2	9129837	8991857	9137401	9086365	0.90	cps
Zinc	66-2	14143	13496	13867	13835	2.35	cps
Zirconium	90-1	10257	8389	7805	8817	14.52	cps
Zirconium	91-1	2260	1857	1703	1940	14.82	cps

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Prep Standard - Chemical Standard Summary

Order ID : P4831

Test : Metals CLP MS

Prepbatch ID : PB165103,

Sequence ID/Qc Batch ID: LB133538,

Standard ID :
MP83014,MP83016,MP83032,MP83033,MP83034,MP83035,MP83036,MP83037,MP83038,MP83039,MP83041,MP83042,MP83043,MP83044,MP83045,MP83047,MP83048,MP83049,MP83050,MP83105,MP83122,

Chemical ID :
M5192,M5288,M5289,M5294,M5304,M5390,M5476,M5497,M5498,M5513,M5515,M5519,M5658,M5698,M5739,M5751,M5769,M5798,M5799,M5800,M5801,M5802,M5806,M5815,M5816,M5817,M5818,M5819,M5820,M5873,M5874,M5961,M5962,M5976,M5978,M5981,M5982,M5983,M5993,M5999,M6021,M6023,M6025,M6028,M6030,M6033,M6055,M6095,M6111,M6115,M6116,W3112,

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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	11/25/2024	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
2902	S8 ICPMS	MP83016	11/02/2024	11/25/2024	Sarabjit Jaswal	None	METALS_PIPETTE_3 (A)	Mohan Bera 11/04/2024

FROM 1.00000ml of M6033 + 2.50000ml of M5288 + 2.50000ml of M5515 + 5.00000ml of M5498 + 5.00000ml of M5769 + 5.00000ml of M5806 + 79.00000ml of MP83014 = 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
3947	S7(SFAM,6020,200.8)	MP83032	11/02/2024	11/25/2024	Sarabjit Jaswal	None	METALS_PIPETTE_3 (A)	Mohan Bera 11/04/2024

FROM 0.40000ml of M5513 + 1.00000ml of M5799 + 1.00000ml of M5818 + 1.00000ml of M5981 + 1.00000ml of M5983 + 1.90000ml of M6033 + 10.00000ml of M6115 + 2.00000ml of M5815 + 2.00000ml of M5817 + 2.50000ml of M5476 + 4.00000ml of M5390 + 4.90000ml of M5515 + 4.90000ml of M5519 + 5.00000ml of M6095 + 50.00000ml of M5304 + 832.80000ml of W3112 + 9.00000ml of M5698 + 9.00000ml of M5819 + 9.00000ml of M5976 + 9.00000ml of M5978 + 9.90000ml of M5498 + 9.90000ml of M5751 + 9.90000ml of M5769 + 9.90000ml of M5806 = Final Quantity: 1000.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3948	S6(SFAM,6020,200.8)	MP83033	11/02/2024	11/25/2024	Sarabjit Jaswal	None	METALS_PIPETTE_3 (A)	Mohan Bera 11/04/2024

FROM 0.50000ml of M6095 + 1.00000ml of M6115 + 48.50000ml of W3112 + 50.00000ml of MP83032 = 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
3954	S4(SFAM,6020,200.8)	MP83034	11/02/2024	11/25/2024	Sarabjit Jaswal	None	METALS_PIPETTE_3 (A)	Mohan Bera 11/04/2024

FROM 0.50000ml of M6095 + 1.00000ml of M6115 + 86.00000ml of W3112 + 12.50000ml of MP83032 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3949	S5(SFAM,6020,200.8)	MP83035	11/02/2024	11/25/2024	Sarabjit Jaswal	None	METALS_PIPETTE_3 (A)	Mohan Bera 11/04/2024

FROM 0.50000ml of M6095 + 1.00000ml of M6115 + 73.50000ml of W3112 + 25.00000ml of MP83032 = 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
3951	S3(SFAM, 6020,200.8)	MP83036	11/02/2024	11/25/2024	Sarabjit Jaswal	None	METALS_PIPETTE_3 (A)	Mohan Bera 11/04/2024

FROM 0.50000ml of M6095 + 1.00000ml of M6115 + 88.50000ml of W3112 + 10.00000ml of MP83033 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3955	S2CONC(SFAM,6020,200.8)	MP83037	11/02/2024	11/25/2024	Sarabjit Jaswal	None	METALS_PIPETTE_3 (A)	Mohan Bera 11/04/2024

FROM 0.05000ml of M5698 + 0.05000ml of M5798 + 0.05000ml of M5800 + 0.05000ml of M5801 + 0.05000ml of M5961 + 0.05000ml of M5981 + 0.05000ml of M5982 + 0.05000ml of M5983 + 0.05000ml of M6023 + 0.05000ml of M6025 + 0.05000ml of M6028 + 0.05000ml of M6030 + 0.10000ml of M5658 + 0.10000ml of M5751 + 0.10000ml of M5802 + 0.10000ml of M6033 + 0.25000ml of M5515 + 0.25000ml of M5799 + 0.25000ml of M5819 + 0.25000ml of M5962 + 0.25000ml of M5976 + 0.25000ml of M5978 + 0.25000ml of M6021 + 0.50000ml of M5390 + 0.50000ml of M5818 + 1.25000ml of M5815 + 1.25000ml of M5817 + 2.50000ml of M5498 + 2.50000ml of M5519 + 2.50000ml of M5769 + 2.50000ml of M5806 + 2.50000ml of M6095 + 226.25000ml of W3112 + 5.00000ml of M6115 = 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
3956	S2(SFAM,6020,200.8)	MP83038	11/02/2024	11/25/2024	Sarabjit Jaswal	None	METALS_PIPETTE_3 (A)	Mohan Bera 11/04/2024

FROM 0.50000ml of M6095 + 1.00000ml of M6115 + 98.00000ml of W3112 + 0.50000ml of MP83037 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3957	S1(SFAM,6020,200.8)	MP83039	11/02/2024	11/25/2024	Sarabjit Jaswal	None	METALS_PIPETTE_3 (A)	Mohan Bera 11/04/2024

FROM 0.50000ml of M6095 + 1.00000ml of M6115 + 88.50000ml of W3112 + 10.00000ml of MP83038 = 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
3958	ICV(SFAM)	MP83041	11/02/2024	11/25/2024	Sarabjit Jaswal	None	METALS_PIPETTE_3 (A)	Mohan Bera 11/04/2024

FROM 2.00000ml of M5294 + 98.00000ml of MP83014 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3961	CCV	MP83042	11/02/2024	11/25/2024	Sarabjit Jaswal	None	METALS_PIPETTE_3 (A)	Mohan Bera 11/04/2024

FROM 0.20000ml of M5513 + 0.50000ml of M5799 + 0.50000ml of M5818 + 0.50000ml of M5981 + 0.50000ml of M5983 + 1.00000ml of M5815 + 1.00000ml of M5817 + 1.25000ml of M5476 + 10.00000ml of M6115 + 12.45000ml of M5515 + 12.45000ml of M5519 + 2.00000ml of M5390 + 24.95000ml of M5498 + 24.95000ml of M5769 + 24.95000ml of M5806 + 25.00000ml of M5304 + 4.50000ml of M5698 + 4.50000ml of M5751 + 4.50000ml of M5819 + 4.95000ml of M6033 + 5.00000ml of M5976 + 5.00000ml of M5978 + 5.00000ml of M6095 + 823.45000ml of W3112 = Final Quantity: 1000.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1142	ICSA ICPMS	MP83043	11/02/2024	11/25/2024	Sarabjit Jaswal	None	METALS_PIPETTE_3 (A)	Mohan Bera 11/04/2024

FROM 10.00000ml of M5873 + 90.00000ml of MP83014 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1143	ICSAB ICPMS	MP83044	11/02/2024	11/25/2024	Sarabjit Jaswal	None	METALS_PIPETTE_3 (A)	Mohan Bera 11/04/2024

FROM 10.00000ml of M5873 + 10.00000ml of M5874 + 80.00000ml of MP83014 = 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
3963	CONC.LCSW SPIKE	MP83045	11/02/2024	11/25/2024	Sarabjit Jaswal	None	METALS_PIPETTE_3 (A)	Mohan Bera 11/04/2024

FROM 0.05000ml of M5698 + 0.05000ml of M5798 + 0.05000ml of M5800 + 0.05000ml of M5801 + 0.05000ml of M5961 + 0.05000ml of M5981 + 0.05000ml of M5982 + 0.05000ml of M5983 + 0.05000ml of M6023 + 0.05000ml of M6025 + 0.05000ml of M6028 + 0.05000ml of M6030 + 0.10000ml of M5289 + 0.10000ml of M5658 + 0.10000ml of M5751 + 0.10000ml of M5802 + 0.25000ml of M5192 + 0.25000ml of M5799 + 0.25000ml of M5819 + 0.25000ml of M5962 + 0.25000ml of M5978 + 0.25000ml of M6021 + 0.50000ml of M5390 + 0.50000ml of M5818 + 1.00000ml of M5515 + 1.00000ml of M5816 + 1.25000ml of M5820 + 2.50000ml of M5497 + 2.50000ml of M5519 + 2.50000ml of M5769 + 2.50000ml of M5806 + 2.50000ml of M6095 + 225.75000ml of W3112 + 5.00000ml of M6115 = Final Quantity: 250.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
870	ICPMS SPIKE SOL.B	MP83047	11/02/2024	11/25/2024	Sarabjit Jaswal	None	METALS_PIPETTE_3 (A)	Mohan Bera 11/04/2024

FROM 0.45000ml of M5962 + 5.00000ml of M5993 + 5.00000ml of M5999 + 39.55000ml of MP83014 = 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
3962	MG 10PPM FOR TUNE	MP83048	11/02/2024	11/25/2024	Sarabjit Jaswal	None	METALS_PIPETTE_3 (A)	Mohan Bera 11/04/2024

FROM 0.01000ml of M5769 + 9.99000ml of MP83014 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3894	TUNE 200PPB	MP83049	11/02/2024	11/25/2024	Sarabjit Jaswal	None	METALS_PIPETTE_3 (A)	Mohan Bera 11/04/2024

FROM 2.00000ml of M6055 + 2.00000ml of MP83048 + 98.00000ml of MP83014 = 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
3903	ISS 3PPM	MP83050	11/02/2024	11/25/2024	Sarabjit Jaswal	None	METALS_PIPETTE_3 (A)	Mohan Bera 11/04/2024

FROM 5.00000ml of M6115 + 75.00000ml of M5739 + 170.00000ml of MP83014 = Final Quantity: 250.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
170	1:1HCL	MP83105	11/07/2024	12/06/2024	Janvi Patel	None	None	Sarabjit Jaswal 11/07/2024

FROM 1000.00000ml of M6111 + 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
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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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57042 / Mo, 1000 PPM, 125 ml	051722	05/17/2025	07/01/2022 / bin	06/17/2022 / jaswal	M5192

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58119 / K, 10000 PPM, 500 ml	071122	07/11/2025	09/01/2022 / jaswal	07/21/2022 / jaswal	M5288

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	01/01/2025	12/13/2023 / bin	02/20/2020 / bin	M5294

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	6020CAL-1 / Calibration Standard Method 6020	S2-MEB711244	10/20/2026	08/07/2024 / jaswal	04/01/2022 / jaswal	M5304

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

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57138 / Sr, 10000 PPM, 125 ml	082922	08/09/2025	07/29/2024 / jaswal	03/16/2023 / jaswal	M5476

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 #
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.	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 #
Inorganic Ventures	6020ISS / 6020ISS, 10 ug/ml, Bi, Ho, In, 6Li, Rh, Sc, TB, Y	T2-MEB709511	09/03/2026	08/07/2024 / jaswal	04/11/2022 / jaswal	M5739

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	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

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	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

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

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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

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 #
EPA	PART A / ICSA (ICPMS) STOCK SOLN	CP-MS ICSA-0803	04/30/2025	04/17/2024 / jaswal	07/14/2022 / jaswal	M5873

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Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
EPA	PART B / ICSB (ICPMS) STOCK SOLUTION	CP-MS ICSB-0803	04/30/2025	04/17/2024 / jaswal	07/14/2022 / jaswal	M5874

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	07/02/2024 / Jaswal	06/11/2024 / Jaswal	M5961

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 #
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.	57092 / U, 1000 PPM, 125 ml	060724	06/07/2027	07/29/2024 / Jaswal	06/11/2024 / Jaswal	M5981

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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 #
Absolute Standards, Inc.	57040 / Zr, 1000 PPM, 125 ml	071423	07/14/2026	07/29/2024 / Jaswal	06/11/2024 / Jaswal	M5983

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	CLPP-SPK-4 / SOIL/WATER SPIKE SOLN 4, 125mL	V2-MEB742036	03/12/2029	10/04/2024 / Jaswal	02/22/2024 / Jaswal	M5993

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

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57082 / Pb, 1000 PPM, 125 ml	061224	06/12/2027	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	01/25/2019 / Jaswal	M6028

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57047 / Ag, 1000 PPM, 125 ml	122823	12/28/2026	08/05/2024 / kareem	08/05/2024 / Jaswal	M6030

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	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 #
Inorganic Ventures	IV-STOCK-12 / ICP-MS TUNING SOLUTION, 125mL	U2-MEB734294	06/21/2028	08/21/2024 / Jaswal	08/19/2024 / Jaswal	M6055

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

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Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9530-33 / Hydrochloric Acid, Instra-Analyzed (cs/6x2.5L)	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	DIW / DI Water	Daily Lab-Certified	07/03/2029	07/03/2024 / Iwona	07/03/2024 / Iwona	W3112

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300 Technology Drive
Christiansburg, VA 24073 USA
inorganicventures.com

P: 800-669-6799/540-585-3030
F: 540-585-3012
info@inorganicventures.com

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-4
Lot Number:	V2-MEB742036
Matrix:	3% (v/v) HNO3
Value / Analyte(s):	100 µg/mL ea: Antimony,
	50 µg/mL ea: Cadmium, Thallium,
	40 µg/mL ea: Arsenic,
	20 µg/mL ea: Lead,
	10 µg/mL ea: Selenium

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	50.00 ± 0.22 µg/mL	Lead, Pb	20.00 ± 0.09 µg/mL
Selenium, Se	10.00 ± 0.04 µg/mL	Thallium, Tl	50.00 ± 0.22 µg/mL

Density: 1.016 g/mL (measured at 20 ± 4 °C)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
As	ICP Assay	3103a	100818
Cd	ICP Assay	3108	130116
Cd	EDTA	928	928
Cd	Calculated		See Sec. 4.2
Pb	ICP Assay	3128	101026
Pb	EDTA	928	928
Pb	Calculated		See Sec. 4.2
Sb	ICP Assay	3102a	140911
Se	ICP Assay	3149	100901
Se	Calculated		See Sec. 4.2
Tl	ICP Assay	3158	151215
Tl	Calculated		See Sec. 4.2

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\ (u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\ (u_{char\ i})^2)]^{1/2}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\ (u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\ (u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

N/A

6.0 INTENDED USE

6.1 This standard is intended for the calibration of analytical instruments and validation of analytical methods as appropriate. This CRM may be used in connection with EPA Methods 6010, 6020 (all versions), Standard Methods 3120 B and USP <232> / ICH Q3D.

6.2 For products attaining traceability through Inorganic Ventures' Primary Certified Reference Materials (PCRM™) see the Limited License to Use PCRM™ in the Inorganic Ventures Terms and Conditions of Sale, https://www.inorganicventures.com/terms-and-conditions-sale. The Terms and Conditions contain information on the use of materials traceable to PCRM™ certified reference materials. This Limited License agreement is especially pertinent for laboratories accredited under ISO:17034.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

March 12, 2024

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- March 12, 2029

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Joseph Burns
Custom VS Manager



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director



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M6028

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R 8/15/24

609

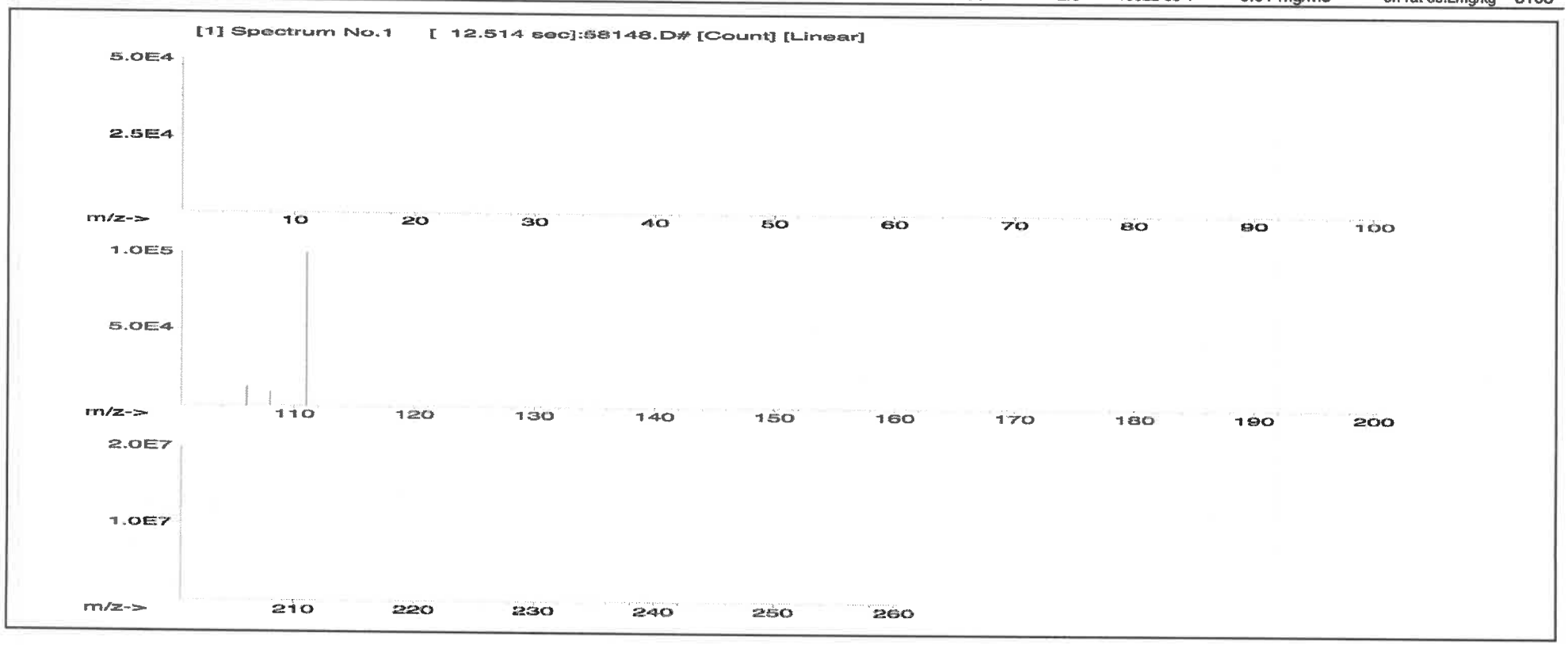
CERTIFIED WEIGHT REPORT:

Part Number:	**57048**		**Lot #**		
Lot Number:	**070124**	**Solvent:**	24002546	Nitric Acid	
Description:	**Cadmium (Cd)**	2%	40.0 (mL)	Nitric Acid	
Expiration Date:	070127				
Recommended Storage:	Ambient (20 °C)				
Nominal Concentration (µg/mL):	**1000**				
NIST Test Number:	6UTB	5E-05	Balance Uncertainty		
Weight shown below was diluted to (mL):	2000.07	0.100	Flask Uncertainty		

Aleah O'Brady

Formulated By:	Aleah O'Brady	070124
Reviewed By:	Pedro L. Rentas	070124

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Cadmium nitrate tetrahydrate (Cd)	IN024	CDM092021A1	1000	99.999	0.10	36.5	5.4797	5.4804	**1000.1**	**2.0**	10022-68-1	0.01 mg/m3	orl-rat 60.2mg/kg	3108



610

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).

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R: 8/5/24

611

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

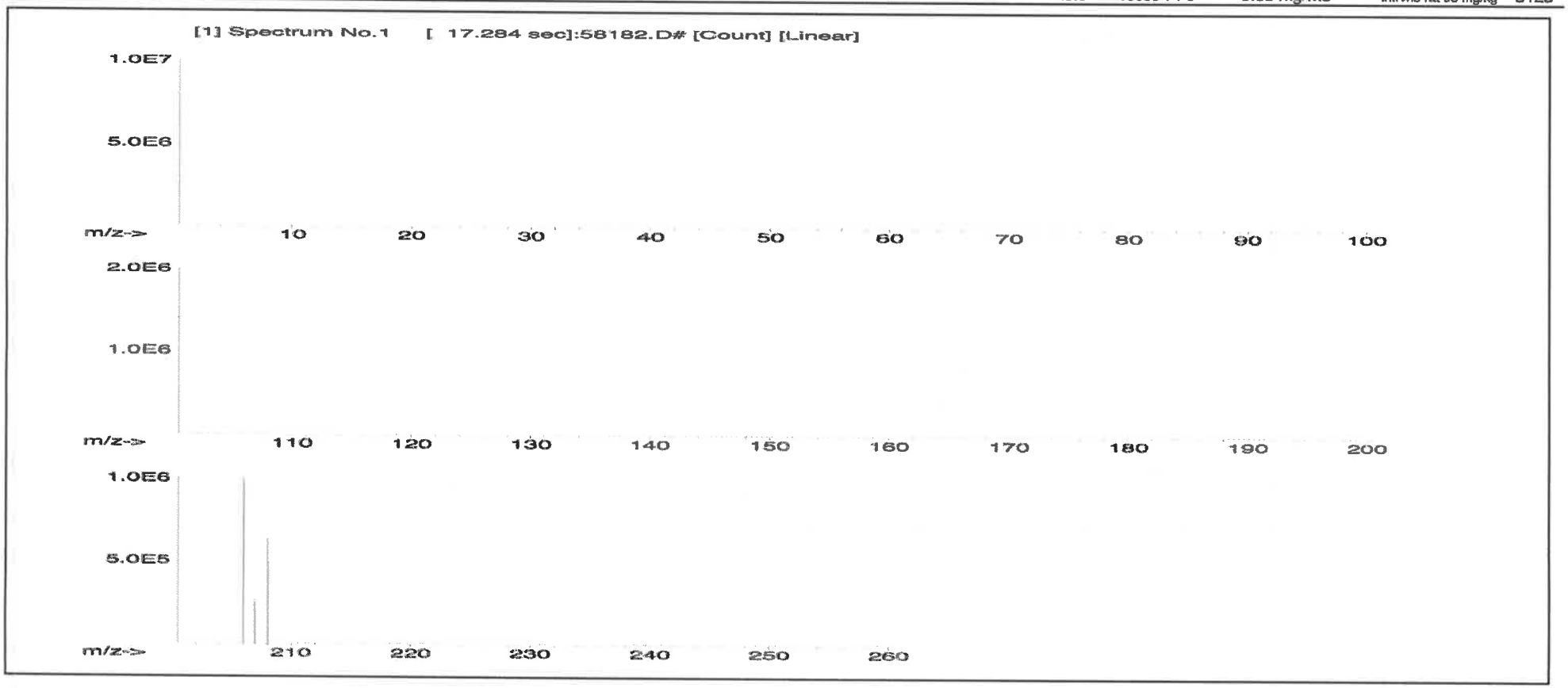
Weight shown below was diluted to (mL): 2000.02 0.058 Flask Uncertainty

		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



612

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).

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M5192 R: 06/17/22

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613

CERTIFIED WEIGHT REPORT:

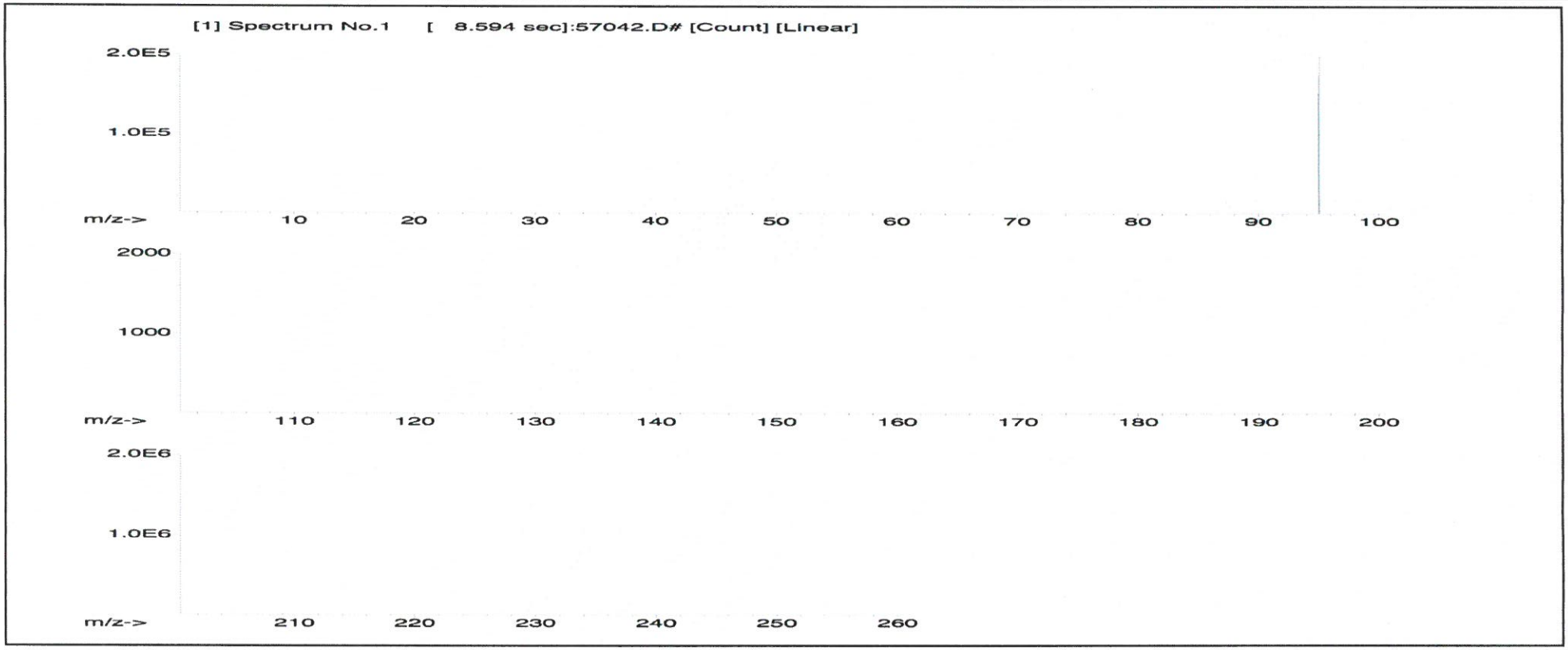
Part Number: 57042
Lot Number: 051722
Description: Molybdenum (Mo)
Expiration Date: 051725
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 1000
NIST Test Number: 6UTB
Volume shown below was diluted to (mL): 3000.41

Lot #	Solvent:		
MKBQ8597V	Ammonium hydroxide		
0.5%	15.0 (mL)	Ammonium hydroxide	

5E-05 Balance Uncertainty
0.058 Flask Uncertainty

Formulated By: Lawrence Barry 051722
Reviewed By: Pedro L. Rentas 051722

	Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1.	Ammonium molybdate (Mo)	58142	022222	0.1000	300.0	0.084	1000	10001.0	**1000.0**	**2.1**	13106-76-8	5 mg(Mo)/m3	orl-rat 333 mg/kg	3134



614

Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	T	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:



* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated 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).

V15200 R: 04/24/22 (BP)

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615

CERTIFIED WEIGHT REPORT:

Part Number: 58119
Lot Number: 071122
Description: Potassium (K)

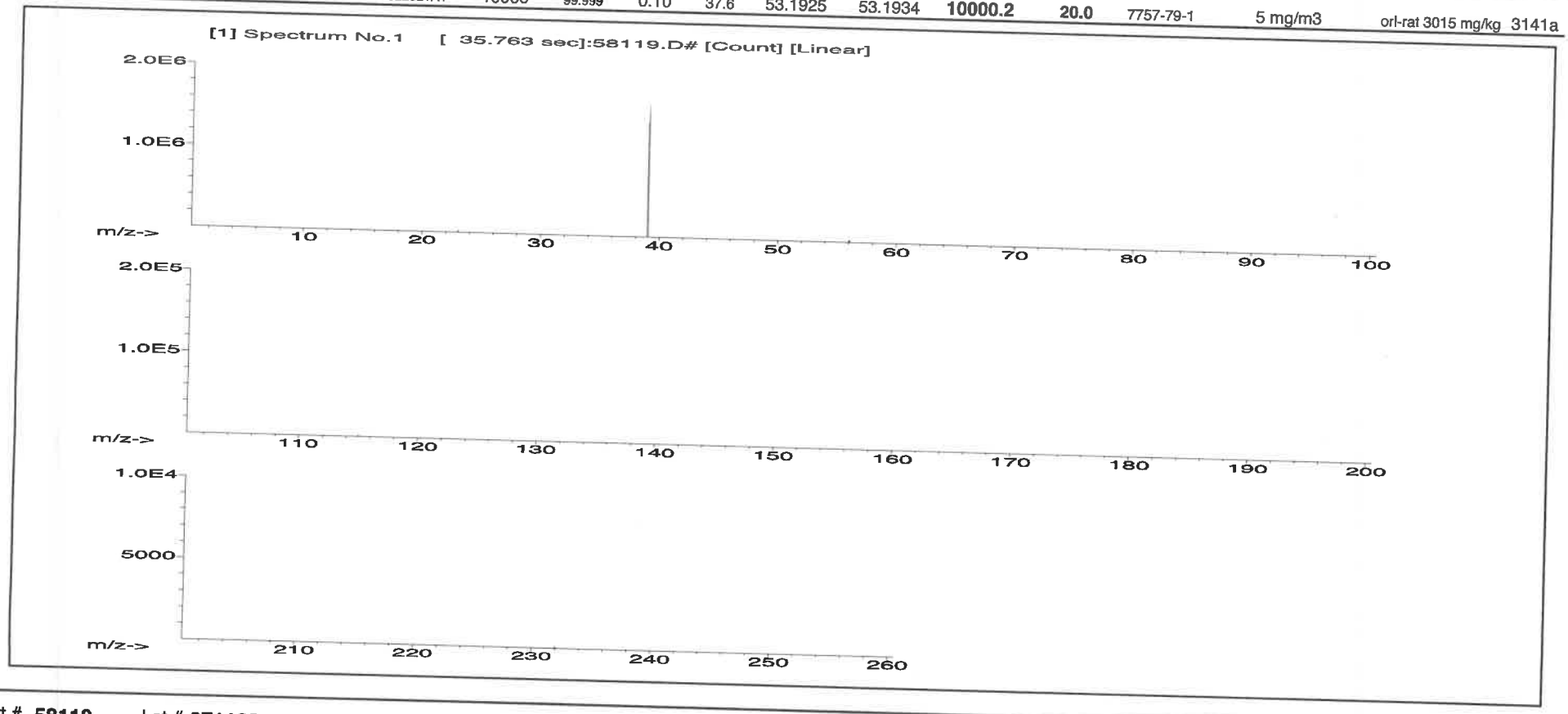
Expiration Date: 071125
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 2000.02

	Lot #		
Solvent:	20510011	Nitric Acid	
2%	40.0 (mL)	Nitric Acid	
5E-05	Balance Uncertainty		
0.058	Flask Uncertainty		

Formulated By: Lawrence Barry 071122

Reviewed By: Pedro L. Rentas 071122

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	53.1925	53.1934	**10000.2**	**20.0**	7757-79-1	5 mg/m3	orl-rat 3015 mg/kg	3141a



Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	T	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

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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M5289 R: 07/12/22 BH

Certified Reference Material CRM

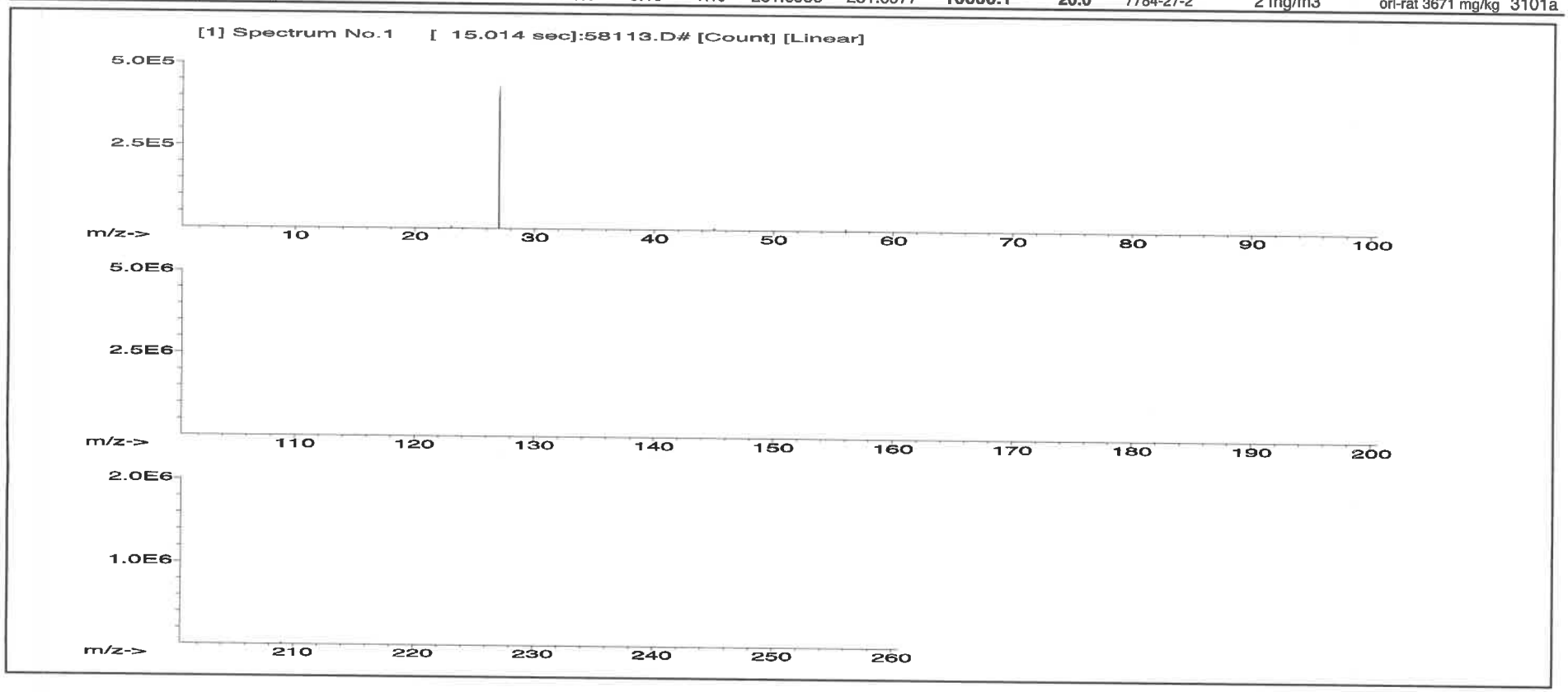
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CERTIFIED WEIGHT REPORT:

Part Number:	**58113**		**Lot #**		
Lot Number:	**070622**	**Solvent:**	20370011	Nitric Acid	
Description:	**Aluminum (Al)**				
		2%	40.0 (mL)	Nitric Acid	
Expiration Date:	070625				
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	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



618

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

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:	6020CAL-1
Lot Number:	S2-MEB711244
Matrix:	5% (v/v) HNO3 tr. HF
Value / Analyte(s):	20 µg/mL ea:

Silver, Aluminum,
Arsenic, Barium,
Beryllium, Calcium,
Cadmium, Cobalt,
Chromium, Copper,
Iron, Potassium,
Magnesium, Manganese,
Sodium, Nickel,
Lead, Antimony,
Selenium, Thallium,
Vanadium, Zinc

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
Aluminum, Al	**20.01 ± 0.08 µg/mL**	**Antimony, Sb**	**20.01 ± 0.12 µg/mL**
Arsenic, As	**20.01 ± 0.18 µg/mL**	**Barium, Ba**	**20.01 ± 0.11 µg/mL**
Beryllium, Be	**20.01 ± 0.14 µg/mL**	**Cadmium, Cd**	**20.01 ± 0.11 µg/mL**
Calcium, Ca	**20.01 ± 0.10 µg/mL**	**Chromium, Cr**	**20.01 ± 0.16 µg/mL**
Cobalt, Co	**20.01 ± 0.11 µg/mL**	**Copper, Cu**	**20.01 ± 0.10 µg/mL**
Iron, Fe	**20.01 ± 0.09 µg/mL**	**Lead, Pb**	**20.01 ± 0.11 µg/mL**
Magnesium, Mg	**19.99 ± 0.10 µg/mL**	**Manganese, Mn**	**20.01 ± 0.10 µg/mL**
Nickel, Ni	**20.01 ± 0.11 µg/mL**	**Potassium, K**	**20.01 ± 0.10 µg/mL**
Selenium, Se	**20.02 ± 0.14 µg/mL**	**Silver, Ag**	**20.02 ± 0.09 µg/mL**
Sodium, Na	**20.01 ± 0.10 µg/mL**	**Thallium, Tl**	**20.01 ± 0.13 µg/mL**
Vanadium, V	**20.01 ± 0.11 µg/mL**	**Zinc, Zn**	**20.01 ± 0.11 µg/mL**

Density: 1.026 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
As	ICP Assay	3103a	100818
Ba	ICP Assay	3104a	140909
Ba	Gravimetric		See Sec. 4.2
Be	ICP Assay	3105a	090514
Ca	ICP Assay	3109a	130213
Ca	EDTA	928	928
Cd	ICP Assay	3108	130116
Cd	EDTA	928	928
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
Fe	Calculated		See Sec. 4.2
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
Pb	ICP Assay	3128	101026
Pb	EDTA	928	928
Se	ICP Assay	3149	100901
Se	Calculated		See Sec. 4.2
Tl	ICP Assay	3158	151215
Tl	Calculated		See Sec. 4.2
V	ICP Assay	3165	160906
V	EDTA	928	928
Zn	ICP Assay	3168a	120629
Zn	EDTA	928	928

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

N/A

6.0 INTENDED USE

- 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.

Low Silver Note: This solution contains “LOW” levels of Silver. Please store this entire bottle inside a sealed glass jar.

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

October 20, 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

- **October 20, 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



Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

R:09/08/22 (BH)

Certified Reference Material CRM

M5387 . M5389 . M5390 . M5391 . M5392

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

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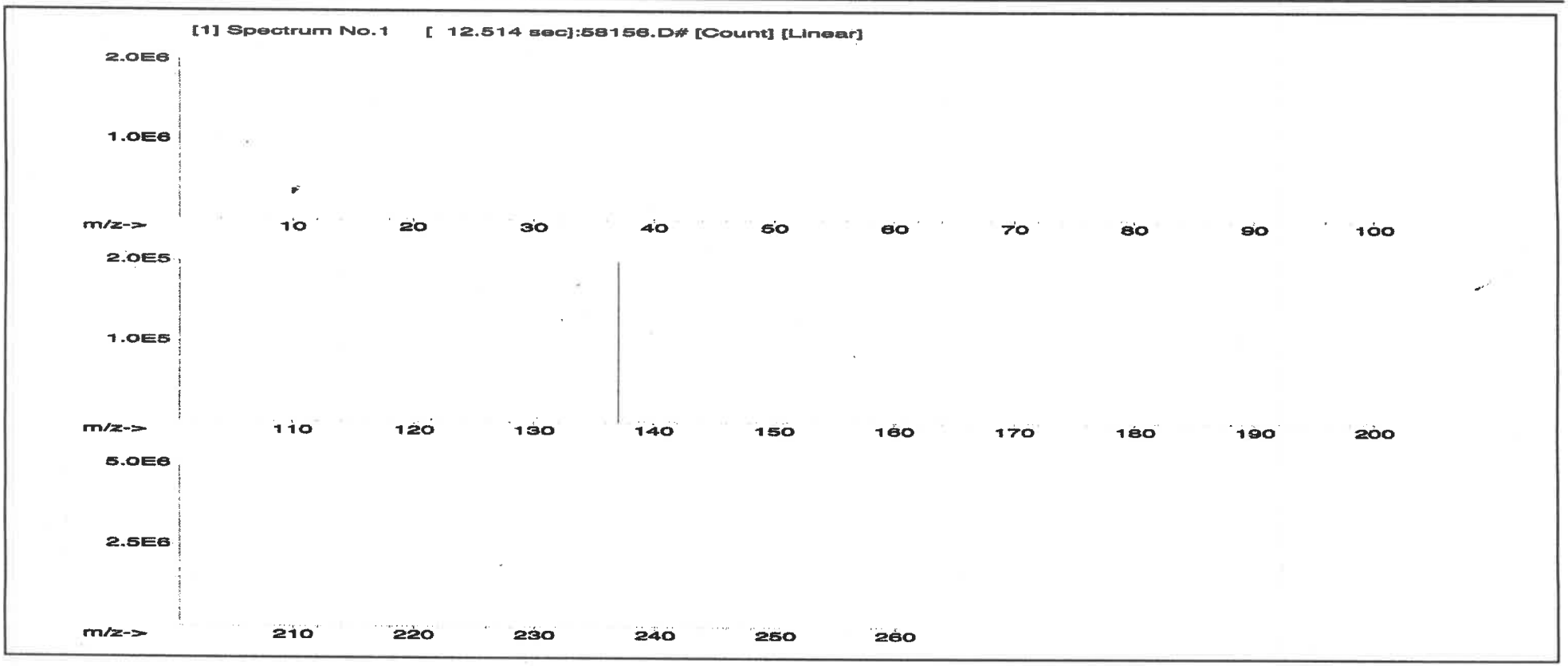
CERTIFIED WEIGHT REPORT:

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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Certified Reference Material CRM

M5497 - M5498 R: 03/17/23 BH

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT:

Part Number: 58120
Lot Number: 031523
Description: Calcium (Ca)

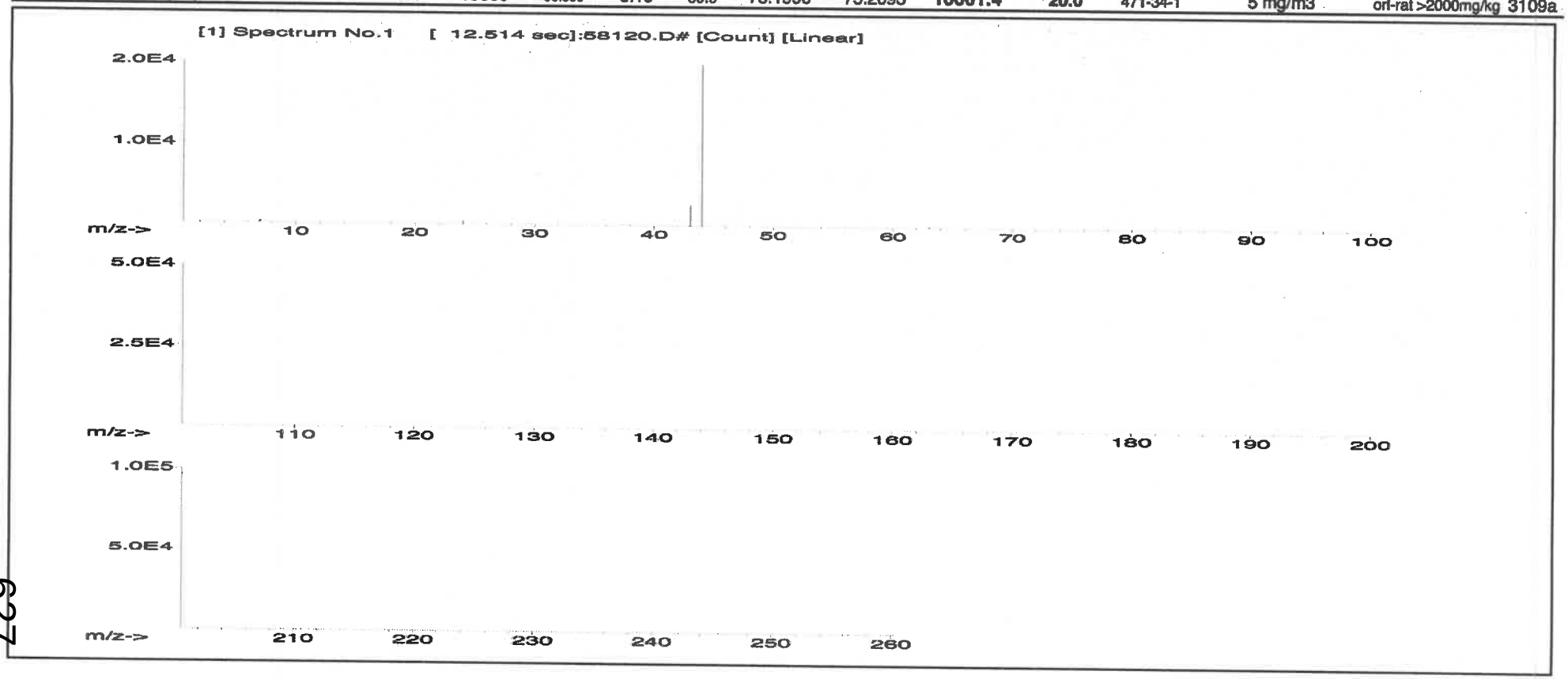
Expiration Date: 031526
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 3000.41

	Lot #		
Solvent:	21110221	Nitric Acid	
2%	60.0 (mL)	Nitric Acid	
	5E-05	Balance Uncertainty	
	0.058	Flask 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



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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	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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* 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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IN5497 - IN5498 R: 03/17/23 BH

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CERTIFIED WEIGHT REPORT:

Part Number: 58120
Lot Number: 031523
Description: Calcium (Ca)

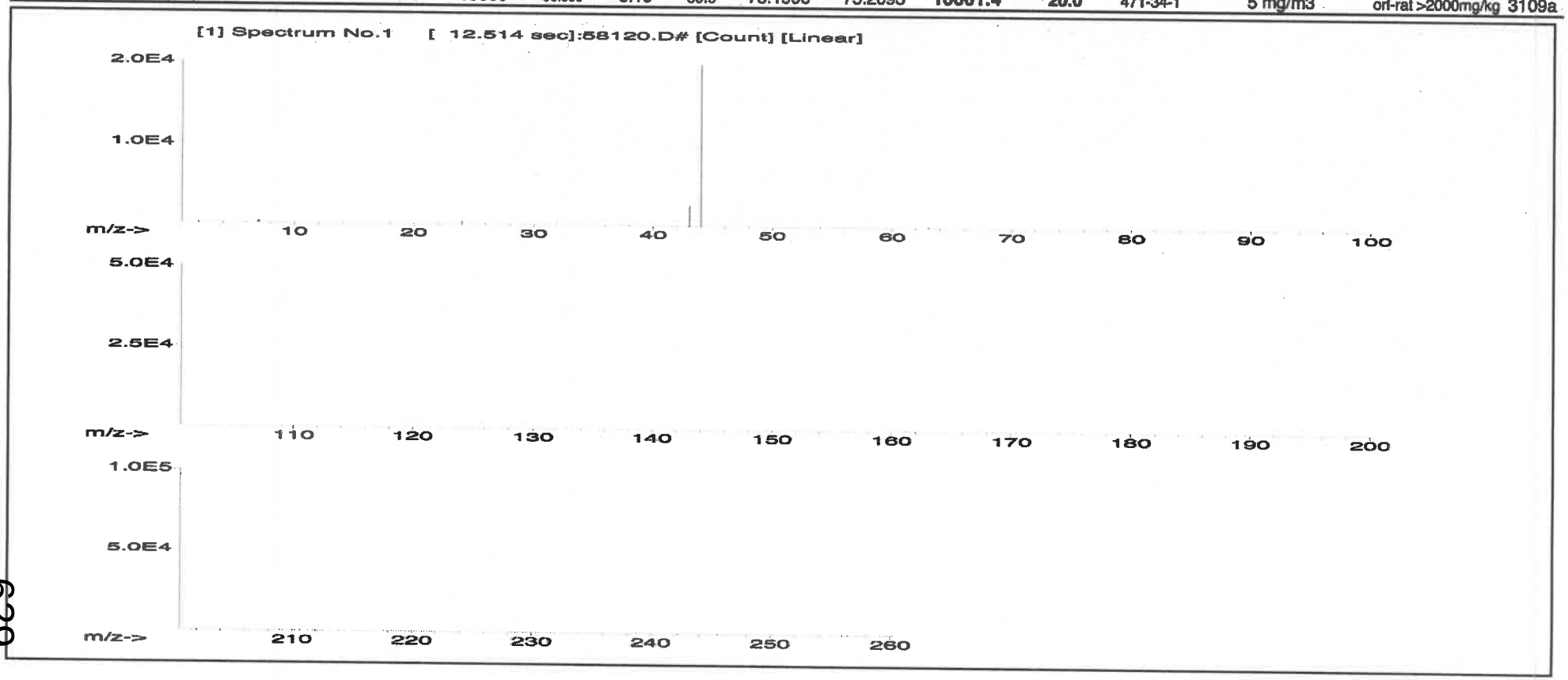
Expiration Date: 031526
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 3000.41

	Lot #		
Solvent:	21110221	Nitric Acid	
2%	60.0 (mL)	Nitric Acid	
	5E-05	Balance Uncertainty	
	0.058	Flask 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



629

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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* 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).

630

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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

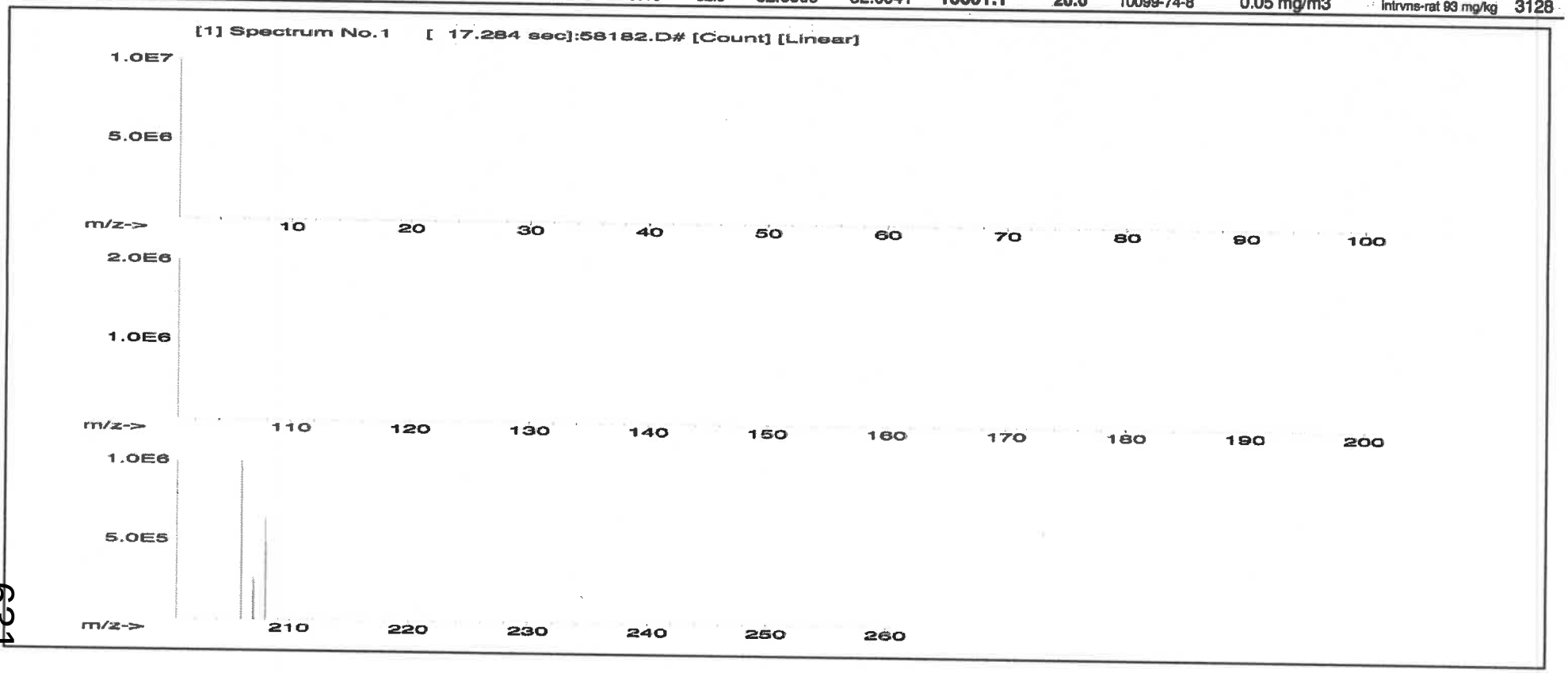
	Lot #		
Solvent:	20510011	Nitric Acid	
2%	40.0 (mL)	Nitric Acid	

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



631

Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	T	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

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* 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).

632

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M5514 - M5515 R: 03/17/22

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CERTIFIED WEIGHT REPORT:

Part Number: 58126
Lot Number: 092122
Description: Iron (Fe)

Expiration Date: 092125
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 5000.1 ± 0.12 Flask Uncertainty

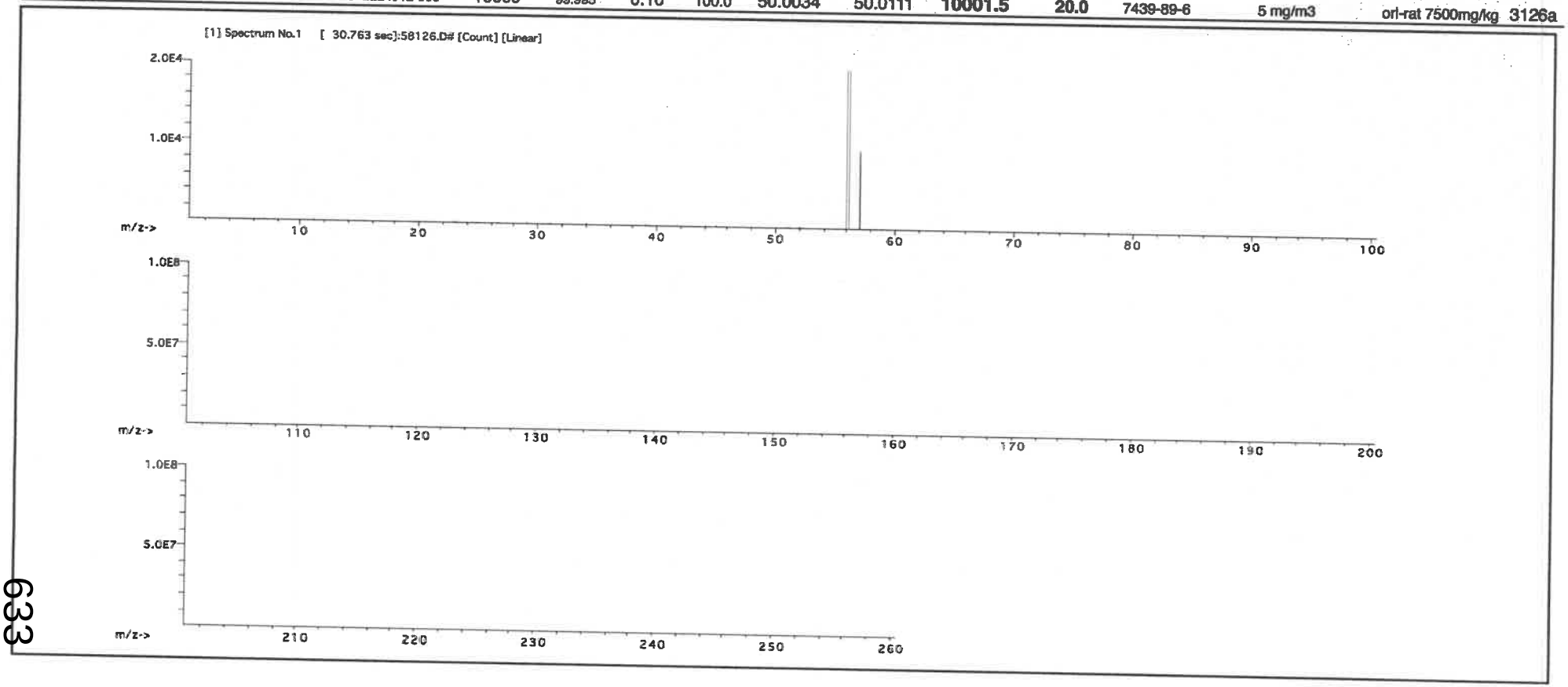
	Lot #		
Solvent:	20510011	Nitric Acid	
7.0%	350.0 (mL)	Nitric Acid	

5E-05 Balance 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



633

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:

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M5519. M5520 (BH) R:03/17/23

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635

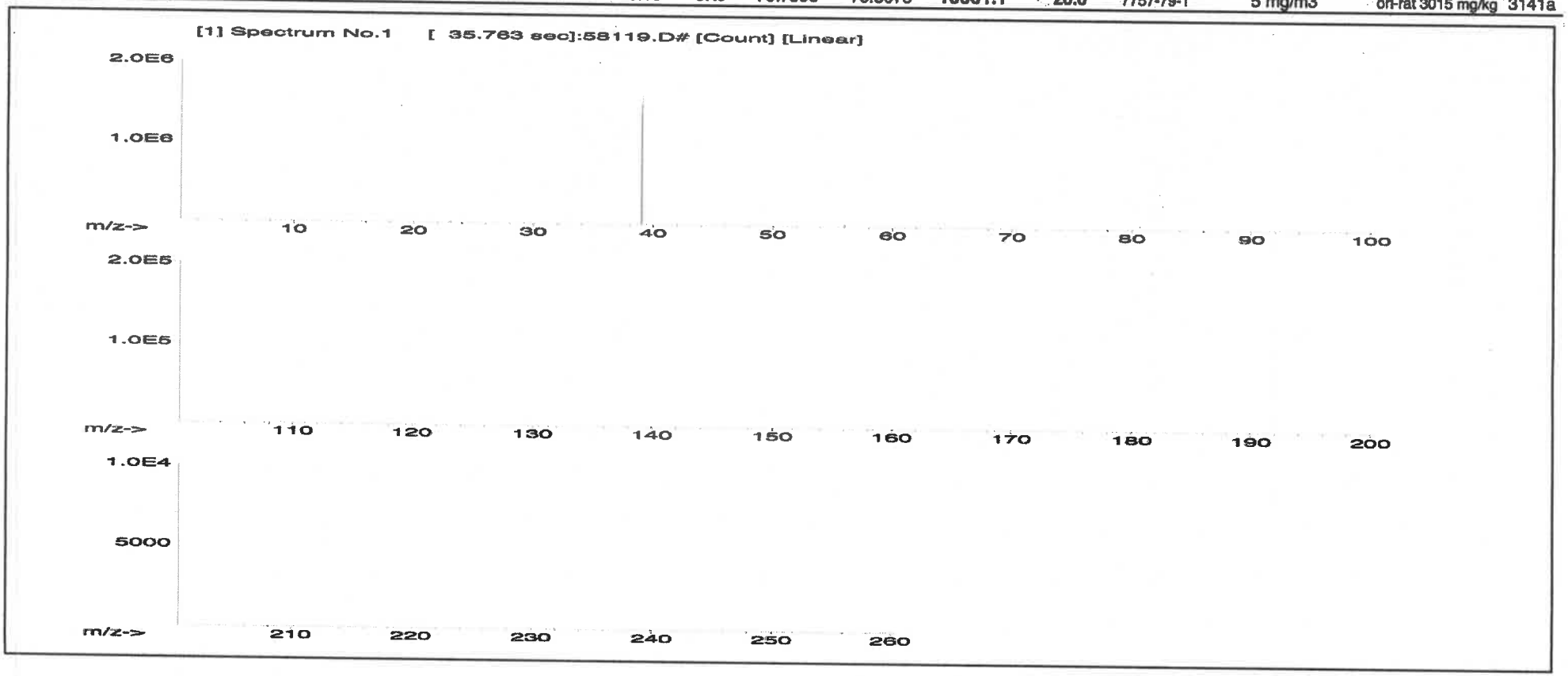
CERTIFIED WEIGHT REPORT:

Part Number:	**58119**		**Lot #**		
Lot Number:	**120822**	**Solvent:**	20510011	Nitric Acid	
Description:	**Potassium (K)**				
		2%	60.0 (mL)	Nitric Acid	
Expiration Date:	120825				
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		

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



636

Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<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:

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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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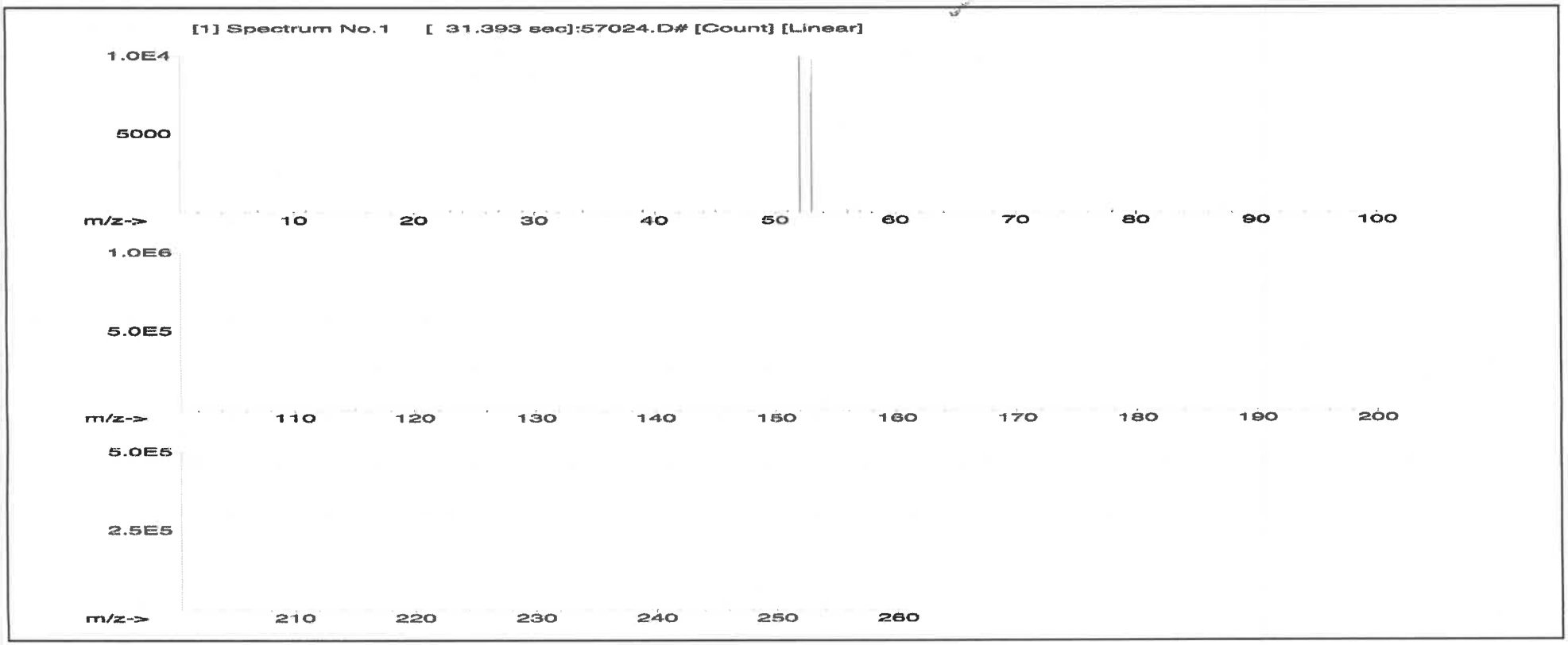
637

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



638

Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	T	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

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* 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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M5648 R: 10/27/23

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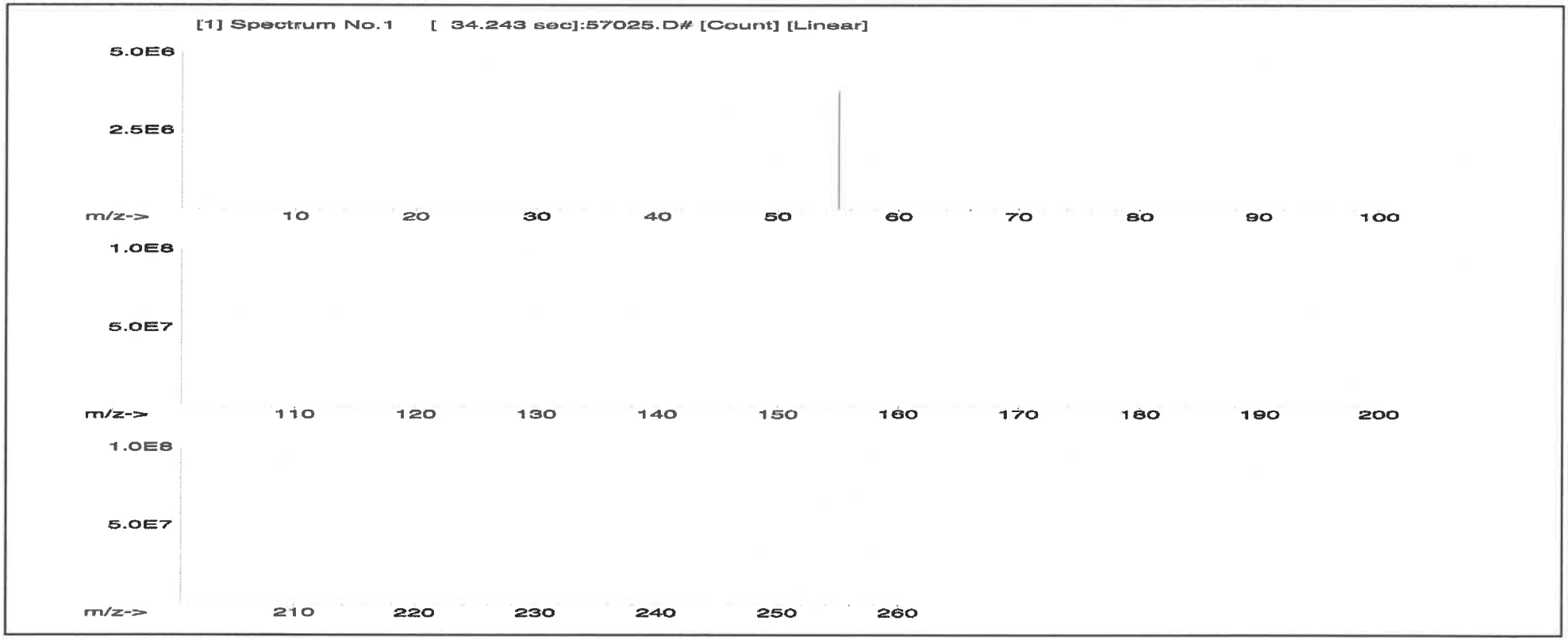
639

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



640

Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	T	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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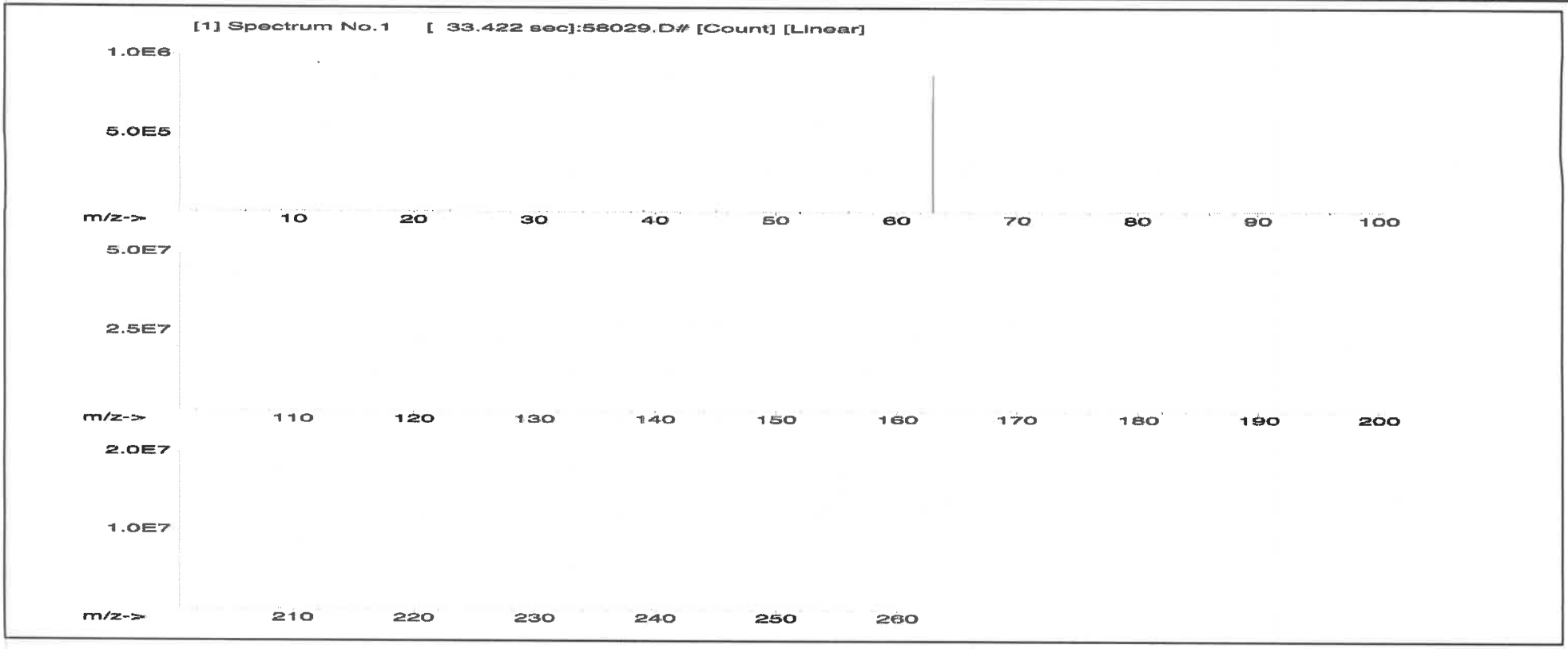
641

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



642

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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* 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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M5768 M5769 (BP) R:1/3/24

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643

CERTIFIED WEIGHT REPORT:

Part Number: 58112
Lot Number: 091823
Description: Magnesium (Mg)

Expiration Date: 091826
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB

Weight shown below was diluted to (mL): 2000.02 0.058 Flask Uncertainty

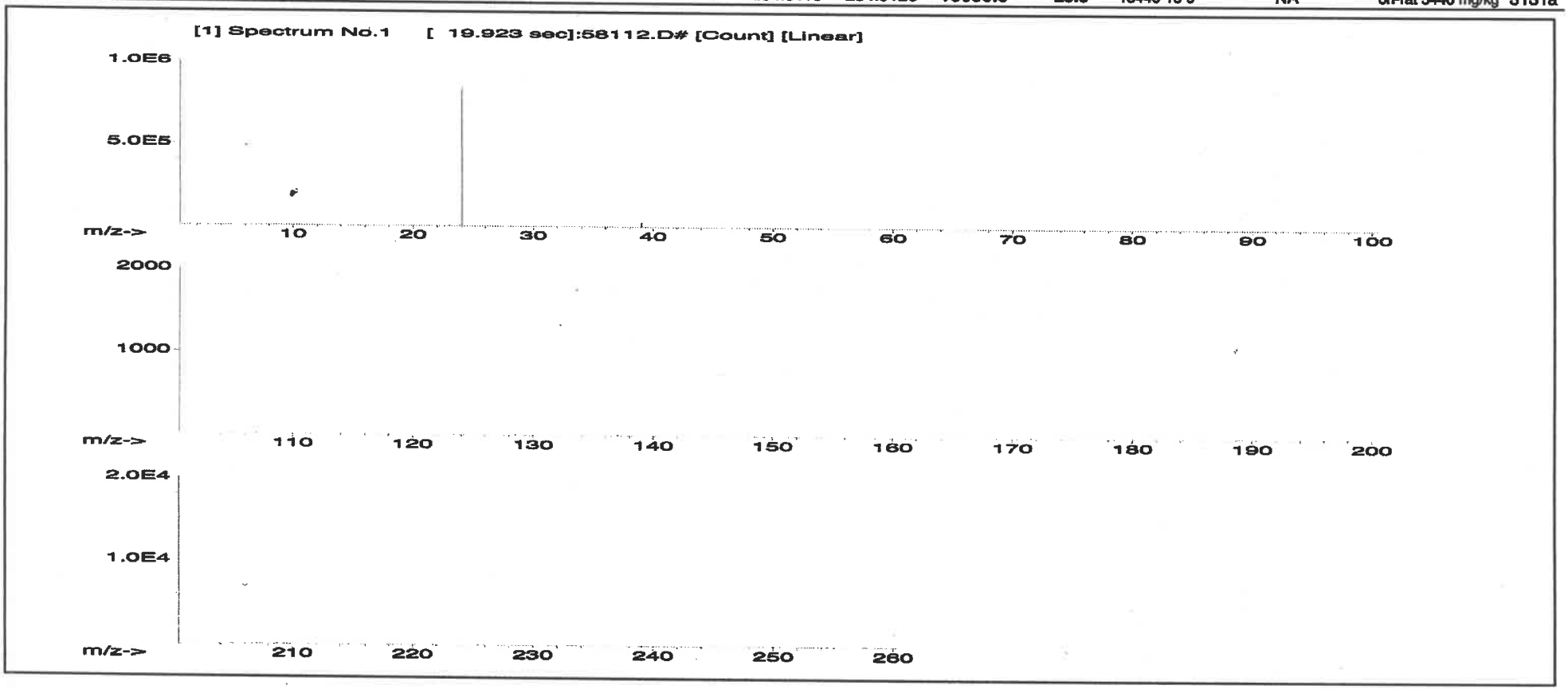
		Lot #	
Solvent:	24002546	Nitric Acid	
2%	40.0 (mL)	Nitric Acid	

5E-05 Balance Uncertainty

M5768, M5769 (BP) R: 1/3/24

Formulated By:	Lawrence Barry	091823
Reviewed By:	Pedro L. Rentas	091823

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Magnesium nitrate hexahydrate (Mg)	IN030	MGD052023A1	10000	99.999	0.10	8.51	234.9118	234.9126	**10000.0**	**20.0**	13446-18-9	NA	orl-rat 5440 mg/kg	3131a



644

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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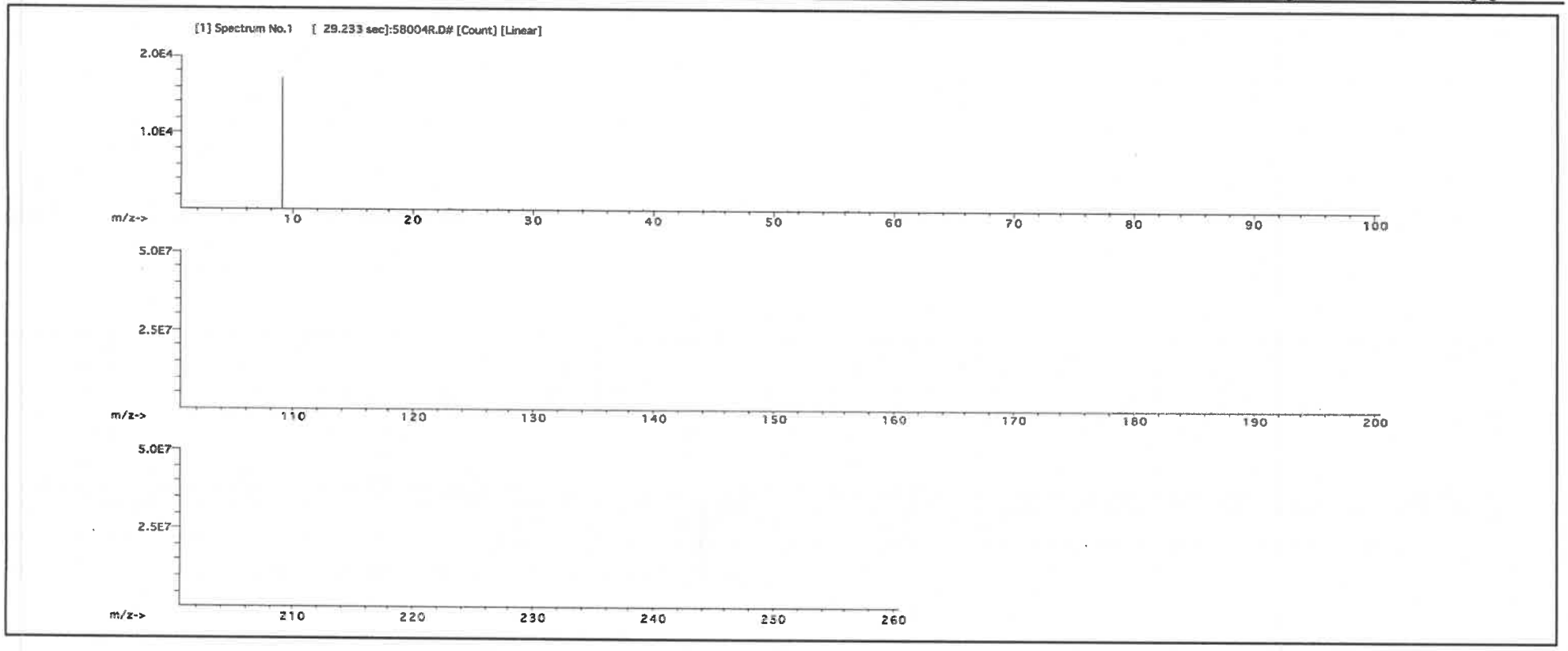
645

CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:		
Part Number:	**57004**	24002546	Nitric Acid		
Lot Number:	**102523**				
Description:	**Beryllium (Be)**	2.0%	40.0 (mL)	Nitric Acid	
Expiration Date:	102526				
Recommended Storage:	Ambient (20 °C)				
Nominal Concentration (µg/mL):	**1000**				
NIST Test Number:	6UTB	5E-05	Balance Uncertainty		
Volume shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty		

Formulated By:	Benson Chan	102523
Reviewed By:	Pedro L. Rentas	102523

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Beryllium nitrate (Be)	58104	091423	0.1000	200.0	0.084	1000	10001.5	**1000.0**	**2.2**	13597-99-4	0.2ug/m3	intrvns-rat 3.16mg/kg	NA



Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																		
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	T	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

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* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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647

CERTIFIED WEIGHT REPORT:

Part Number: 57050
Lot Number: 071123
Description: Tin (Sn)

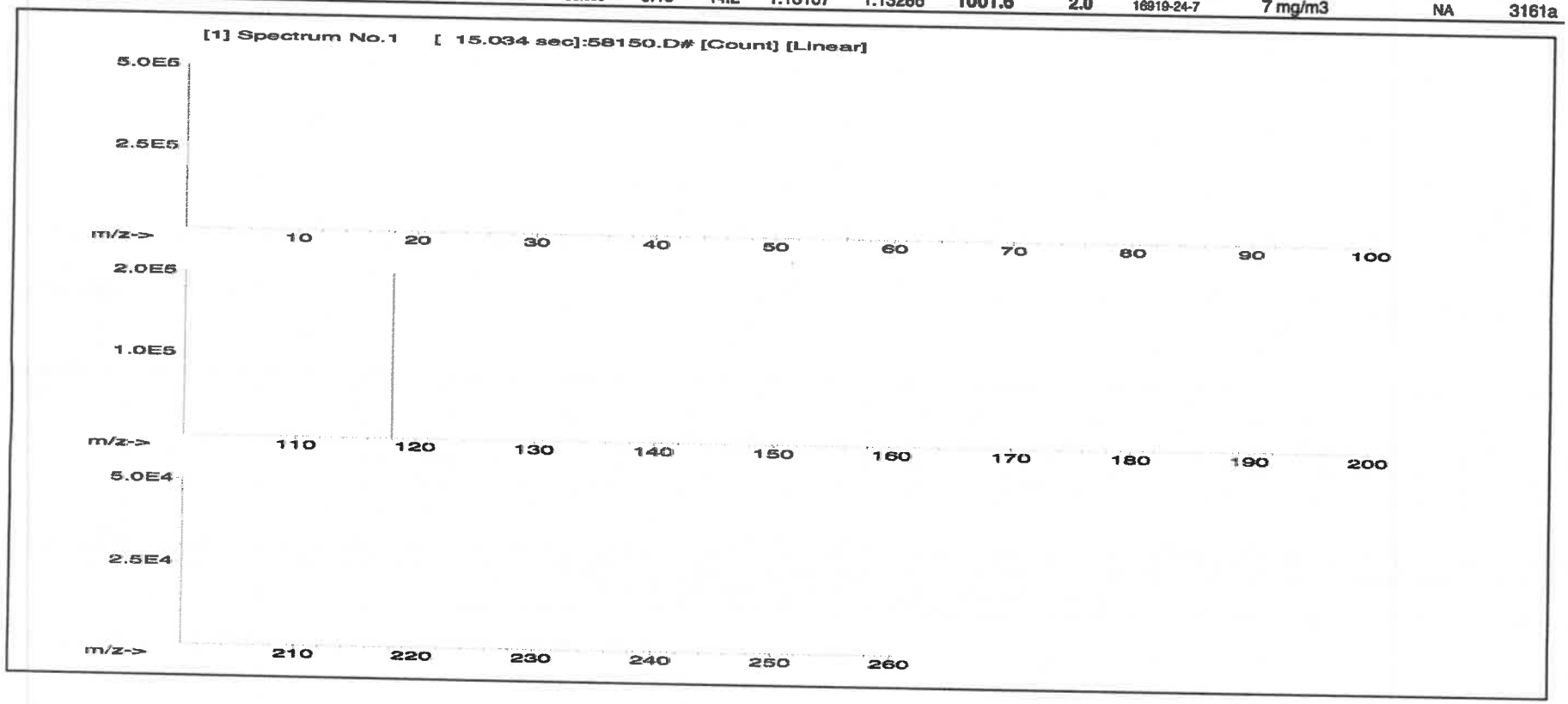
Expiration Date: 071126
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 1000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 499.93

	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



648

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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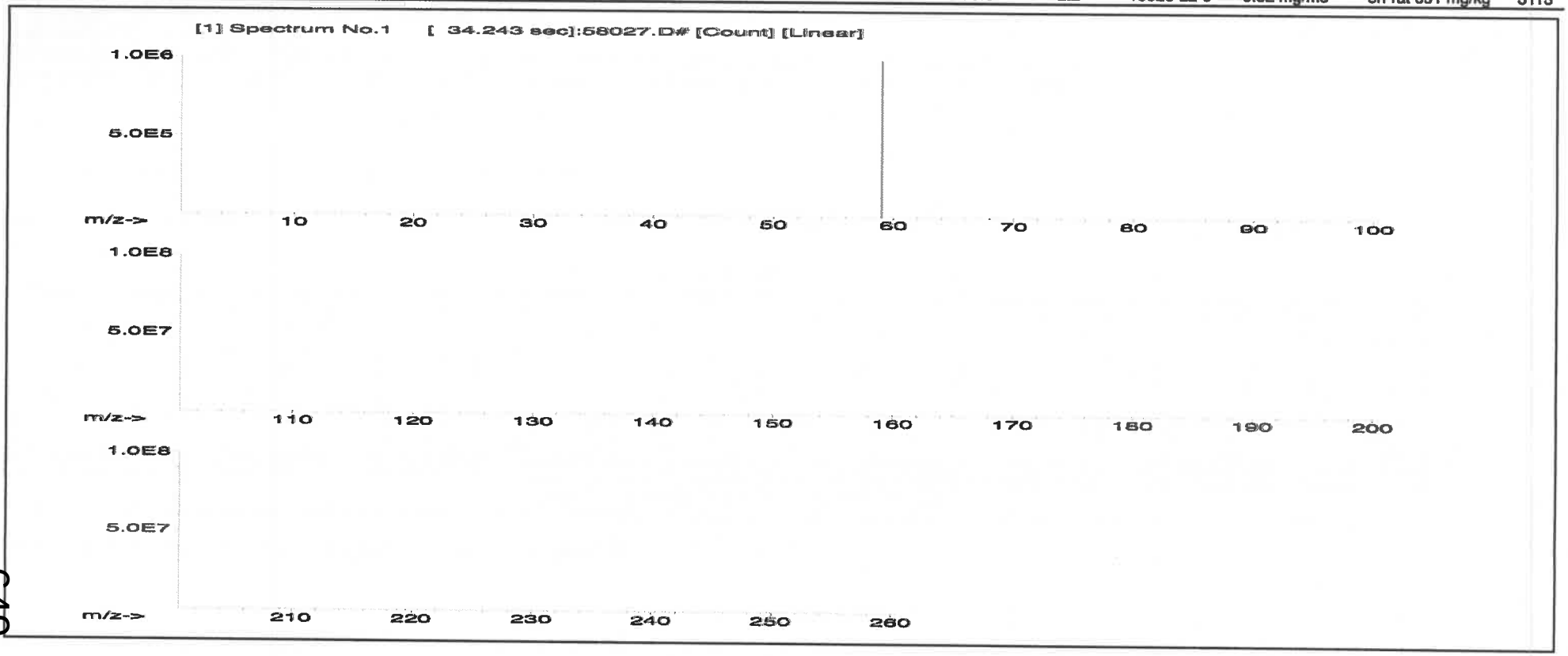
CERTIFIED WEIGHT REPORT:

		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



649

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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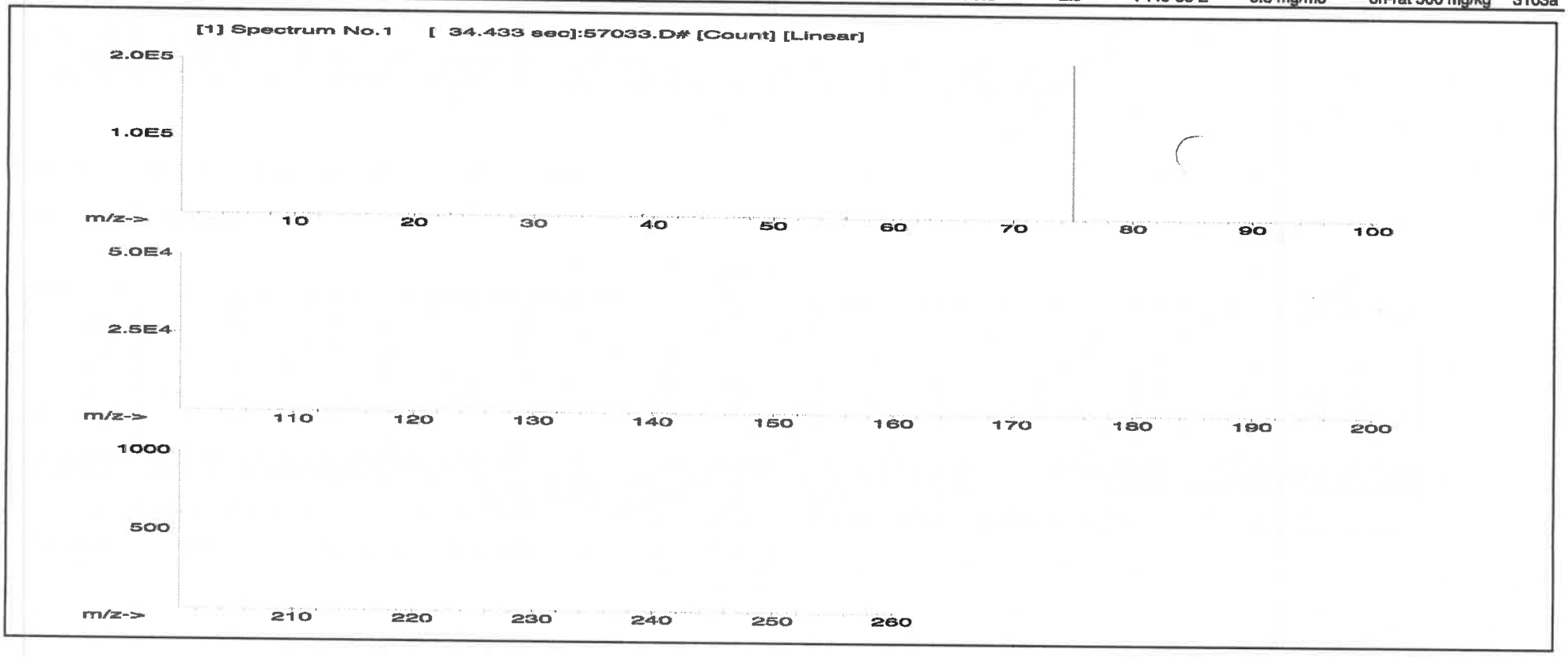
651

CERTIFIED **WEIGHT** REPORT:

		Lot #	Solvent:		
Part Number:	**57033**	24002546	Nitric Acid		
Lot Number:	**111323**				
Description:	**Arsenic (As)**	2.0%	80.0 (mL)	Nitric Acid	
Expiration Date:	111326				
Recommended Storage:	Ambient (20 °C)				
Nominal Concentration (µg/mL):	**1000**				
NIST Test Number:	6UTB	5E-05	Balance Uncertainty		
Volume shown below was diluted to (mL):	4000.0	0.06	Flask Uncertainty		

Formulated By:	Lawrence Barry	111323
Reviewed By:	Pedro L. Rentas	111323

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Arsenic (As)	58133	020522	0.1000	400.0	0.084	1000	10001.0	**1000.0**	**2.0**	7440-38-2	0.5 mg/m3	orl-rat 500 mg/kg	3103a



652

Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	T	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge*	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
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* All standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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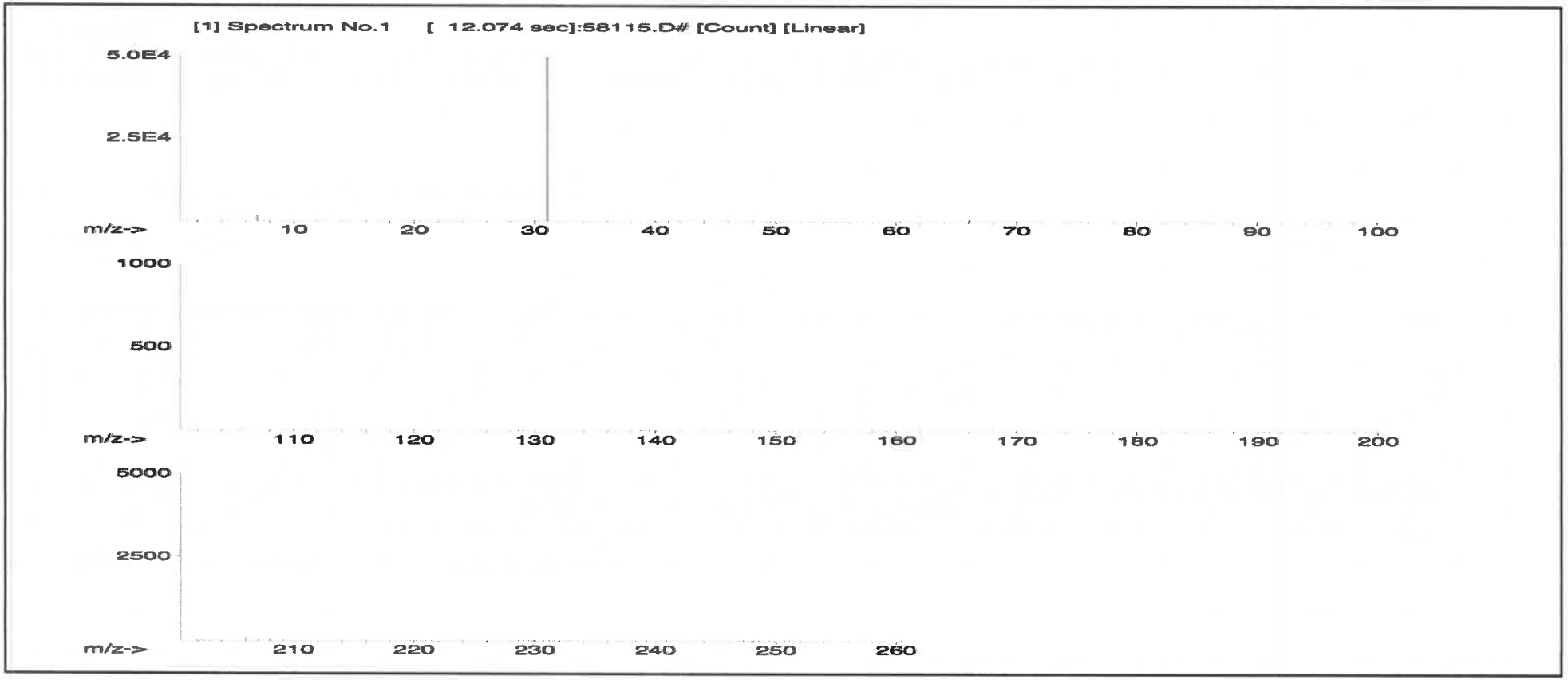
653

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



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.

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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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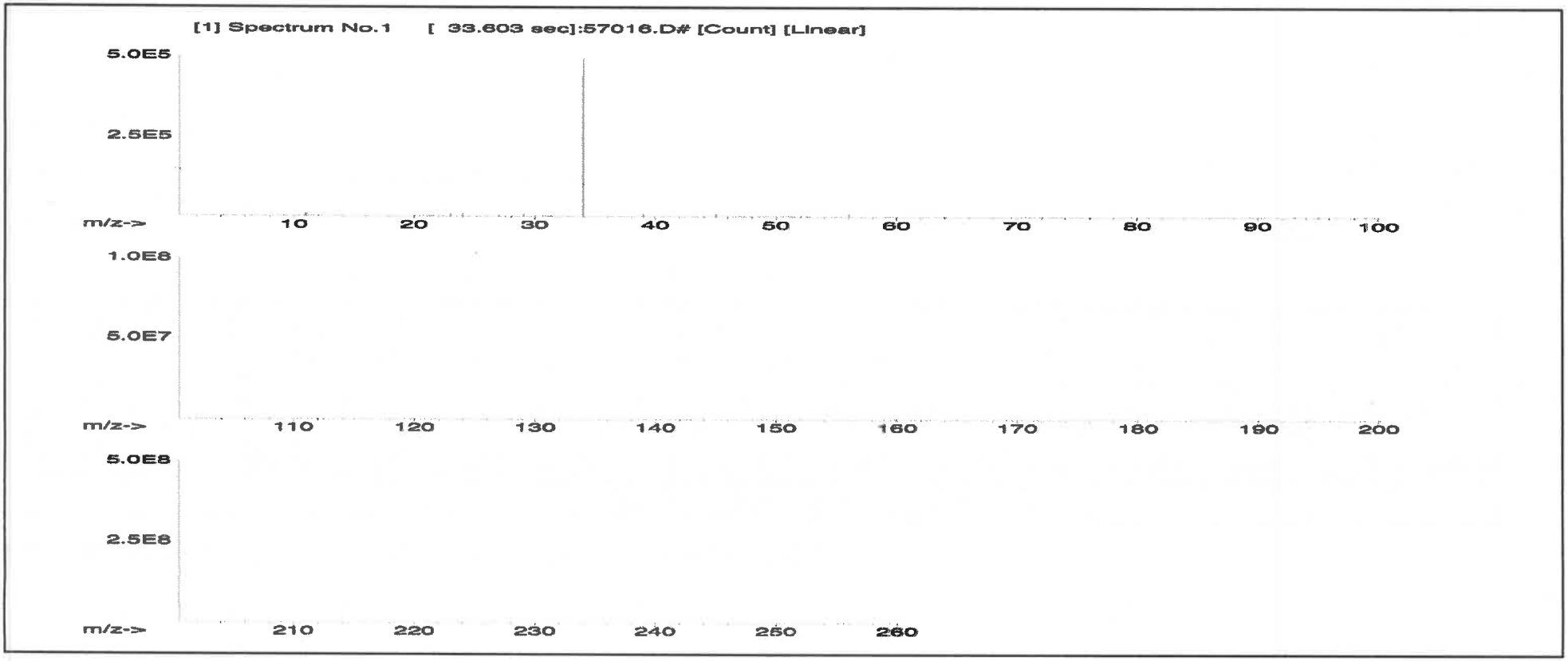
655

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



959

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:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

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657

CERTIFIED WEIGHT REPORT:

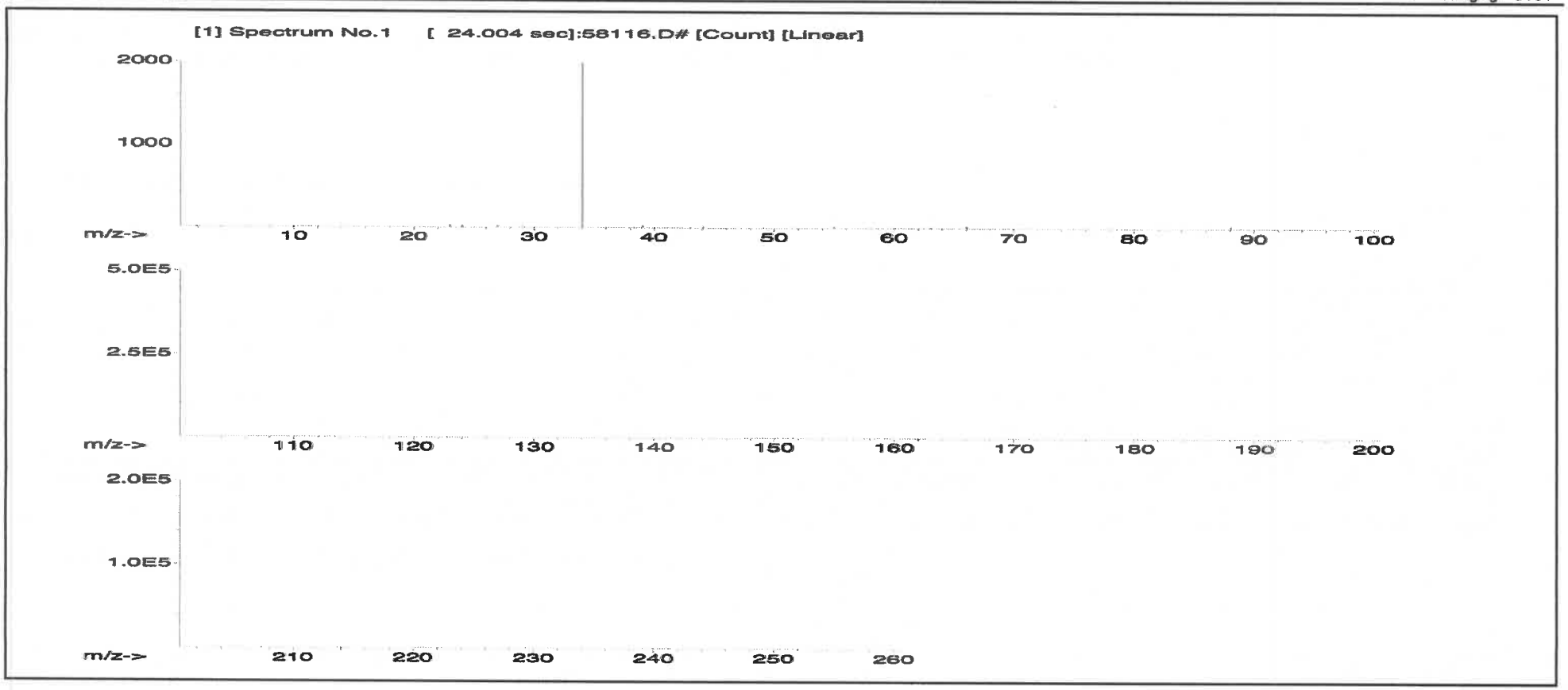
Part Number: 57116
Lot Number: 071123
Description: Sulfur (S)

Lot #
Solvent: 071123 ASTM Type 1 Water

Expiration Date: 071126
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB 5E-05 Balance Uncertainty
Weight shown below was diluted to (mL): 1999.48 0.058 Flask Uncertainty

Formulated By:	Lawrence Barry	071123
Reviewed By:	Pedro L. Rentas	071123

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Ammonium sulfate (S)	IN117	SLBR7225V	10000	99.9	0.10	24.3	82.4675	82.4682	**10000.1**	**20.0**	7783-20-2	NA	orl-rat 4250mg/kg	3181



658

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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Lot #

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659

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

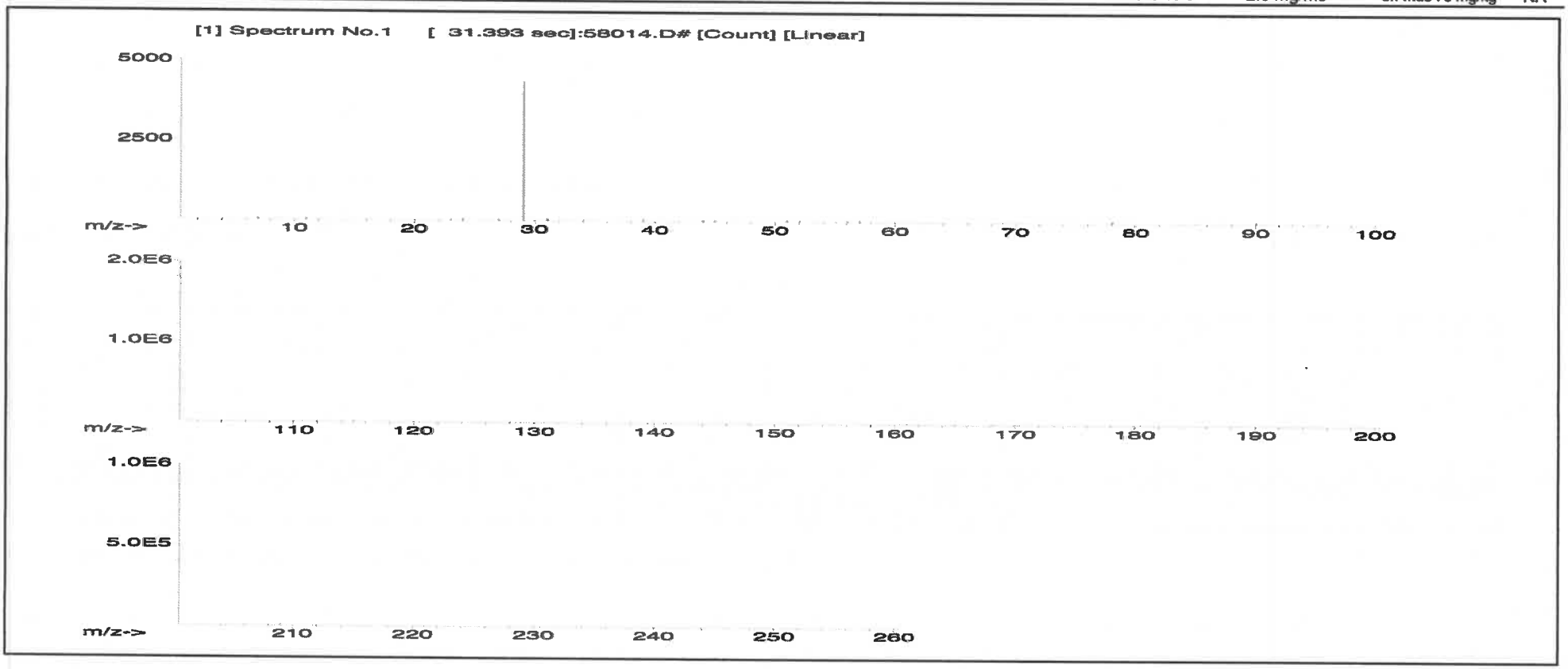
Aleah O'Brady

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



099

Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	T	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

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661

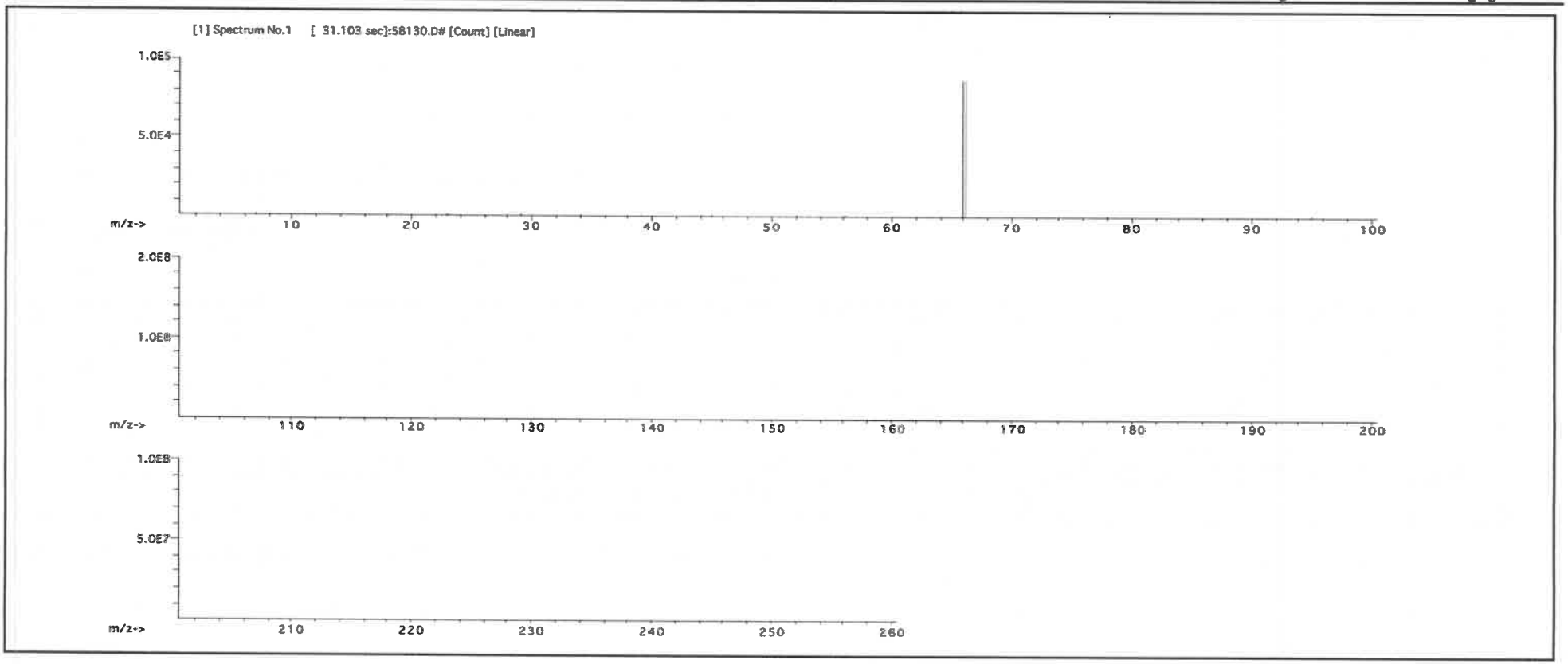
CERTIFIED WEIGHT REPORT:

Part Number:	**58030**			
Lot Number:	**111623**			
Description:	**Zinc (Zn)**			
		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	

Lot #

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



662

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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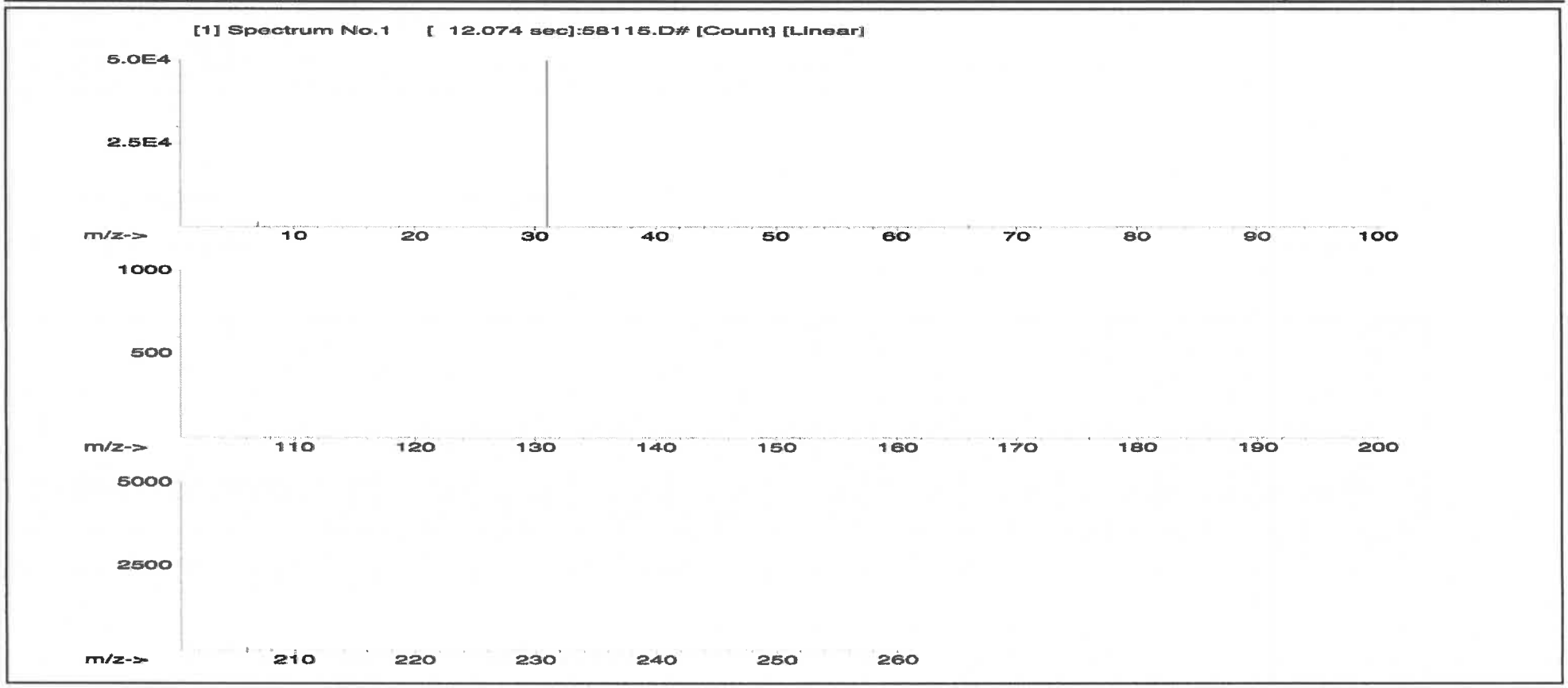
663

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



664

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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800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

M5961 R: 6/11/24

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

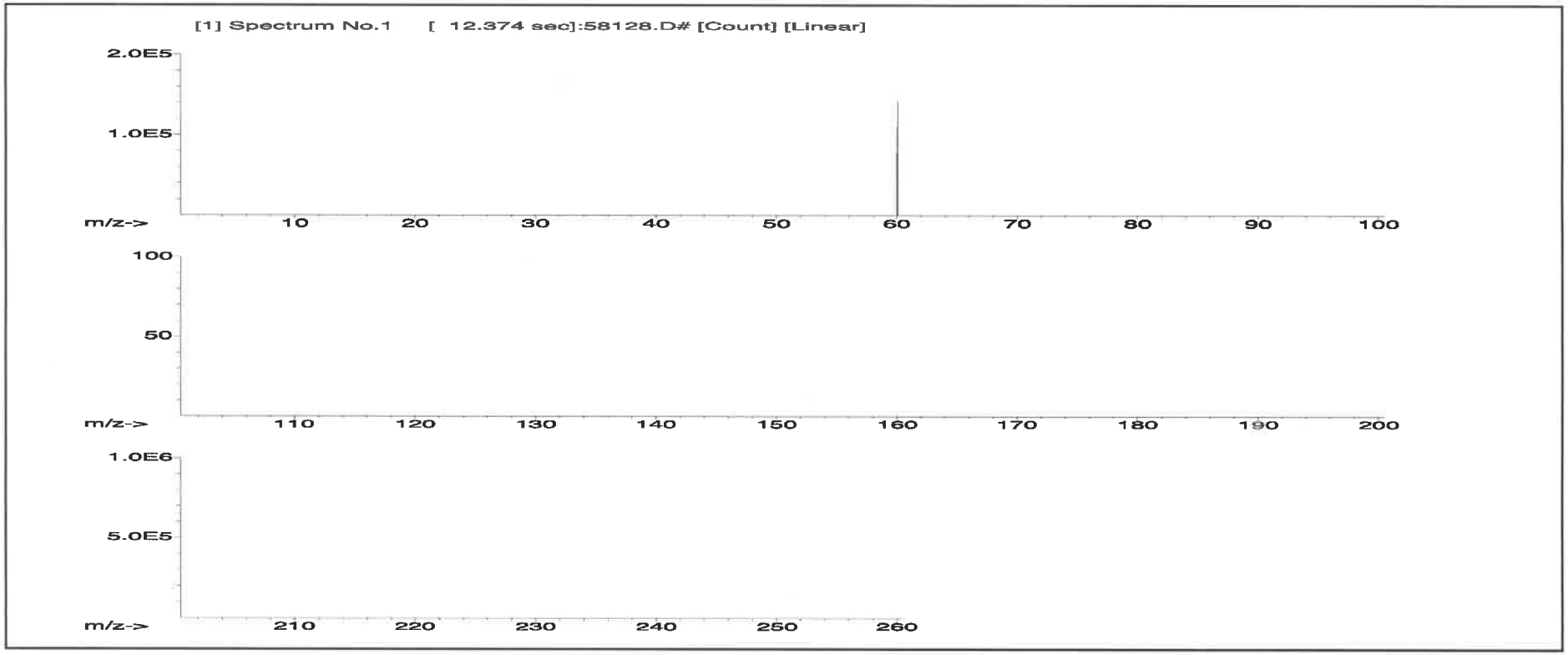
995

CERTIFIED WEIGHT REPORT:

			Lot #	
Part Number:	**57028**	**Solvent:**	24002546	Nitric Acid
Lot Number:	**041124**			
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



999

Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	T	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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Certified Reference Material CRM

M5962 R! 06/14/24.

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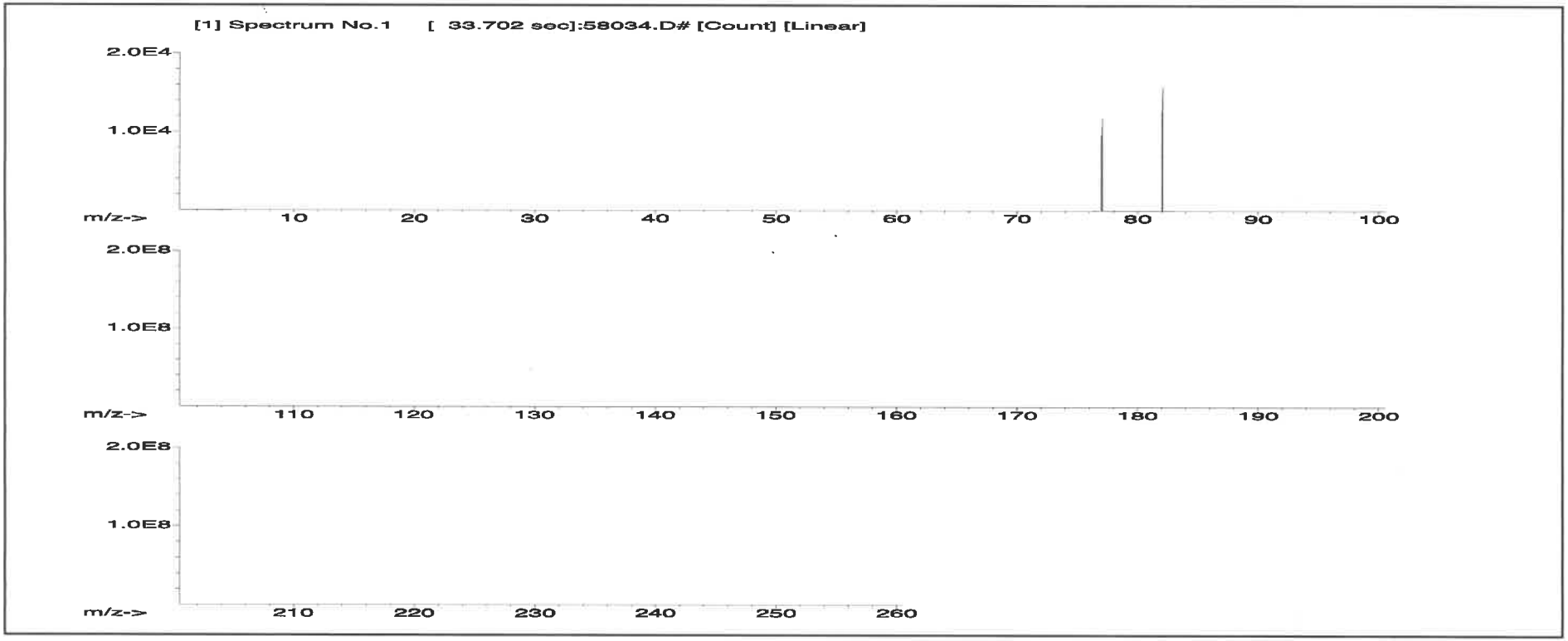
667

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



898

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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info@inorganicventures.com

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01 — ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGMO1
Lot Number:	T2-MO720876
Matrix:	H2O tr. NH4OH
Value / Analyte(s):	1 000 µg/mL ea: Molybdenum
Starting Material:	Ammonium Molybdate
Starting Material Lot#:	2361
Starting Material Purity:	99.9893%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 998 ± 7 µg/mL

Density: 1.000 g/mL (measured at 20 ± 4 °C)

Assay Information:

Assay Method #1 **998 ± 4 µg/mL**
ICP Assay NIST SRM 3134 Lot Number: 130418

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance.

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2 (u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

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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

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

July 17, 2022

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- July 17, 2027

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Prepared By:

Uyen Truong
Supervisor, Product Documentation



Certificate Approved By:

Michael Booth
Director, Technical



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director



M5978, M5979

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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01 ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGTI1
Lot Number:	T2-TI719972
Matrix:	2% (v/v) 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

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

June 17, 2022

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- June 17, 2027

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Thomas Kozikowski
Manager, Quality Control

Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

H5981 R:6/11/24

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:		
Part Number:	**57092**	24002546	Nitric Acid		
Lot Number:	**060724**				
Description:	**Uranium (U)**	2.0%	40.0 (mL)	Nitric Acid	
Expiration Date:	060727				
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		

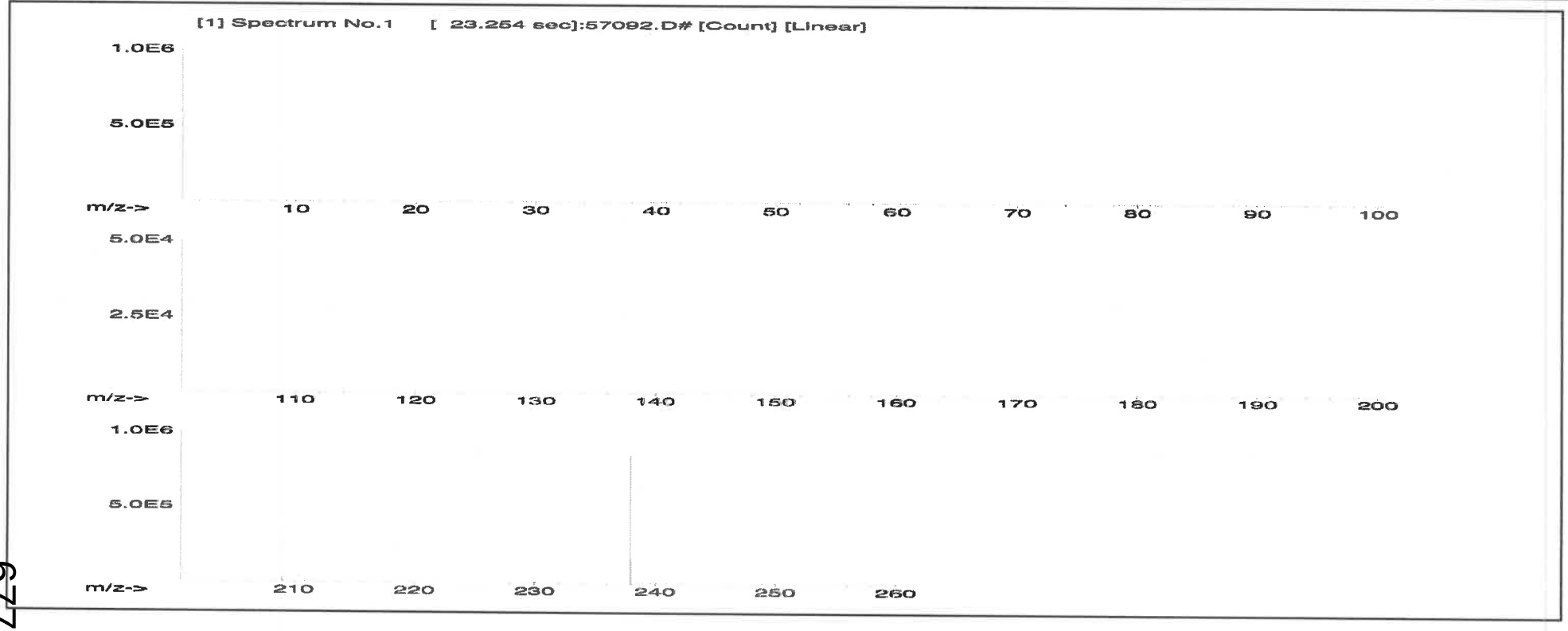
Giovanni Esposito

Formulated By:	Giovanni Esposito	060724

Pedro Rentas

Reviewed By:	Pedro L. Rentas	060724

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. Uranyl nitrate hexahydrate (U)	58192	041524	0.1000	200.0	0.084	1000	10001.5	**1000.0**	**2.2**	13520-83-7	0.05 mg/m3	orl-rat 1040 mg/kg	3164



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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	T
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

45982 R: 6/11/24

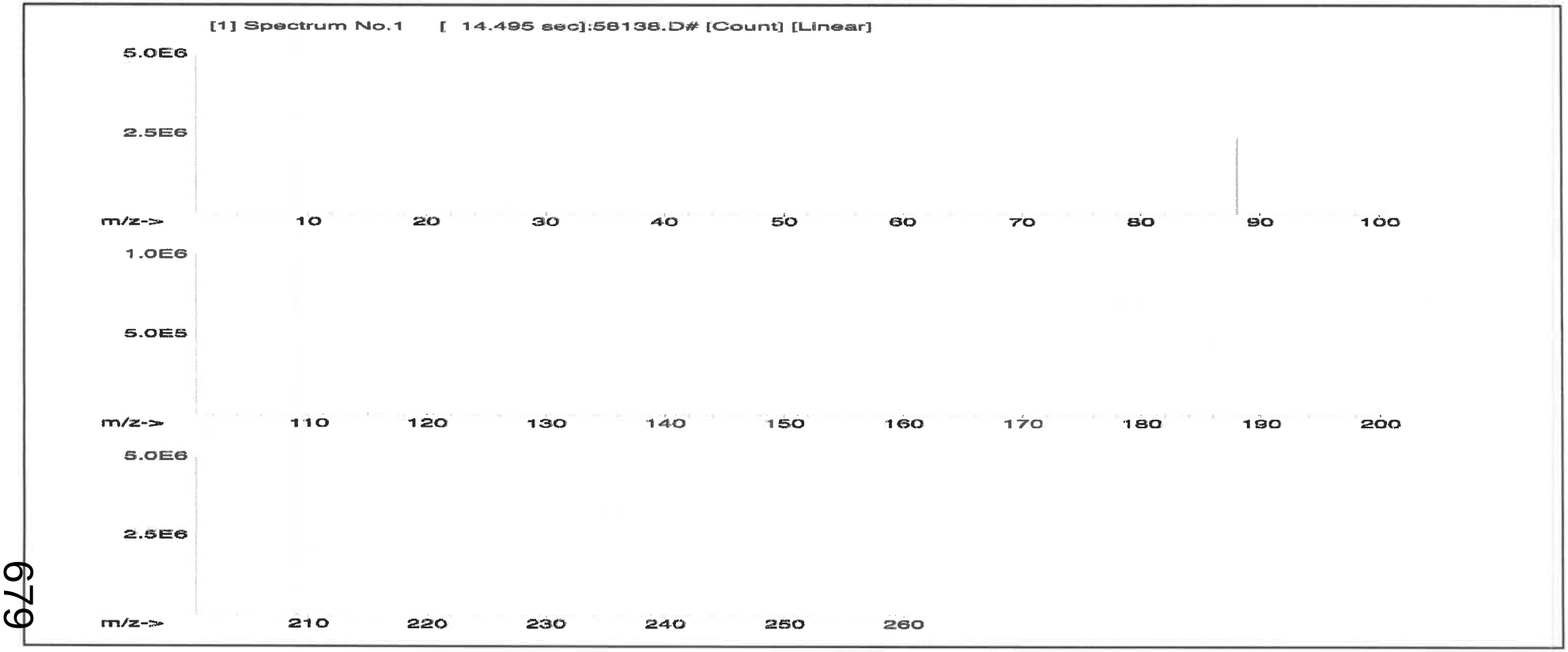
ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT:

			Lot #	
Part Number:	**57038**	**Solvent:**	24002546	Nitric Acid
Lot Number:	**031524**			
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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Certified Reference Material CRM

M5983 R: 6/11/24

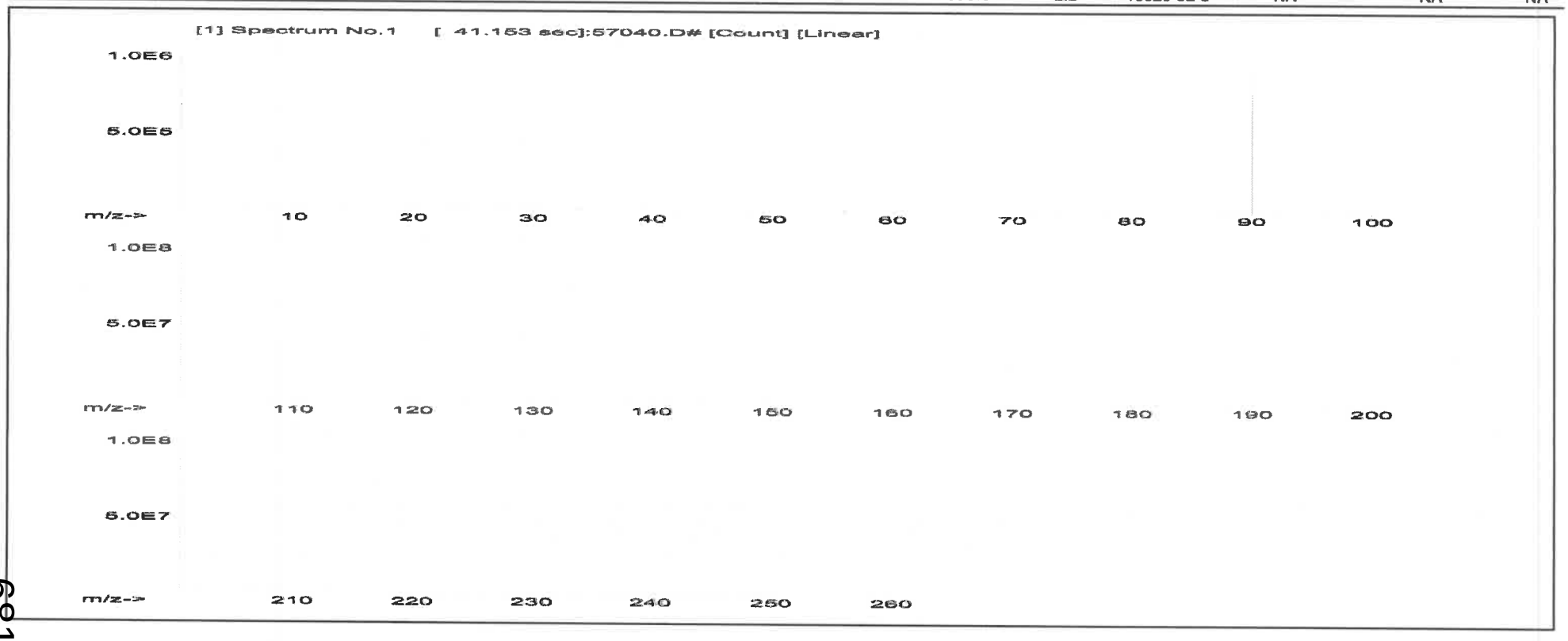
ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:	
Part Number:	57040	21110221	Nitric Acid	
Lot Number:	071423			
Description:	Zirconium (Zr)	2.0%	40.0 (mL)	Nitric Acid
Expiration Date:	071426			
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	071423
Reviewed By:	Pedro L. Rentas	071423

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. Zirconyl chloride octahydrate (Zr)	58140	070621	0.1000	200.0	0.084	1000	10000.3	**1000.0**	**2.2**	13520-92-8	NA	NA	NA



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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	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	T

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:



* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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Refine your results. Redefine your industry.

Certificate of Analysis

300 Technology Drive
Christiansburg, VA 24073 USA
inorganicventures.com

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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:

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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

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		

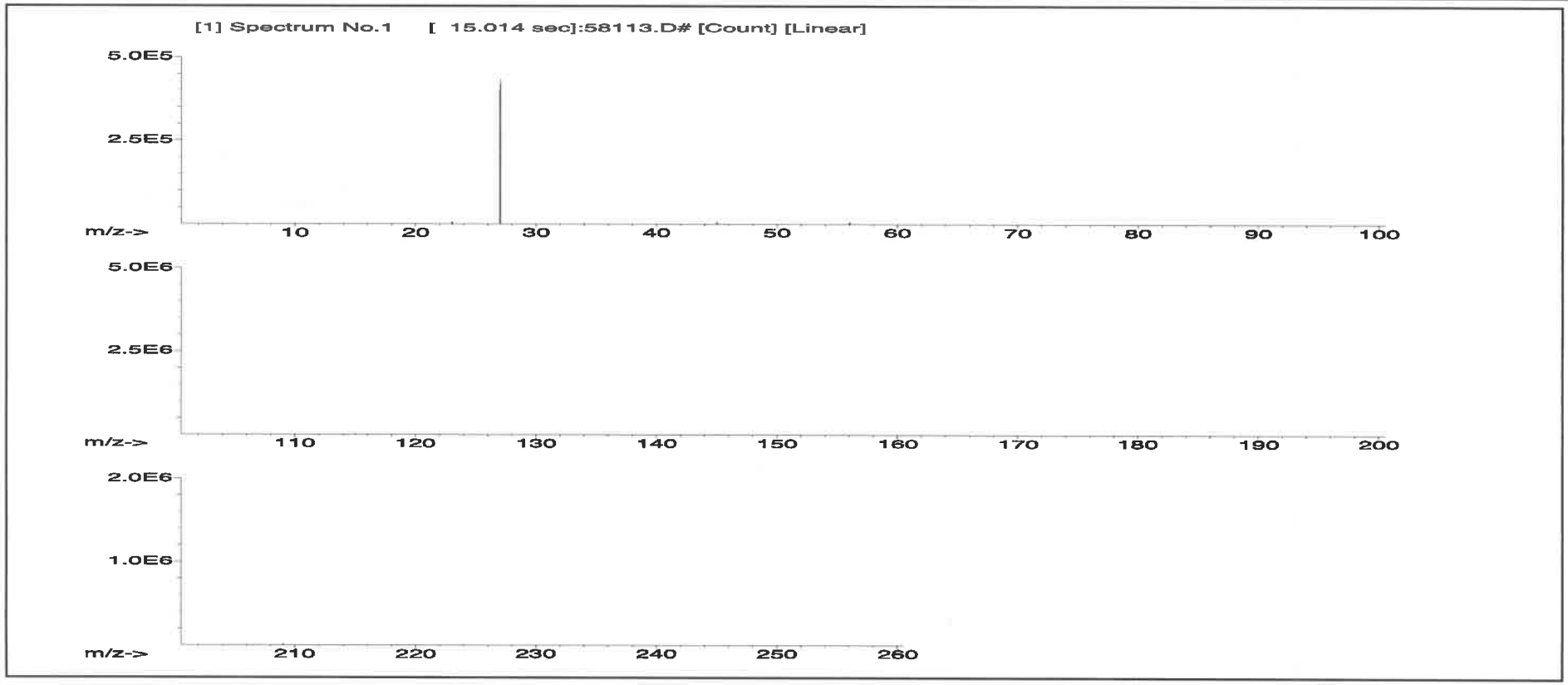
Giovanni Esposito

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



INORGANIC VENTURES™
Refine your results. Redefine your industry.

Certificate of Analysis

R 8/19/24, M60055

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:	IV-STOCK-12
Lot Number:	U2-MEB734294
Matrix:	5% (v/v) HNO3
Value / Analyte(s):	10 µg/mL ea:

Barium, Beryllium,
Bismuth, Cerium,
Cobalt, Indium,
Lithium, Nickel,
Lead, Uranium

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
Barium, Ba	10.01 ± 0.04 µg/mL	Beryllium, Be	10.01 ± 0.05 µg/mL
Bismuth, Bi	10.01 ± 0.06 µg/mL	Cerium, Ce	10.01 ± 0.04 µg/mL
Cobalt, Co	10.01 ± 0.05 µg/mL	Indium, In	10.01 ± 0.04 µg/mL
Lead, Pb	10.00 ± 0.04 µg/mL	Lithium, Li	10.01 ± 0.04 µg/mL
Nickel, Ni	10.01 ± 0.04 µg/mL	Uranium, U	10.01 ± 0.05 µg/mL

Density: 1.025 g/mL (measured at 20 ± 4 °C)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
Ba	ICP Assay	3104a	140909
Ba	Calculated		See Sec. 4.2
Ba	Gravimetric		See Sec. 4.2
Be	ICP Assay	3105a	090514
Be	Calculated		See Sec. 4.2
Bi	ICP Assay	3106	180815
Ce	ICP Assay	3110	160830
Ce	EDTA	928	928
Ce	Calculated		See Sec. 4.2
Co	ICP Assay	3113	190630
Co	EDTA	928	928
Co	Calculated		See Sec. 4.2
In	ICP Assay	3124a	110516
In	EDTA	928	928
In	Calculated		See Sec. 4.2
Li	ICP Assay	3129a	100714
Li	Calculated		See Sec. 4.2
Li	Gravimetric		See Sec. 4.2
Ni	ICP Assay	3136	120619
Ni	EDTA	928	928
Ni	Calculated		See Sec. 4.2
Pb	ICP Assay	3128	101026
Pb	EDTA	928	928
Pb	Calculated		See Sec. 4.2
U	ICP Assay	traceable to 3164	R2-U689597
U	Calculated		See Sec. 4.2

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Certified Abundance:

IV's Certified Abundance

Isotope	Atom %
Uranium 238U	99.8 ± 0.1
Uranium 235U	0.19 ± 0.05

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

N/A

6.0 INTENDED USE

6.1 This standard is intended for the calibration of analytical instruments and validation of analytical methods as appropriate. This CRM may be used in connection with EPA Methods 6010, 6020 (all versions), Standard Methods 3120 B and USP <232> / ICH Q3D.

6.2 For products attaining traceability through Inorganic Ventures' Primary Certified Reference Materials (PCRM™) see the Limited License to Use PCRM™ in the Inorganic Ventures Terms and Conditions of Sale, https://www.inorganicventures.com/terms-and-conditions-sale. The Terms and Conditions contain information on the use of materials traceable to PCRM™ certified reference materials. This Limited License agreement is especially pertinent for laboratories accredited under ISO:17034.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

June 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

- June 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



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 >>>

For questions on this Certificate of Analysis please contact Technical Services at 855 282 6867 or +1 610 386 1700

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

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

R: 01/03/24 M5806, M5807

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

704

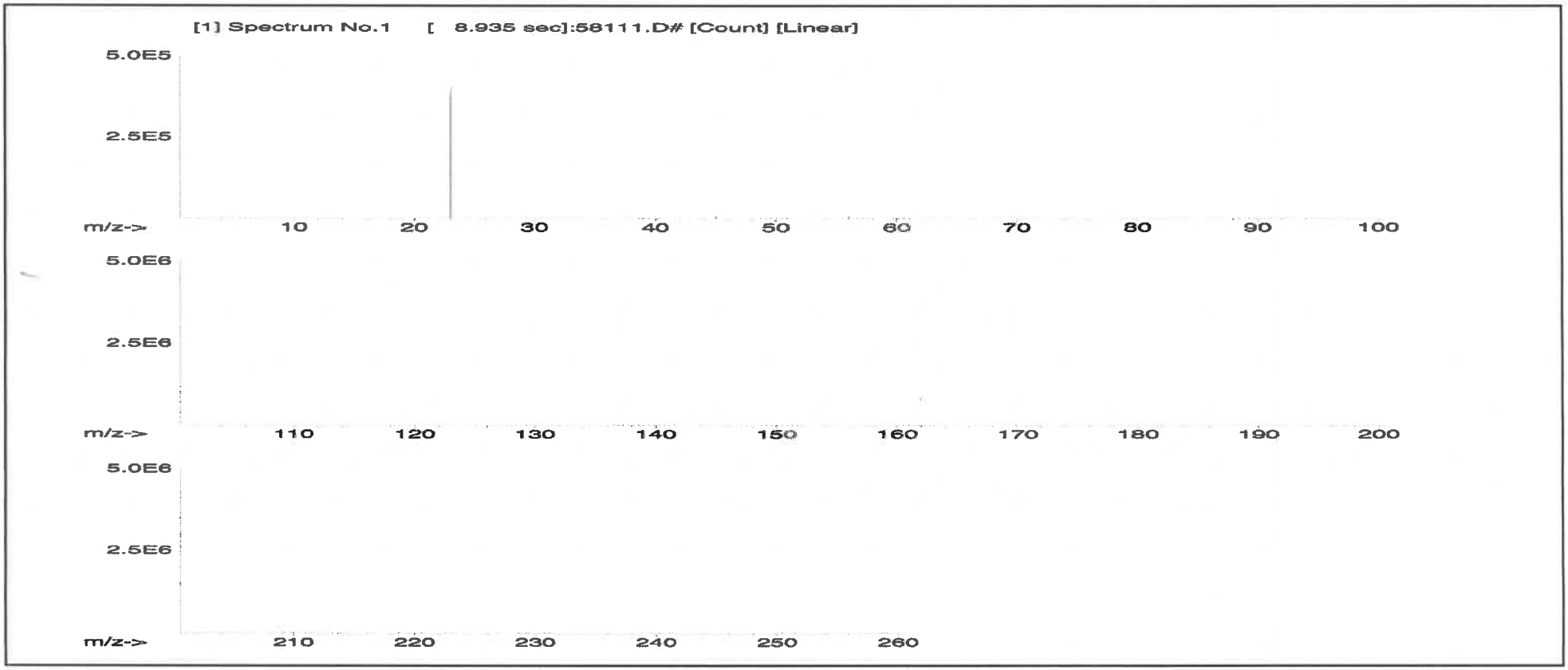
CERTIFIED WEIGHT REPORT:

			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



705

Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	T	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

INORGANIC VENTURES™

Refine your results. Redefine your industry.

A: 4/11/22

Certificate of Analysis

M5738, M5739, M5740, M5741, M5742, M5743

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:	6020ISS
Lot Number:	S2-MEB709511
Matrix:	7% (v/v) HNO3
Value / Analyte(s):	10 µg/mL ea:

Bismuth, Holmium,
Indium, 6-Lithium,
Rhodium, Scandium,
Terbium, Yttrium

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
6-Lithium, Li6	10.00 ± 0.03 µg/mL	Bismuth, Bi	10.00 ± 0.05 µg/mL
Holmium, Ho	10.00 ± 0.05 µg/mL	Indium, In	10.00 ± 0.04 µg/mL
Rhodium, Rh	10.00 ± 0.07 µg/mL	Scandium, Sc	10.00 ± 0.04 µg/mL
Terbium, Tb	10.00 ± 0.04 µg/mL	Yttrium, Y	10.00 ± 0.04 µg/mL

Density: 1.035 g/mL (measured at 20 ± 4 °C)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
Bi	ICP Assay	3106	180815
Bi	Calculated		See Sec. 4.2
Ho	ICP Assay	3123a	090408
Ho	EDTA	928	928
In	ICP Assay	3124a	110516
In	EDTA	928	928
In	Calculated		See Sec. 4.2
Li6	Gravimetric		See Sec. 4.2
Rh	ICP Assay	3144	070619
Sc	ICP Assay	3148a	100701
Sc	EDTA	928	928
Tb	ICP Assay	3157a	100518
Tb	EDTA	928	928
Tb	Calculated		See Sec. 4.2
Y	ICP Assay	3167a	120314
Y	EDTA	928	928
Y	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

Certified Abundance:

IV's Certified Abundance

Isotope	Atom %
Lithium Li6	95.6 ± 0.3
Lithium Li7	4.4 ± 0.1

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

N/A

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

September 03, 2021

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- September 03, 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-MS (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 an 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-0803" and for the ICSAB mixture use "ICSA-0803+ICSB-0803".**

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 the Contracting Officer, Ross Miller at miller.ross@epa.gov. If directed by Ross Miller, 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*

This interference check sample set is to be used to verify elemental isobaric correction factors of inductively coupled plasma-mass spectrometers (ICP-MS). This reference material set consists of two (2) concentrated solutions. The ICSA solution contains several interferent elements and species; for a complete listing refer to the CLP SOW. 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 the ICP-MS ICS 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-0803, Inferferents: Pipet 10 mL of the ICSA solution into a 100 mL volumetric flask and dilute to volume with 1% v/v HNO_3. Analyze this solution by ICP-MS.

ICSB-0803, Analytes, mixed with ICSA-0803, 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 1% v/v HNO_3. Analyze this ICSAB solution by ICP-MS.

(D) *"CERTIFIED VALUE" CONCENTRATIONS OF QATS ICP-MS 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-MS ICSA-0803, AND ICSA-0803 MIXED WITH ICSB-0803

ICSA: M5873

ICSB: M5874

Element	CRQL	Part A (µg/L)	Lower Limit (µg/L)	Upper Limit (µg/L)	Part A +Part B (µg/L)	Lower Limit (µg/L)	Upper Limit (µg/L)
Al	20.0	[100000]			[100000]		
Sb	2.0	(1.5)	-2.5	5.5	(22.0)	18.0	26.0
As	1.0	(0.1)	-1.9	2.1	19.0	16.2	21.9
Ba	10.0	(1.2)	-18.8	21.2	(22.0)	2.0	42.0
Be	1.0	(0)	-2.0	2.0	19.0	16.2	21.9
Cd	1.0	(0.7)	-1.3	2.7	20.0	17.0	23.0
Ca	500	[100000]			[100000]		
C		[200000]			[200000]		
Cl		[1000000]			[1000000]		
Cr	2.0	(21.0)	17.0	25.0	40.0	34.0	46.0
Co	1.0	(1.0)	-1.0	3.0	20.0	17.0	23.0
Cu	2.0	(8.0)	4.0	12.0	(25.0)	21.0	29.0
Fe	200	[100000]			[100000]		
Pb	1.0	(4.0)	2.0	6.0	25.0	21.3	28.8
Mg	500	[100000]			[100000]		
Mn	1.0	(7.0)	5.0	9.0	27.0	23.0	31.1
Mo		[2000]			[2000]		
Ni	1.0	(6.0)	4.0	8.0	24.0	20.4	27.6
P		[100000]			[100000]		
K	500	[100000]			[100000]		
Se	5.0	(0.3)	-9.7	10.3	(19.0)	9.0	29.0
Ag	1.0	(0)	-2.0	2.0	18.0	15.3	20.7
Na	500	[100000]			[100000]		
S		[100000]			[100000]		
Tl	1.0	(0)	-2.0	2.0	21.0	17.9	24.2
Ti		[2000]			[2000]		
V	5.0	(0.5)	-9.5	10.5	(19.0)	9.0	29.0
Zn	5.0	(11.0)	1.0	21.0	(29.0)	19.0	39.0

[ ] Indicates analytes that do not require ICP-MS determination in the ICS.
The acceptance ranges for all analytes in parentheses in the above table were determined using the listed certified value ± 2 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.

QATS LABORATORY INORGANIC REFERENCE MATERIAL INTERFERENCE CHECK SAMPLE SET FOR ICP-MS (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 an 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-0803" and for the ICSAB mixture use "ICSA-0803+ICSB-0803".**

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 the Contracting Officer, Ross Miller at miller.ross@epa.gov. If directed by Ross Miller, 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*

This interference check sample set is to be used to verify elemental isobaric correction factors of inductively coupled plasma-mass spectrometers (ICP-MS). This reference material set consists of two (2) concentrated solutions. The ICSA solution contains several interferent elements and species; for a complete listing refer to the CLP SOW. 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 the ICP-MS ICS 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-0803, Inferferents: Pipet 10 mL of the ICSA solution into a 100 mL volumetric flask and dilute to volume with 1% v/v HNO_3. Analyze this solution by ICP-MS.

ICSB-0803, Analytes, mixed with ICSA-0803, 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 1% v/v HNO_3. Analyze this ICSAB solution by ICP-MS.

(D) *"CERTIFIED VALUE" CONCENTRATIONS OF QATS ICP-MS 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-MS ICSA-0803, AND ICSA-0803 MIXED WITH ICSB-0803

ICSA: M5873

ICSB: M5874

Element	CRQL	Part A (µg/L)	Lower Limit (µg/L)	Upper Limit (µg/L)	Part A +Part B (µg/L)	Lower Limit (µg/L)	Upper Limit (µg/L)
Al	20.0	[100000]			[100000]		
Sb	2.0	(1.5)	-2.5	5.5	(22.0)	18.0	26.0
As	1.0	(0.1)	-1.9	2.1	19.0	16.2	21.9
Ba	10.0	(1.2)	-18.8	21.2	(22.0)	2.0	42.0
Be	1.0	(0)	-2.0	2.0	19.0	16.2	21.9
Cd	1.0	(0.7)	-1.3	2.7	20.0	17.0	23.0
Ca	500	[100000]			[100000]		
C		[200000]			[200000]		
Cl		[1000000]			[1000000]		
Cr	2.0	(21.0)	17.0	25.0	40.0	34.0	46.0
Co	1.0	(1.0)	-1.0	3.0	20.0	17.0	23.0
Cu	2.0	(8.0)	4.0	12.0	(25.0)	21.0	29.0
Fe	200	[100000]			[100000]		
Pb	1.0	(4.0)	2.0	6.0	25.0	21.3	28.8
Mg	500	[100000]			[100000]		
Mn	1.0	(7.0)	5.0	9.0	27.0	23.0	31.1
Mo		[2000]			[2000]		
Ni	1.0	(6.0)	4.0	8.0	24.0	20.4	27.6
P		[100000]			[100000]		
K	500	[100000]			[100000]		
Se	5.0	(0.3)	-9.7	10.3	(19.0)	9.0	29.0
Ag	1.0	(0)	-2.0	2.0	18.0	15.3	20.7
Na	500	[100000]			[100000]		
S		[100000]			[100000]		
Tl	1.0	(0)	-2.0	2.0	21.0	17.9	24.2
Ti		[2000]			[2000]		
V	5.0	(0.5)	-9.5	10.5	(19.0)	9.0	29.0
Zn	5.0	(11.0)	1.0	21.0	(29.0)	19.0	39.0

[ ] Indicates analytes that do not require ICP-MS determination in the ICS.
The acceptance ranges for all analytes in parentheses in the above table were determined using the listed certified value ± 2 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.

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R: 01/03/24 M5802, M5803

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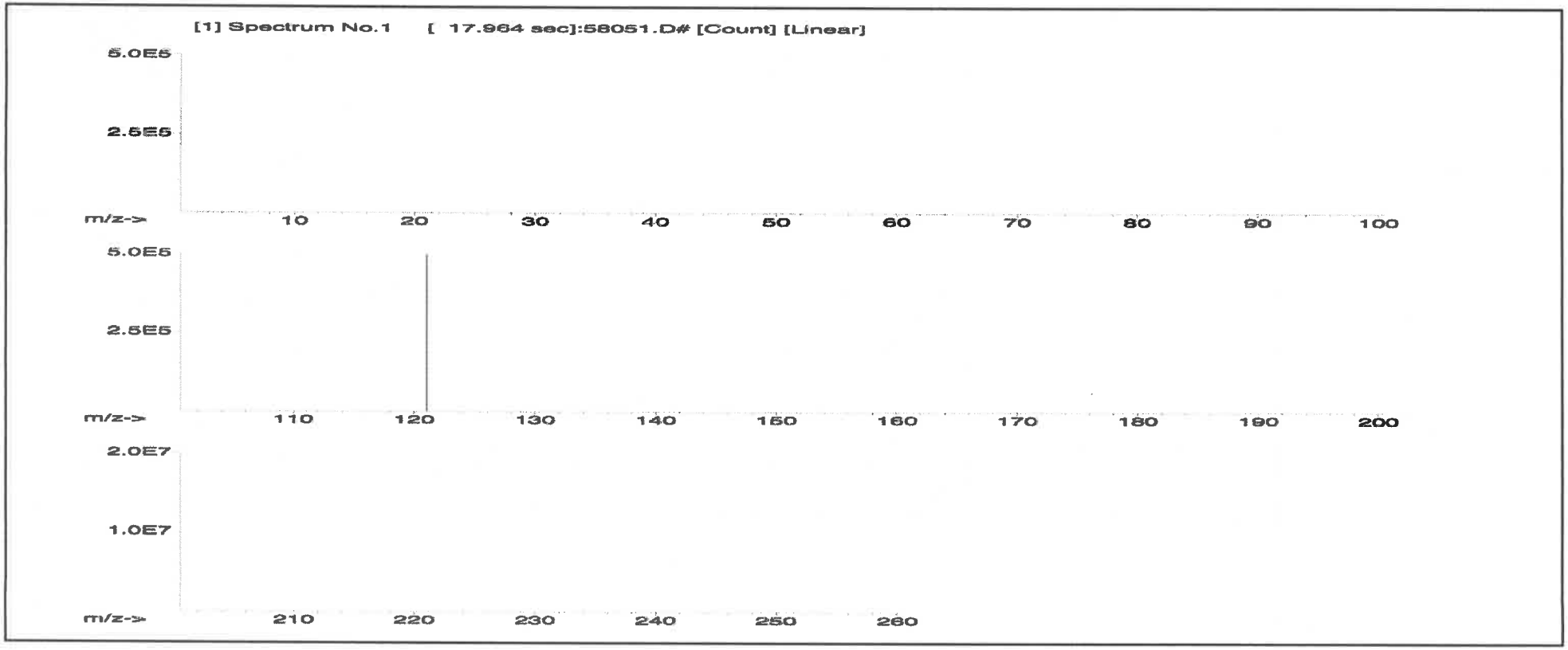
714

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



715

Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	T	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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M6030

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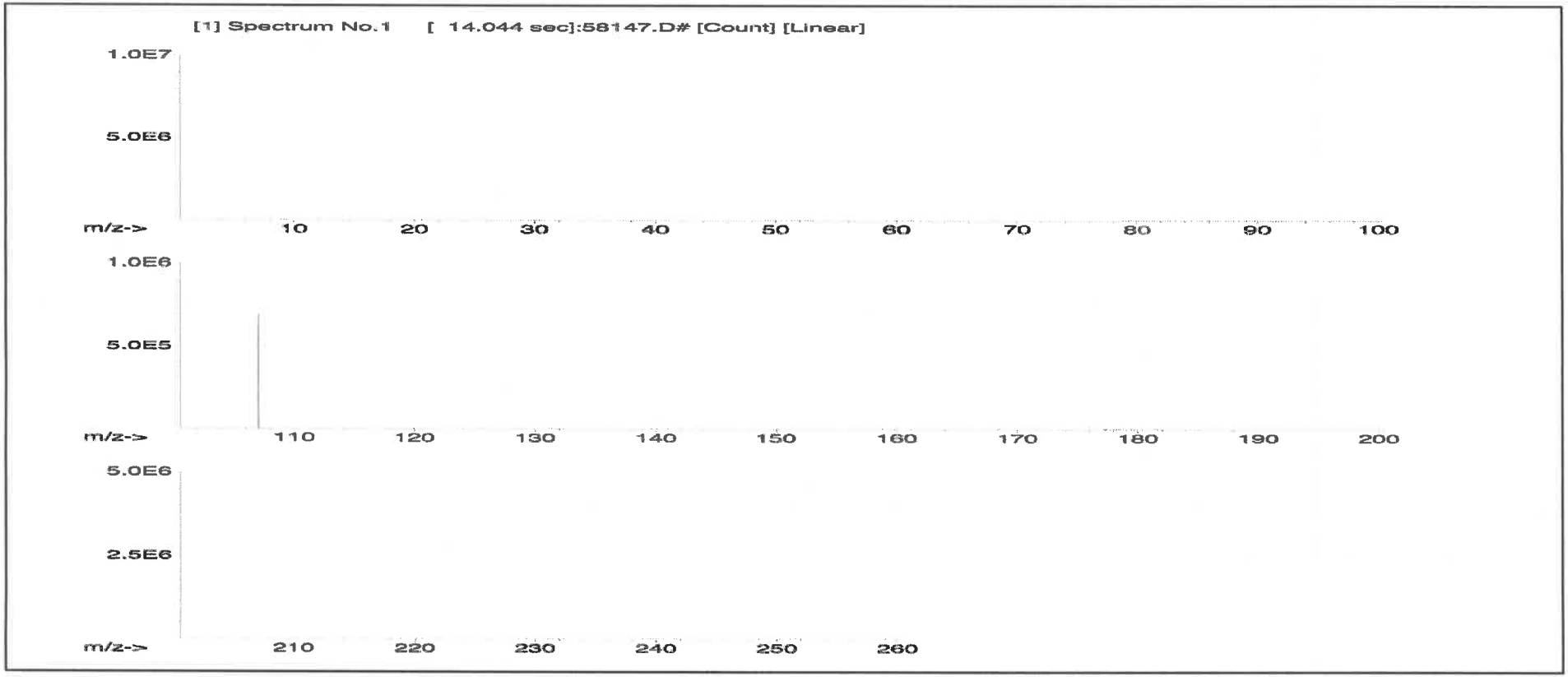
716

CERTIFIED WEIGHT REPORT:

Part Number:	**57047**			**Lot #**	
Lot Number:	**122823**	**Solvent:**	24002546	Nitric Acid	
Description:	**Silver (Ag)**				
		2%	80.0 (mL)	Nitric Acid	
Expiration Date:	122826				
Recommended Storage:	Ambient (20 °C)				
Nominal Concentration (µg/mL):	**1000**				
NIST Test Number:	6UTB	5E-05	Balance Uncertainty		
Weight shown below was diluted to (mL):	4000.30	0.058	Flask Uncertainty		

Formulated By:	Benson Chan	122823
Reviewed By:	Pedro L. Rentas	122823

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Silver nitrate (Ag)	IN035	J0612AGA1	1000.0	99.9999	0.10	63.7	6.27992	6.27998	**1000.0**	**2.0**	7761-88-8	10 ug/m3	NA	3151



717

Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	T	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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R: 03/16/23 M5473, M5474, M5475, M5476

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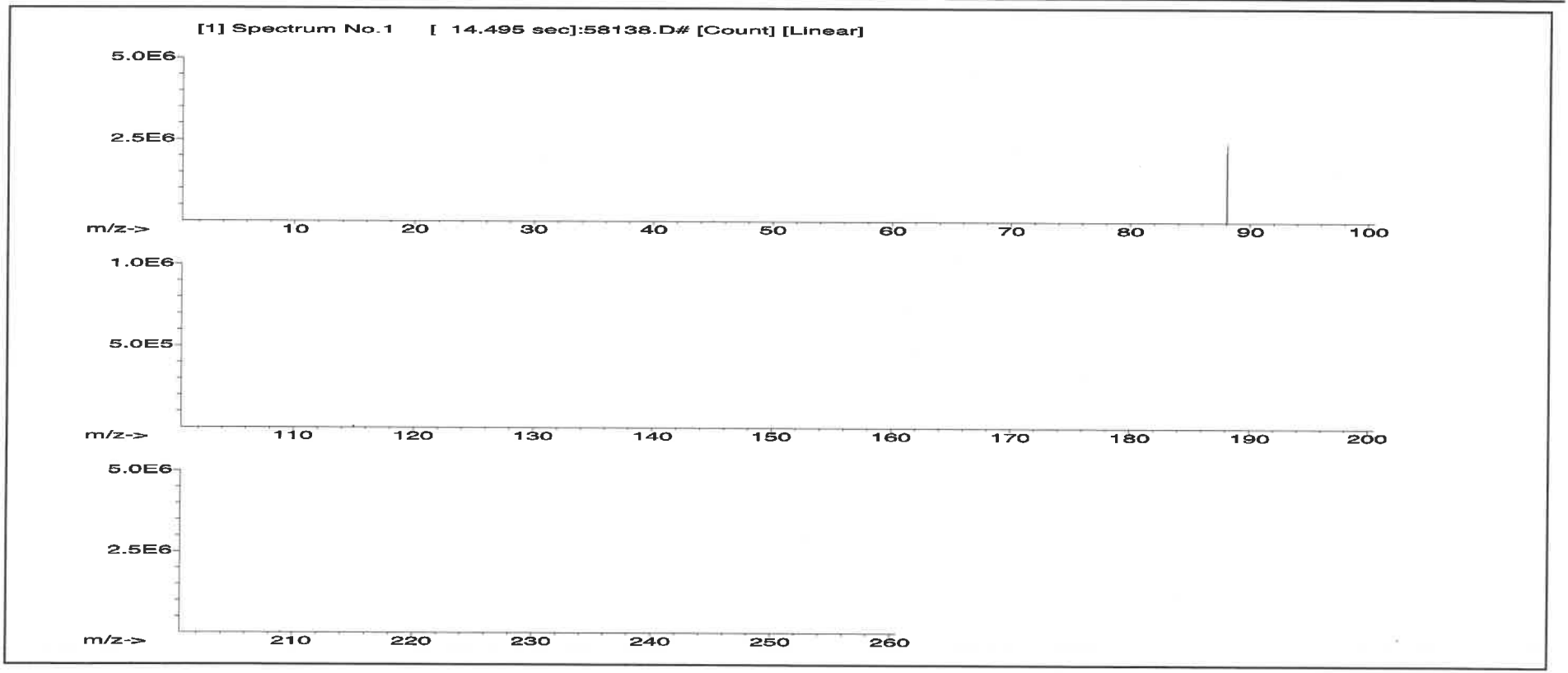
718

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



719

Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	T	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
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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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720

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		

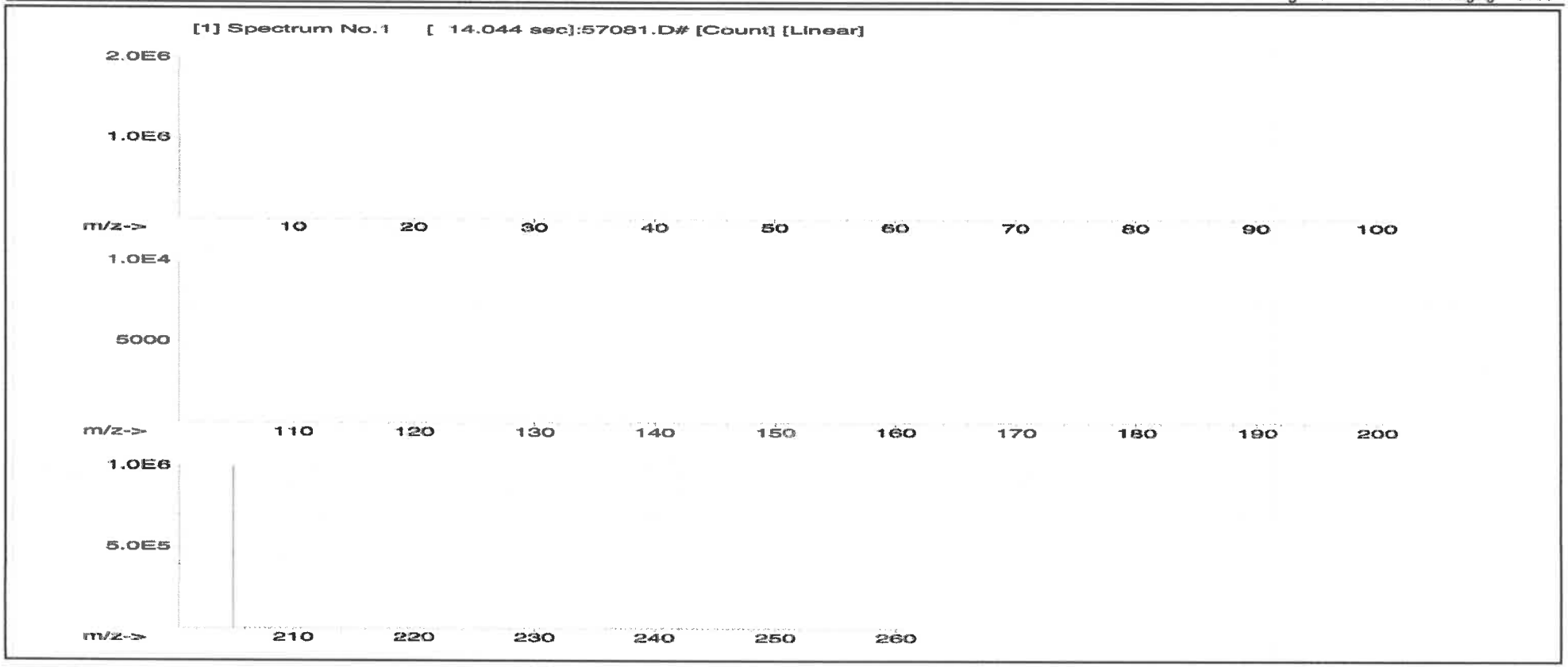
Aleah O'Brady

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



721

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.
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* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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Rc. 8/5/24

722

CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:	
Part Number:	**57023**	24002546	Nitric Acid	
Lot Number:	**062424**			
Description:	**Vanadium (V)**			
		2.0%	40.0 (mL)	Nitric Acid
Expiration Date:	062427			
Recommended Storage:	Ambient (20 °C)			
Nominal Concentration (µg/mL):	**1000**			
NIST Test Number:	6UTB	5E-05	Balance Uncertainty	
Volume shown below was diluted to (mL):	2000.3	0.06	Flask Uncertainty	

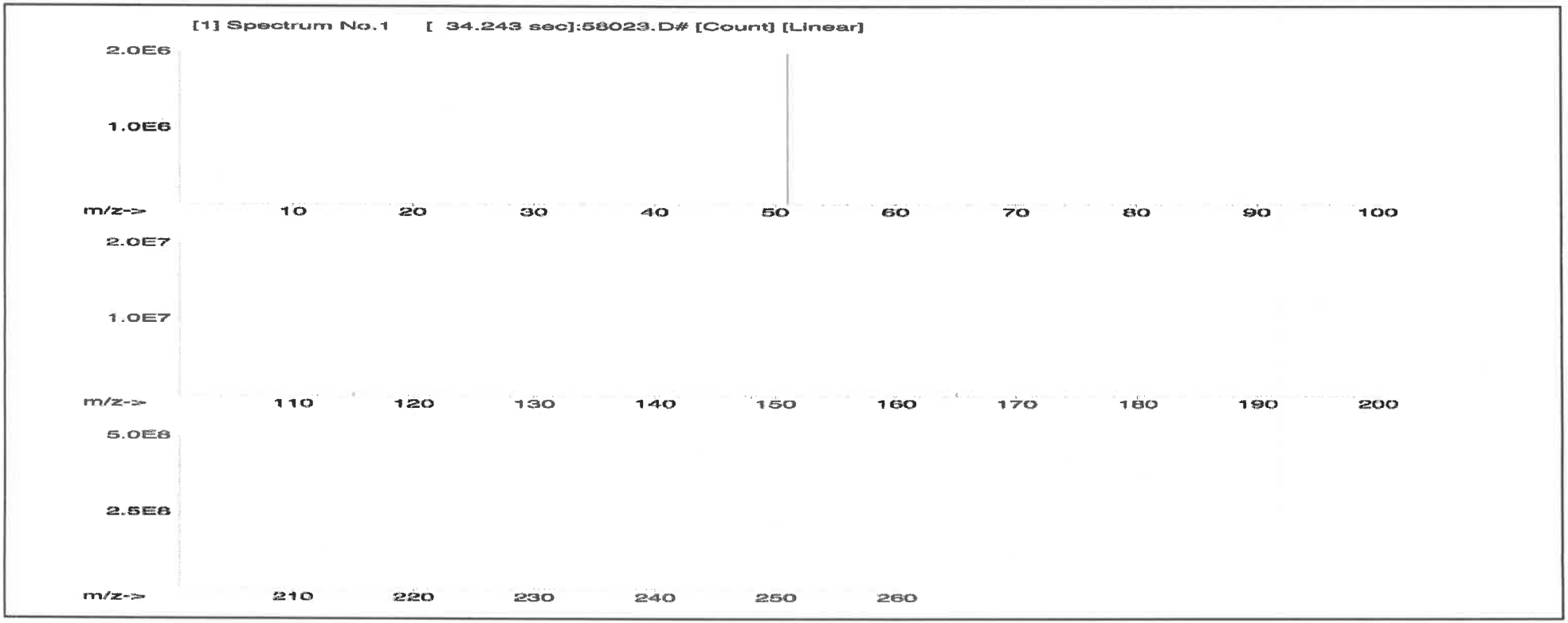
Aleah O'Brady

Formulated By:	Aleah O'Brady	062424

Pedro Rentas

Reviewed By:	Pedro L. Rentas	062424

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Ammonium metavanadate (V)	58123	021224	0.1000	200.0	0.084	1000	10000.3	**1000.0**	**2.2**	7803-55-6	0.05 mg/m3	orl-rat 58.1mg/kg	3165



723

Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	T
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

Alliance TECHNICAL GROUP

Water Metals Preparation Sheet

PB165103

SOP ID : M200.8-Trace Elements-22, MSFAM01.1-Metals ICPMS-2

SDG No : E29T2

Matrix : WATER

Pippete ID: ICP A

Balance ID : N/A

Filter paper ID : N/A

pH Strip ID : M6069

Hood ID : #1

Block ID: 1. HOT BLOCK #1 2. N/A

Start Digest Date: 11/19/2024 **Time :** 10:15 **Temp :** 95 °C

End Digest Date: 11/19/2024 **Time :** 12:30 **Temp :** 95 °C

Digestion tube ID: M5595

Block thermometer ID: MET-DIG. #1

Dig Technician Signature: JGP

Supervisor Signature:

Temp : 1. 95°C 2. N/A

Standared Name	MLS USED	STD REF. # FROM LOG
LCSW	0.50	MP83045
Spike Sol. B	0.50	MP83047
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	1.00	MP83122
1:1 HCL	0.50	MP83105
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

HOT BLOCK #1 Cell # 50: 95 C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
11/19/24 13:00	JGP / Met dig	[illegible]
	Preparation Group	Analysis Group

Alliance TECHNICAL GROUP

Water Metals Preparation Sheet

PB165103

Lab Sample ID	Client Sample ID	pH	Initial Vol (ml)	Final Vol (ml)	Color Before	Color After	Clarity Before	Clarity After	Comment	Prep Pos
P4831-01	E29S4	<2	50	50	Colorless	Colorless	Clear	Clear	N/A	12
P4831-02	E29S4D	<2	50	50	Colorless	Colorless	Clear	Clear	N/A	13
P4831-03	E29S4S	<2	50	50	Colorless	Colorless	Clear	Clear	MP83047	14
P4831-04	E29T2	<2	50	50	Colorless	Colorless	Clear	Clear	N/A	15
P4831-05	E29T4	<2	50	50	Colorless	Colorless	Clear	Clear	N/A	16
P4831-06	E29W0	<2	50	50	Colorless	Colorless	Clear	Clear	N/A	17
P4831-07	E29W4	<2	50	50	Colorless	Colorless	Clear	Clear	N/A	18
P4831-08	E29W1	<2	50	50	Colorless	Colorless	Clear	Clear	N/A	19
P4831-09	E29W5	<2	50	50	Colorless	Colorless	Clear	Clear	N/A	20
P4831-10	E29R6	<2	50	50	Colorless	Colorless	Clear	Clear	N/A	21
P4831-11	E29S0	<2	50	50	Colorless	Colorless	Clear	Clear	N/A	22
P4831-12	E29S2	<2	50	50	Colorless	Colorless	Clear	Clear	N/A	23
P4831-13	E29S6	<2	50	50	Colorless	Colorless	Clear	Clear	N/A	24
P4831-14	E29W6	<2	50	50	Colorless	Colorless	Clear	Clear	N/A	25
P4831-15	E29W2	<2	50	50	Colorless	Colorless	Clear	Clear	N/A	26
PB165103BL	PBW103	<2	50	50	Colorless	Colorless	Clear	Clear	N/A	27
PB165103BS	LCS103	<2	50	50	Colorless	Colorless	Clear	Clear	MP83045	28

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

Instrument ID: P7

Daily Analysis Runlog For Sequence/QCBatch ID # LB133538

Review By	Sarabjit Jaswal	Review On	11/21/2024 4:24:09 AM
Supervise By	Mohan Bera	Supervise On	11/21/2024 4:25:15 AM

STD. NAME	STD REF.#
ICAL Standard	MP83014,MP83039,MP83038,MP83036,MP83034,MP83035,MP83033,MP83032,MP83016
ICV Standard	MP83041
CCV Standard	MP83042
ICSA Standard	MP83043,MP83044
CRI Standard	
LCS Standard	MP83046
Chk Standard	MP83050,MP83049

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	TUNE	TUNE002	TUNE	11/20/24 08:18		Jaswal	OK
2	S00	S0	CAL1	11/20/24 09:21		Jaswal	OK
3	S02	S02	CAL3	11/20/24 09:28		Jaswal	OK
4	S03	S03	CAL4	11/20/24 09:31		Jaswal	OK
5	S04	S04	CAL5	11/20/24 09:34		Jaswal	OK
6	S05	S05	CAL6	11/20/24 09:37		Jaswal	OK
7	S06	S06	CAL7	11/20/24 09:40		Jaswal	OK
8	S07	S07	CAL8	11/20/24 09:42		Jaswal	OK
9	S08	S08	CAL9	11/20/24 09:45		Jaswal	OK
10	ICV002	ICV002	ICV	11/20/24 10:03	Inst. paused for calibration review	Jaswal	OK
11	ICB002	ICB002	ICB	11/20/24 10:07		Jaswal	OK
12	ICSA002	ICSA002	ICSA	11/20/24 10:11		Jaswal	OK
13	ICSAB002	ICSAB002	ICSAB	11/20/24 10:14		Jaswal	OK
14	CCV004	CCV004	CCV	11/20/24 10:17		Jaswal	OK
15	CCB004	CCB004	CCB	11/20/24 10:19		Jaswal	OK
16	PB165018BL	PBW018	MB	11/20/24 10:23		Jaswal	OK
17	PB165018BS	LCS018	LCS	11/20/24 10:26		Jaswal	OK
18	PB165103BL	PBW103	MB	11/20/24 10:29		Jaswal	OK

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STD. NAME	STD REF.#
ICAL Standard	MP83014,MP83039,MP83038,MP83036,MP83034,MP83035,MP83033,MP83032,MP83016
ICV Standard	MP83041
CCV Standard	MP83042
ICSA Standard	MP83043,MP83044
CRI Standard	
LCS Standard	MP83046
Chk Standard	MP83050,MP83049

19	PB165103BS	LCS103	LCS	11/20/24 10:32		Jaswal	OK
20	PB165104BL	PBW104	MB	11/20/24 10:36		Jaswal	OK
21	PB165104BS	LCS104	LCS	11/20/24 10:39		Jaswal	OK
22	PB165107BL	PBS107	MB	11/20/24 10:42		Jaswal	OK
23	PB165107BS	LCS107	LCS	11/20/24 10:45		Jaswal	OK
24	P4728-16	MBH9G9	SAM	11/20/24 10:49		Jaswal	OK
25	P4750-22	MBH9H0	SAM	11/20/24 10:52		Jaswal	OK
26	P4806-04A	MH2GT9A	PS	11/20/24 10:55	PS For Mn, 0.006ml - M5698 - 10ml sample.	Jaswal	OK
27	P4831-01	E29S4	SAM	11/20/24 10:58		Jaswal	OK
28	P4831-02	E29S4D	DUP	11/20/24 11:01		Jaswal	OK
29	P4831-01L	E29S4L	SD	11/20/24 11:04		Jaswal	OK
30	P4831-04	E29T2	SAM	11/20/24 11:10		Jaswal	OK
31	P4831-05	E29T4	SAM	11/20/24 11:14		Jaswal	OK
32	P4831-06	E29W0	SAM	11/20/24 11:17		Jaswal	OK
33	P4831-07	E29W4	SAM	11/20/24 11:20		Jaswal	OK
34	P4831-08	E29W1	SAM	11/20/24 11:23		Jaswal	OK
35	P4831-09	E29W5	SAM	11/20/24 11:26		Jaswal	OK
36	P4831-10	E29R6	SAM	11/20/24 11:30		Jaswal	OK
37	P4831-11	E29S0	SAM	11/20/24 11:33		Jaswal	OK

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STD. NAME	STD REF.#
ICAL Standard	MP83014,MP83039,MP83038,MP83036,MP83034,MP83035,MP83033,MP83032,MP83016
ICV Standard	MP83041
CCV Standard	MP83042
ICSA Standard	MP83043,MP83044
CRI Standard	
LCS Standard	MP83046
Chk Standard	MP83050,MP83049

38	P4831-12	E29S2	SAM	11/20/24 11:36		Jaswal	OK
39	P4831-13	E29S6	SAM	11/20/24 11:39		Jaswal	OK
40	CCV005	CCV005	CCV	11/20/24 11:42		Jaswal	OK
41	CCB005	CCB005	CCB	11/20/24 11:45		Jaswal	OK
42	P4831-14	E29W6	SAM	11/20/24 12:02		Jaswal	OK
43	P4831-15	E29W2	SAM	11/20/24 12:05		Jaswal	OK
44	P4832-01	E29S5	SAM	11/20/24 12:09		Jaswal	OK
45	P4832-02	E29S5D	DUP	11/20/24 12:12		Jaswal	OK
46	P4832-01L	E29S5L	SD	11/20/24 12:15		Jaswal	OK
47	P4832-03	E29S5S	MS	11/20/24 12:18		Jaswal	OK
48	P4832-04	E29T3	SAM	11/20/24 12:21		Jaswal	OK
49	P4832-05	E29T5	SAM	11/20/24 12:24		Jaswal	OK
50	P4832-06	E29R7	SAM	11/20/24 12:28		Jaswal	OK
51	P4832-07	E29S1	SAM	11/20/24 12:31		Jaswal	OK
52	P4832-08	E29S3	SAM	11/20/24 12:34		Jaswal	OK
53	P4832-09	E29S7	SAM	11/20/24 12:37		Jaswal	OK
54	P4879-01	E29X1	SAM	11/20/24 12:40		Jaswal	OK
55	P4879-02	E29X2	SAM	11/20/24 12:43		Jaswal	OK
56	P4879-03	E29X3	SAM	11/20/24 12:47		Jaswal	OK
57	P4879-04	E29X4	SAM	11/20/24 12:50		Jaswal	OK

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ICV Standard	MP83041
CCV Standard	MP83042
ICSA Standard	MP83043,MP83044
CRI Standard	
LCS Standard	MP83046
Chk Standard	MP83050,MP83049

58	P4879-05	E29X5	SAM	11/20/24 12:53		Jaswal	OK
59	P4879-06	E29X5D	DUP	11/20/24 12:56		Jaswal	OK
60	P4879-05L	E29X5L	SD	11/20/24 12:59		Jaswal	OK
61	P4879-07	E29X5S	MS	11/20/24 13:02		Jaswal	OK
62	P4879-08	E29X6	SAM	11/20/24 13:05		Jaswal	OK
63	P4879-09	E29X7	SAM	11/20/24 13:09		Jaswal	OK
64	P4879-10	E29X8	SAM	11/20/24 13:12		Jaswal	OK
65	P4879-11	E29X9	SAM	11/20/24 13:15		Jaswal	OK
66	P4879-12	E29Y0	SAM	11/20/24 13:18		Jaswal	OK
67	P4879-13	E29Y1	SAM	11/20/24 13:21		Jaswal	OK
68	P4879-14	E29Y2	SAM	11/20/24 13:24		Jaswal	OK
69	CCV006	CCV006	CCV	11/20/24 13:28		Jaswal	OK
70	CCB006	CCB006	CCB	11/20/24 13:30		Jaswal	OK
71	P4879-15	E29Y3	SAM	11/20/24 13:34		Jaswal	OK
72	P4879-16	E29Y4	SAM	11/20/24 13:38		Jaswal	OK
73	P4879-17	E29Y5	SAM	11/20/24 13:41		Jaswal	OK
74	P4879-18	E29Y9	SAM	11/20/24 13:44		Jaswal	OK
75	P4879-19	E29Z0	SAM	11/20/24 13:47		Jaswal	OK
76	P4879-20	E29Y6	SAM	11/20/24 13:50		Jaswal	OK
77	P4879-21	E29Y7	SAM	11/20/24 13:53		Jaswal	OK

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Instrument ID: P7

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ICV Standard	MP83041
CCV Standard	MP83042
ICSA Standard	MP83043,MP83044
CRI Standard	
LCS Standard	MP83046
Chk Standard	MP83050,MP83049

78	CCV007	CCV007	CCV	11/20/24 13:58		Jaswal	OK
79	CCB007	CCB007	CCB	11/20/24 14:00		Jaswal	OK
80	P4831-03	E29S4S	MS	11/20/24 14:04		Jaswal	OK
81	CCV008	CCV008	CCV	11/20/24 14:45		Jaswal	OK
82	CCB008	CCB008	CCB	11/20/24 14:48		Jaswal	OK

EPA SAMPLE NO.

E29R6

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51880 MA No. : SDG No.: E29T2

Matrix: Water Lab Sample ID: P4831-10

% Solids: Date Received: 11/14/2024

Analytical Method: Hg

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

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7439-97-6	Mercury	0.20	U	11/26/2024	1441

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

Comments:

EPA SAMPLE NO.

E29S0

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51880 MA No. : SDG No.: E29T2

Matrix: Water Lab Sample ID: P4831-11

% Solids: Date Received: 11/14/2024

Analytical Method: Hg

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

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7439-97-6	Mercury	0.20	U	11/26/2024	1443

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

Comments:

EPA SAMPLE NO.

E29S2

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51880 MA No. : SDG No.: E29T2

Matrix: Water Lab Sample ID: P4831-12

% Solids: Date Received: 11/14/2024

Analytical Method: Hg

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

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7439-97-6	Mercury	0.20	U	11/26/2024	1446

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

Comments:

EPA SAMPLE NO.

E29S4

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51880 MA No. : SDG No.: E29T2

Matrix: Water Lab Sample ID: P4831-01

% Solids: Date Received: 11/13/2024

Analytical Method: Hg

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

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7439-97-6	Mercury	0.20	U	11/26/2024	1421

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

Comments:

EPA SAMPLE NO.

E29S6

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51880 MA No. : SDG No.: E29T2

Matrix: Water Lab Sample ID: P4831-13

% Solids: Date Received: 11/14/2024

Analytical Method: Hg

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

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7439-97-6	Mercury	0.20	U	11/26/2024	1448

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

Comments:

EPA SAMPLE NO.

E29T2

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51880 MA No. : SDG No.: E29T2

Matrix: Water Lab Sample ID: P4831-04

% Solids: Date Received: 11/13/2024

Analytical Method: Hg

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

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7439-97-6	Mercury	0.20	U	11/26/2024	1427

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

Comments:

EPA SAMPLE NO.

E29T4

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51880 MA No. : SDG No.: E29T2

Matrix: Water Lab Sample ID: P4831-05

% Solids: Date Received: 11/13/2024

Analytical Method: Hg

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

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7439-97-6	Mercury	0.20	U	11/26/2024	1430

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

Comments:

EPA SAMPLE NO.

E29W0

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51880 MA No. : SDG No.: E29T2

Matrix: Water Lab Sample ID: P4831-06

% Solids: Date Received: 11/13/2024

Analytical Method: Hg

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

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7439-97-6	Mercury	0.047	J	11/26/2024	1432

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

Comments:

EPA SAMPLE NO.

E29W1

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51880 MA No. : SDG No.: E29T2

Matrix: Water Lab Sample ID: P4831-08

% Solids: Date Received: 11/13/2024

Analytical Method: Hg

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

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7439-97-6	Mercury	0.20	U	11/26/2024	1437

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

Comments:

EPA SAMPLE NO.

E29W2

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51880 MA No. : SDG No.: E29T2

Matrix: Water Lab Sample ID: P4831-15

% Solids: Date Received: 11/14/2024

Analytical Method: Hg

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

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7439-97-6	Mercury	0.20	U	11/26/2024	1452

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

Comments:

EPA SAMPLE NO.

E29W4

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51880 MA No. : SDG No.: E29T2

Matrix: Water Lab Sample ID: P4831-07

% Solids: Date Received: 11/13/2024

Analytical Method: Hg

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

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7439-97-6	Mercury	0.20	U	11/26/2024	1434

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

Comments:

EPA SAMPLE NO.

E29W5

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51880 MA No. : SDG No.: E29T2

Matrix: Water Lab Sample ID: P4831-09

% Solids: Date Received: 11/13/2024

Analytical Method: Hg

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

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7439-97-6	Mercury	0.20	U	11/26/2024	1439

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

Comments:

EPA SAMPLE NO.

E29W6

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51880 MA No. : SDG No.: E29T2

Matrix: Water Lab Sample ID: P4831-14

% Solids: Date Received: 11/14/2024

Analytical Method: Hg

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

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7439-97-6	Mercury	0.20	U	11/26/2024	1450

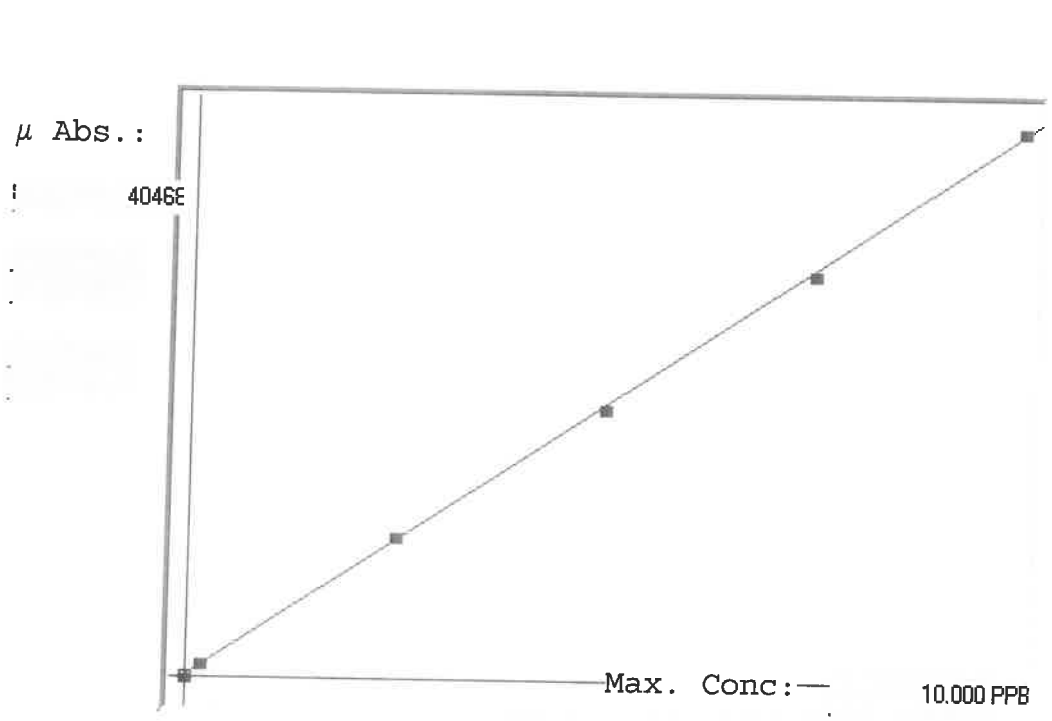
NOTE: Hardness (total) is reported in mg/L

Comments:

Reviewed By:mohan
On:11/27/2024
10:31:16 PM
Inst Id :CV1

LB133633

SFAM01.1 INSTRUMENT ID: CV1



A= 0.0000e+000

B= 2.4956e-004 slope

C= -3.3584e-002 y=mx+c

Rho= 0.9998942

Accept=Accepted

Std ID	Conc.	Calc.	Dev.	Mean	SD or %RSD	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	c/a 1)
0.00	0.000	-0.013	-0.013	83	0.000	83	0				-
0.05	0.050					442	0				10
0.20	0.200	0.220	0.020	1017	0.0 %	1017					2
2.50	2.500	2.560	0.060	10392	0.0 %	10392					-1
5.00	5.000	4.932	-0.068	19899	0.0 %	19899					-1
7.50	7.500	7.435	-0.065	29926	0.0 %	29926					1
10.0	10.000	10.066	0.066	40468	0.0 %	40468					

Reviewed By:mohan
On:11/27/2024
10:31:16 PM
Inst Id :CV1

LB133633

INSTRUMENT ID : CV1

Sample ID	Extended ID	µ Abs.	Conc.		Stnd Conc	Method	Units	Date	Type
0	S0	83	-		0	SFAM01.1	PPB	11/26/2024 13:52	Std
0.2	S01	1017	-		0.2	SFAM01.1	PPB	11/26/2024 13:54	Std
2.5	S02	10392	-		2.5	SFAM01.1	PPB	11/26/2024 13:57	Std
5	S03	19899	-		5	SFAM01.1	PPB	11/26/2024 13:59	Std
7.5	S04	29926	-		7.5	SFAM01.1	PPB	11/26/2024 14:01	Std
10	S05	40468	-		10	SFAM01.1	PPB	11/26/2024 14:04	Std
ICV001	ICV001	17194	4.2574	-		SFAM01.1	PPB	11/26/2024 14:09	SMPL
ICB001	ICB001	-159	-0.0733	-		SFAM01.1	PPB	11/26/2024 14:12	SMPL
CCV055	CCV055	19836	4.9167	-		SFAM01.1	PPB	11/26/2024 14:14	SMPL
CCB055	CCB055	-179	-0.0783	-		SFAM01.1	PPB	11/26/2024 14:16	SMPL
PB165275BL	PBW275	127	-0.0019	-		SFAM01.1	PPB	11/26/2024 14:18	SMPL
P4831-01	E29S4	-80	-0.0535	-		SFAM01.1	PPB	11/26/2024 14:21	SMPL
P4831-02	E29S4D	-48	-0.0456	-		SFAM01.1	PPB	11/26/2024 14:23	SMPL
P4831-03	E29S4S	4354	1.053	-		SFAM01.1	PPB	11/26/2024 14:25	SMPL
P4831-04	E29T2	0	-0.0336	-		SFAM01.1	PPB	11/26/2024 14:27	SMPL
P4831-05	E29T4	2	-0.0331	-		SFAM01.1	PPB	11/26/2024 14:30	SMPL
P4831-06	E29W0	324	0.0473	-		SFAM01.1	PPB	11/26/2024 14:32	SMPL
P4831-07	E29W4	154	0.0048	-		SFAM01.1	PPB	11/26/2024 14:34	SMPL
P4831-08	E29W1	174	0.0098	-		SFAM01.1	PPB	11/26/2024 14:37	SMPL
P4831-09	E29W5	170	0.0088	-		SFAM01.1	PPB	11/26/2024 14:39	SMPL
P4831-10	E29R6	50	-0.0211	-		SFAM01.1	PPB	11/26/2024 14:41	SMPL
P4831-11	E29S0	35	-0.0248	-		SFAM01.1	PPB	11/26/2024 14:43	SMPL
P4831-12	E29S2	65	-0.0174	-		SFAM01.1	PPB	11/26/2024 14:46	SMPL
P4831-13	E29S6	81	-0.0134	-		SFAM01.1	PPB	11/26/2024 14:48	SMPL
P4831-14	E29W6	164	0.0073	-		SFAM01.1	PPB	11/26/2024 14:50	SMPL
P4831-15	E29W2	101	-0.0084	-		SFAM01.1	PPB	11/26/2024 14:52	SMPL
P4832-01	E29S5	143	0.0021	-		SFAM01.1	PPB	11/26/2024 14:55	SMPL
P4832-02	E29S5D	74	-0.0151	-		SFAM01.1	PPB	11/26/2024 14:57	SMPL
P4832-03	E29S5S	5064	1.2302	-		SFAM01.1	PPB	11/26/2024 14:59	SMPL
P4832-04	E29T3	73	-0.0154	-		SFAM01.1	PPB	11/26/2024 15:01	SMPL
CCV056	CCV056	19406	4.8094	-		SFAM01.1	PPB	11/26/2024 15:04	SMPL
CCB056	CCB056	-193	-0.0817	-		SFAM01.1	PPB	11/26/2024 15:06	SMPL
P4832-05	E29T5	252	0.0293	-		SFAM01.1	PPB	11/26/2024 15:08	SMPL
P4832-06	E29R7	161	0.0066	-		SFAM01.1	PPB	11/26/2024 15:10	SMPL
P4832-07	E29S1	407	0.068	-		SFAM01.1	PPB	11/26/2024 15:13	SMPL
P4832-08	E29S3	238	0.0258	-		SFAM01.1	PPB	11/26/2024 15:15	SMPL
P4832-09	E29S7	257	0.0306	-		SFAM01.1	PPB	11/26/2024 15:17	SMPL
PB165276BL	PBW276	108	-0.0066	-		SFAM01.1	PPB	11/26/2024 15:20	SMPL
P4877-01	E29Z1	175	0.0101	-		SFAM01.1	PPB	11/26/2024 15:22	SMPL
P4877-02	E29Z3	41	-0.0234	-		SFAM01.1	PPB	11/26/2024 15:24	SMPL
P4877-03	E29Z5	65	-0.0174	-		SFAM01.1	PPB	11/26/2024 15:26	SMPL
P4877-04	E29Z7	343	0.052	-		SFAM01.1	PPB	11/26/2024 15:29	SMPL
P4877-05	E2A13	247	0.0281	-		SFAM01.1	PPB	11/26/2024 15:31	SMPL
P4877-06	E2A19	311	0.044	-		SFAM01.1	PPB	11/26/2024 15:33	SMPL
P4877-07	E2A22	189	0.0136	-		SFAM01.1	PPB	11/26/2024 15:35	SMPL
P4877-08	E2A23	250	0.0288	-		SFAM01.1	PPB	11/26/2024 15:38	SMPL

Reviewed By:mohan
On:11/27/2024
10:31:16 PM
Inst Id :CV1

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INSTRUMENT ID : CV1

P4877-09	E29Z9	253	0.0296	-	SFAM01.1	PPB	11/26/2024 15:40	SMPL
P4877-10	E2A01	323	0.047	-	SFAM01.1	PPB	11/26/2024 15:42	SMPL
P4877-11	E2A01D	131	-0.0009	-	SFAM01.1	PPB	11/26/2024 15:44	SMPL
P4877-12	E2A01S	4581	1.1097	-	SFAM01.1	PPB	11/26/2024 15:47	SMPL
P4877-13	E2A03	224	0.0223	-	SFAM01.1	PPB	11/26/2024 15:49	SMPL
P4877-14	E2A05	239	0.0261	-	SFAM01.1	PPB	11/26/2024 15:51	SMPL
CCV057	CCV057	18931	4.6908	-	SFAM01.1	PPB	11/26/2024 15:54	SMPL
CCB057	CCB057	-116	-0.0625	-	SFAM01.1	PPB	11/26/2024 15:56	SMPL
P4877-15	E2A07	203	0.0171	-	SFAM01.1	PPB	11/26/2024 15:58	SMPL
P4877-16	E2A09	180	0.0113	-	SFAM01.1	PPB	11/26/2024 16:00	SMPL
P4877-17	E2A20	159	0.0061	-	SFAM01.1	PPB	11/26/2024 16:03	SMPL
P4877-18	E2A24	127	-0.0019	-	SFAM01.1	PPB	11/26/2024 16:05	SMPL
P4877-19	E29S9	144	0.0024	-	SFAM01.1	PPB	11/26/2024 16:07	SMPL
PB165277BL	PBW277	340	0.0513	-	SFAM01.1	PPB	11/26/2024 16:09	SMPL
P4878-01	E29Z2	366	0.0578	-	SFAM01.1	PPB	11/26/2024 16:12	SMPL
P4878-02	E29Z4	228	0.0233	-	SFAM01.1	PPB	11/26/2024 16:14	SMPL
P4878-03	E29Z6	206	0.0178	-	SFAM01.1	PPB	11/26/2024 16:16	SMPL
P4878-04	E29Z8	173	0.0096	-	SFAM01.1	PPB	11/26/2024 16:18	SMPL
P4878-05	E2A14	179	0.0111	-	SFAM01.1	PPB	11/26/2024 16:21	SMPL
P4878-06	E2A00	186	0.0128	-	SFAM01.1	PPB	11/26/2024 16:23	SMPL
P4878-07	E2A02	241	0.0266	-	SFAM01.1	PPB	11/26/2024 16:25	SMPL
P4878-08	E2A02D	302	0.0418	-	SFAM01.1	PPB	11/26/2024 16:28	SMPL
P4878-09	E2A02S	5155	1.2529	-	SFAM01.1	PPB	11/26/2024 16:30	SMPL
P4878-10	E2A04	69	-0.0164	-	SFAM01.1	PPB	11/26/2024 16:32	SMPL
P4878-11	E2A06	176	0.0103	-	SFAM01.1	PPB	11/26/2024 16:34	SMPL
P4878-12	E2A08	272	0.0343	-	SFAM01.1	PPB	11/26/2024 16:37	SMPL
P4878-13	E2A10	330	0.0488	-	SFAM01.1	PPB	11/26/2024 16:39	SMPL
CCV058	CCV058	19116	4.737	-	SFAM01.1	PPB	11/26/2024 16:41	SMPL
CCB058	CCB058	-114	-0.062	-	SFAM01.1	PPB	11/26/2024 16:43	SMPL

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Prep Standard - Chemical Standard Summary

Order ID : P4831

Test : Mercury

Prepbatch ID : PB165275,

Sequence ID/Qc Batch ID: LB133633,

Standard ID :
MP83207,MP83208,MP83209,MP83210,MP83377,MP83378,MP83379,MP83380,MP83381,MP83382,MP83383,MP83384,MP83385,MP83386,MP83387,MP83391,

Chemical ID :
M4371,M4465,M4916,M5062,M5673,M5882,M5884,M5953,M6119,M6121,M6124,W3112,

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3965	2:1 H2SO4 : HNO3	MP83207	11/11/2024	05/09/2025	Mohan Bera	None	None	Sarabjit Jaswal 11/11/2024

FROM 1600.00000ml of M5673 + 800.00000ml of M6119 = Final Quantity: 3200.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
65	POTASSIUM PERMANGANATE SOLUTION 5 %	MP83208	11/11/2024	05/11/2025	Mohan Bera	METALS_SCALE_3 (M SC-3)	None	Sarabjit Jaswal 11/11/2024

FROM 100.00000gram of M4916 + 2000.00000ml of W3112 = Final Quantity: 2000.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
66	POTASSIUM PERSULFATE SOLUTION 5 %	MP83209	11/11/2024	05/11/2025	Mohan Bera	METALS_SCALE_3 (M SC-3)	None	Sarabjit Jaswal 11/11/2024

FROM 100.00000ml of M4465 + 2000.00000ml of W3112 = Final Quantity: 2000.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
67	SODIUM CHLORIDE - HYDROXYL- CHLORIDE SOLUTION	MP83210	11/11/2024	05/11/2025	Mohan Bera	METALS_SCALE_3 (M SC-3)	None	Sarabjit Jaswal 11/11/2024

FROM 2000.00000ml of W3112 + 240.00000gram of M4371 + 240.00000gram of M5884 = 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
871	MERCURY INTERMEDIATE B 250PPB WORKING STD.	MP83377	11/26/2024	11/27/2024	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 11/27/2024

FROM 1.00000ml of M6124 + 2.50000ml of M5062 + 96.50000ml of W3112 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1340	Hg 0.00 PPB STD	MP83378	11/26/2024	11/27/2024	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 11/27/2024

FROM 2.50000ml of M6124 + 247.50000ml of W3112 = Final Quantity: 250.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1341	Hg 0.2 PPB STD	MP83379	11/26/2024	11/27/2024	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 11/27/2024

FROM 2.50000ml of M6124 + 247.30000ml of W3112 + 0.20000ml of MP83377 = Final Quantity: 250.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1342	Hg 2.5 PPB STD	MP83380	11/26/2024	11/27/2024	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 11/27/2024

FROM 2.50000ml of M6124 + 245.00000ml of W3112 + 2.50000ml of MP83377 = 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
1343	Hg 5.0 PPB STD	MP83381	11/26/2024	11/27/2024	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 11/27/2024

FROM 2.50000ml of M6124 + 242.50000ml of W3112 + 5.00000ml of MP83377 = Final Quantity: 250.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1344	Hg 7.5 PPB STD	MP83382	11/26/2024	11/27/2024	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 11/27/2024

FROM 2.50000ml of M6124 + 240.00000ml of W3112 + 7.50000ml of MP83377 = 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
1345	Hg 10.0 PPB STD	MP83383	11/26/2024	11/27/2024	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 11/27/2024

FROM 2.50000ml of M6124 + 237.50000ml of W3112 + 10.00000ml of MP83377 = Final Quantity: 250.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1346	Hg ICV SOLUTION	MP83384	11/26/2024	11/27/2024	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 11/27/2024

FROM 2.50000ml of M5953 + 2.50000ml of M6124 + 245.00000ml of W3112 = Final Quantity: 250.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1351	ICB (Hg 0.00 PPB SOLUTION)	MP83385	11/26/2024	11/27/2024	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 11/27/2024

FROM 2.50000ml of M6124 + 247.50000ml of W3112 = Final Quantity: 250.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1358	CCV (Hg 5.0 PPB SOLUTION)	MP83386	11/26/2024	11/27/2024	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 11/27/2024

FROM 485.00000ml of W3112 + 5.00000ml of M6124 + 10.00000ml of MP83377 = 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
1352	CCB (Hg 0.00 PPB SOLUTION)	MP83387	11/26/2024	11/27/2024	Mohan Bera	None	METALS_PIPETTE_5 (HG A)	Sarabjit Jaswal 11/27/2024

FROM 495.00000ml of W3112 + 5.00000ml of M6124 = Final Quantity: 500.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
68	STANNOUS CHLORIDE SOLUTION	MP83391	11/26/2024	11/27/2024	Mohan Bera	METALS_SCALE_3 (M SC-3)	None	Sarabjit Jaswal 11/27/2024

FROM 450.00000ml of W3112 + 50.00000gram of M5882 + 50.00000ml of M6121 = Final Quantity: 500.000 ml

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-2196-01 / Hydroxylamine Hydrochloride, Crystal (cs/4x500g)	0000215387	06/25/2025	07/01/2019 / RICHARD	06/07/2019 / RICHARD	M4371

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-3238-05 / Potassium Persulfate (2.5kg)	0000234156	08/06/2025	07/23/2019 / mohan	07/25/2019 / manojkumar	M4465

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-3227-05 / Potassium Permanganate (2.5kg)	210800	03/31/2026	11/30/2022 / mohan	07/28/2021 / mohan	M4916

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	MSHG-10PPM / MERCURY HCl 125mL 10ug/mL	S2-HG709270	09/22/2026	05/28/2022 / mohan	01/27/2022 / mohan	M5062

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9673-33 / Sulfuric Acid, Instra-Analyzed (cs/6c2.5L)	23D2462010	03/20/2028	09/21/2023 / mohan	09/05/2023 / mohan	M5673

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-3980-01 / Stannous Chloride (cs/4x500g)	232820	08/31/2028	04/30/2024 / mohan	04/25/2024 / mohan	M5882

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-3624-05 / Sodium Chloride, Crystal (cs/4x2.5kg)	0000281938	07/06/2026	04/30/2024 / mohan	04/25/2024 / mohan	M5884

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
EPA	ICV-5 / ICV (HG) STOCK SOLN	ICV5-0415	01/01/2025	07/01/2024 / mohan	03/30/2023 / mohan	M5953

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	05/09/2025	11/09/2024 / Janvi	10/09/2024 / Janvi	M6119

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	05/22/2025	11/22/2024 / Janvi	10/22/2024 / Janvi	M6124

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

ThermoFisher SCIENTIFIC

M5882 M3

Certificate of Analysis

1 Reagent Lane
Fair Lawn, NJ 07410
201.796.7100 tel
201.796.1329 fax

Thermo Fisher Scientific's Quality System has been found to conform to Quality Management System Standard ISO9001:2015 by SAI Global Certificate Number CERT – 0120633

This is to certify that units of the lot number below were tested and found to comply with the specifications of the grade listed. Certain data have been supplied by third parties. Thermo Fisher Scientific expressly disclaims all warranties, expressed or implied, including the implied warranties of merchantability and fitness for a particular purpose. Products are for research use or further manufacturing. Not for direct administration to humans or animals. It is the responsibility of the final formulator and end user to determine suitability based upon the intended use of the end product. Products are tested to meet the analytical requirements of the noted grade. The following information is the actual analytical results obtained.

Catalog Number	T142	Quality Test / Release Date	08/17/2023
Lot Number	232820		
Description	STANNOUS CHLORIDE, DIHYDRATE CERTIFIED ACS (Suitable for Mercury Determination)		
Country of Origin	United States	Suggested Retest Date	Aug/2028
Chemical Origin	Inorganic-non animal		
BSE/TSE Comment	No animal products are used as starting raw material ingredients, or used in processing, including lubricants, processing aids, or any other material that might migrate to the finished product.		

N/A			
Result Name	Units	Specifications	Test Value
APPEARANCE		REPORT	Clear crystals
ASSAY	%	Inclusive Between 98 - 103	100.65
CALCIUM	%	<= 0.005	0.0017
IDENTIFICATION	PASS/FAIL	= PASS TEST	PASS TEST
IRON (Fe)	%	<= 0.003	0.0011
LEAD (Pb)	%	<= 0.01	0.0006
MERCURY (Hg)	ppm	<= 0.05	<0.05
POTASSIUM (K)	%	<= 0.005	0.0001
SODIUM (Na)	%	<= 0.01	<0.01
SOLUBILITY IN HCL	PASS/FAIL	= PASS TEST	PASS TEST
SULFATE (SO4)	PASS/FAIL	= P.T. (ABOUT 0.003%)	P.T. (ABOUT 0.003%)

Harout Sahagian - Quality Control Supervisor - Fair Lawn

Note: The data listed is valid for all package sizes of this lot of this product, expressed as an extension of this catalog number listed above.
If there are any questions with this certificate, please call at (800) 227-6701.
*Based on suggested storage condition.

M4371

Hydroxylamine Hydrochloride, Crystal
BAKER ANALYZED® A.C.S. Reagent
Suitable for Mercury Determination
(hydroxylammonium chloride)

Rec – 06.07.19

J.T.Baker® | avantor™

Material No.: 2196-01
Batch No.: 0000215387
Manufactured Date: 2018/06/27
Retest Date: 2025/06/25
Revision No: 1

Certificate of Analysis

Meets ACS Reagent Chemical Requirements,

Test	Specification	Result
Assay ($NH_2OH \cdot HCl$) (by $KMnO_4$ titrn)	>= 96.0 %	99.1
Clarity of Alcohol Solution	Passes Test	PT
Residue after Ignition	<= 0.050 %	0.017
Titrable Free Acid (meq/g)	<= 0.25	0.19
Ammonium (NH_4)	Passes Test	PT
Sulfur Compounds (as SO_4)	<= 0.005 %	< 0.003
Trace Impurities - ACS - Heavy Metals (as Pb)	<= 5 ppm	4
Trace Impurities - Iron (Fe)	<= 5 ppm	< 3
Trace Impurities - Mercury (Hg)	<= 0.050 ppm	< 0.005

For Laboratory, Research or Manufacturing Use

Country of Origin: CN
Packaging Site: Paris Mfg Ctr & DC

ISO
Phillipsburg, NJ 9001:2015, FSSC22000
Paris, KY 9001:2008
Mexico City, Mexico 9001:2008
Gliwice, Poland 9001:2015, 13485:2012
Selangor, Malaysia 9001:2008
Dehradun, India, 9001:2008, 14001:2004, 13485:2003
Mumbai, India, 9001:2015, 17025:2005
Panoli, India 9001:2015

James Ethier
Jamie Ethier
Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone: 610.386.1700

759

ThermoFisher SCIENTIFIC

M4913-16

MB

Certificate of Analysis

1 Reagent Lane
Fair Lawn, NJ 07410
201.796.7100 tel
201.796.1329 fax

Thermo Fisher Scientific's Quality System has been found to conform to Quality Management System Standard ISO9001:2015 by SAI Global Certificate Number CERT – 0120632

This is to certify that units of the lot number below were tested and found to comply with the specifications of the grade listed. Certain data have been supplied by third parties. Thermo Fisher Scientific expressly disclaims all warranties, expressed or implied, including the implied warranties of merchantability and fitness for a particular purpose. Products are for research use or further manufacturing. Not for direct administration to humans or animals. It is the responsibility of the final formulator and end user to determine suitability based upon the intended use of the end product. Products are tested to meet the analytical requirements of the noted grade. The following information is the actual analytical results obtained.

Catalog Number	P279	Quality Test / Release Date	01/12/2021
Lot Number	210306		
Description	POTASSIUM PERMANGANATE, A.C.S.		
Country of Origin	United States	Suggested Retest Date	Jan/2026

N/A			
Result Name	Units	Specifications	Test Value
APPEARANCE		REPORT	Dark purple to purple green crystals
ASSAY	%	>= 99	99.3
CHLORIDE & CHLORATE	%	<= 0.005	<0.005
IDENTIFICATION	PASS/FAIL	= PASS TEST	pass test
INSOLUBLE MATTER	%	<= 0.2	<0.2
MERCURY (Hg)	ppm	<= 0.05	<0.004
SULFATE (SO4)	%	<= 0.02	<0.02

Julian Burton

Julian Burton - Quality Control Manager – Fair Lawn

Note: The data listed is valid for all package sizes of this lot of this product, expressed as an extension of this catalog number listed above.
If there are any questions with this certificate, please call at (800) 227-6701.
*Based on suggested storage condition.

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

M5062
M5063
M3

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01 ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Mass Spec Solution
Catalog Number:	MSHG-10PPM
Lot Number:	S2-HG709270
Matrix:	10% (v/v) HCl
Value / Analyte(s):	10 µg/mL ea: Mercury
Starting Material:	Hg metal
Starting Material Lot#:	1959
Starting Material Purity:	99.9994%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10.001 ± 0.053 µg/mL

Density: 1.020 g/mL (measured at 20 ± 4 °C)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
Hg	ICP Assay	3133	160921
Hg	EDTA	928	928
Hg	Calculated		See Sec. 4.2

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$$X_{CRM/RM} = \Sigma(w_i)(X_i)$$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance.

$$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\ (u_{char\ i})^2)]^{1/2}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$$X_{CRM/RM} = (X_a)\,(u_{char\ a})$$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

O	Ag		0.000011	M	Eu	<	0.000201	O	Na		0.000004	M	Se	<	0.015915	O	Zn	<	0.001510
O	Al		0.000001	O	Fe		0.000001	M	Nb	<	0.000201	O	Si		0.000005	M	Zr	<	0.000201
M	As	<	0.000402	M	Ga	<	0.000201	M	Nd	<	0.000201	M	Sm	<	0.000201				
M	Au	<	0.003631	M	Gd	<	0.000201	M	Ni	<	0.000402	M	Sn	<	0.001007				
M	B	<	0.001208	M	Ge	<	0.000201	M	Os	<	0.000605	M	Sr	<	0.000201				
M	Ba	<	0.000201	M	Hf	<	0.000201	O	P	<	0.032370	M	Ta	<	0.000201				
M	Be	<	0.000201	s	Hg	<		M	Pb	<	0.000201	M	Tb	<	0.000201				
M	Bi	<	0.000201	M	Ho	<	0.000201	M	Pd	<	0.000403	M	Te	<	0.002216				
O	Ca		0.000007	M	In	<	0.000201	M	Pr	<	0.000201	M	Th	<	0.000201				
M	Cd	<	0.000201	M	Ir	<	0.000201	M	Pt	<	0.000402	M	Ti	<	0.000402				
M	Ce	<	0.000201	O	K		0.000020	M	Rb	<	0.000201	O	Tl	<	0.016508				
M	Co	<	0.000201	M	La	<	0.000201	M	Re	<	0.000201	M	Tm	<	0.000201				
O	Cr	<	0.003021	O	Li	<	0.000107	M	Rh	<	0.000201	M	U	<	0.008058				
M	Cs	<	0.001208	M	Lu	<	0.000201	M	Ru	<	0.000201	M	V	<	0.000201				
M	Cu	<	0.000402	O	Mg		0.000001	O	S	<	0.053950	M	W	<	0.000604				
M	Dy	<	0.000201	M	Mn	<	0.000604	M	Sb	<	0.001208	M	Y	<	0.000201				
M	Er	<	0.000201	M	Mo		0.000009	M	Sc	<	0.000201	M	Yb	<	0.000201				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 200.59 +2 4 Hg(OH)(aq) 1+

Chemical Compatibility - Stable in HNO_3. Avoid basic media forming insoluble carbonate. The sulfide, basic carbonate, oxalate, phosphate, arsenite, arsenate and iodide are insoluble in water.

Stability - 2-100 ppb levels not stable in 1% HNO_3 / LDPE container, stable in 10% HNO_3 packaged in borosilicate glass. 1-100 ppm levels stable in 7% HNO_3 packaged in borosilicate glass. 1000-10,000 ppm solutions are chemically stable for years in 5-10% HNO_3 / LDPE container.

Hg Containing Samples (Preparation and Solution) - Metal (soluble in HNO_3); Oxide (Soluble in HNO_3); Ores and Organic based (The literature has more references to the preparation of Hg containing samples than any other element. Please consult the literature for your specific sample type, since such preparations are prone to error. Or e-mail our technical staff and we will contact you to discuss your particular sample preparation questions in further detail.).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 202 amu	9 ppt	n/a	186W16O
ICP-OES 184.950 nm	0.03 / 0.005 µg/mL	1	
ICP-OES 194.227 nm	0.03 / 0.005 µg/mL	1	V
ICP-OES 253.652 nm	0.1 / 0.03 µg/mL	1	Ta, Co, Th ,Rh , Fe, U

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

September 22, 2021

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- September 22, 2026

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Prepared By:

Uyen Truong
Supervisor, Product Documentation



Certificate Approved By:

Michael Booth
Director, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director



Sulfuric Acid
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis
Low Selenium

9673- 33

avantor™ | J.T.Baker®

Material No.: 9673-33
Batch No.: 23D2462010
Manufactured Date: 2023-03-22
Retest Date: 2028-03-20
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
ACS – Assay (H_2SO_4)	95.0 – 98.0 %	96.1 %
Appearance	Passes Test	Passes Test
ACS – Color (APHA)	≤ 10	5
ACS – Residue after Ignition	≤ 3 ppm	< 1 ppm
ACS – Substances Reducing Permanganate (as SO2)	≤ 2 ppm	< 2 ppm
Ammonium (NH_4)	≤ 1 ppm	1 ppm
Chloride (Cl)	≤ 0.1 ppm	< 0.1 ppm
Nitrate (NO_3)	≤ 0.2 ppm	< 0.1 ppm
Phosphate (PO_4)	≤ 0.5 ppm	< 0.1 ppm
Trace Impurities – Aluminum (Al)	≤ 30.0 ppb	< 5.0 ppb
Arsenic and Antimony (as As)	≤ 4.0 ppb	< 2.0 ppb
Trace Impurities – Boron (B)	≤ 10.0 ppb	8.5 ppb
Trace Impurities – Cadmium (Cd)	≤ 2.0 ppb	< 0.3 ppb
Trace Impurities – Chromium (Cr)	≤ 6.0 ppb	< 0.4 ppb
Trace Impurities – Cobalt (Co)	≤ 0.5 ppb	< 0.3 ppb
Trace Impurities – Copper (Cu)	≤ 1.0 ppb	< 0.1 ppb
Trace Impurities – Gold (Au)	≤ 10.0 ppb	0.5 ppb
Heavy Metals (as Pb)	≤ 500.0 ppb	< 100.0 ppb
Trace Impurities – Iron (Fe)	≤ 50.0 ppb	1.3 ppb
Trace Impurities – Lead (Pb)	≤ 0.5 ppb	< 0.5 ppb
Trace Impurities – Magnesium (Mg)	≤ 7.0 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 – Nickel (Ni)	≤ 2.0 ppb	0.3 ppb
Trace Impurities – Potassium (K)	≤ 500.0 ppb	< 2.0 ppb
Trace Impurities – Selenium (Se)	≤ 50.0 ppb	< 0.1 ppb
Trace Impurities – Silicon (Si)	≤ 100.0 ppb	31.5 ppb
Trace Impurities – Silver (Ag)	≤ 1.0 ppb	< 0.3 ppb

>>> Continued on page 2 >>>

Sulfuric Acid
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis
Low Selenium

avantor™ | J.T.Baker®

Material No.: 9673-33
Batch No.: 23D2462010

Test	Specification	Result
Trace Impurities – Sodium (Na)	≤ 500.0 ppb	5.4 ppb
Trace Impurities – Strontium (Sr)	≤ 5.0 ppb	< 0.2 ppb
Trace Impurities – Tin (Sn)	≤ 5.0 ppb	< 0.8 ppb
Trace Impurities – Zinc (Zn)	≤ 5.0 ppb	0.4 ppb

For Laboratory,Research,or Manufacturing Use

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

James T Ethier

Jamie Ethier
Vice President Global Quality

Sodium Chloride, Crystal
BAKER ANALYZED® A.C.S. Reagent

MF884
MB

avantor™ | J.T.Baker®

Material No.: 3624-01
Batch No.: 0000281938
Manufactured Date: 2021-06-07
Retest Date: 2026-06-07
Revision No.: 1

Certificate of Analysis

Test	Specification	Result
Assay (NaCl) (by Ag titrn)	≥ 99.0 %	100.0 %
pH of 5% Solution at 25°C	5.0 - 9.0	6.3
Insoluble Matter	≤ 0.005 %	0.003 %
Iodide (I)	≤ 0.002 %	< 0.002 %
Bromide (Br)	≤ 0.01 %	< 0.01 %
Chlorate and Nitrate (as NO_3)	≤ 0.003 %	< 0.001 %
ACS - Phosphate (PO_4)	≤ 5 ppm	< 5 ppm
Sulfate (SO_4)	≤ 0.004 %	< 0.004 %
Barium (Ba)	Passes Test	Passes Test
ACS - Heavy Metals (as Pb)	≤ 5 ppm	< 5 ppm
Iron (Fe)	≤ 2 ppm	< 1 ppm
Calcium (Ca)	≤ 0.002 %	< 0.001 %
Magnesium (Mg)	≤ 0.001 %	< 0.001 %
Potassium (K)	≤ 0.005 %	0.001 %

For Laboratory,Research,or Manufacturing Use
Meets Reagent Specifications for testing USP/NF monographs
Country of Origin: USA
Packaging Site: Paris Mfg Ctr & DC

James T Ethier
Jamie Ethier
Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
100 Mansford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone 610.386.1700

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.

MSS28 - 37
MSS53
3/30/23

Contains Metals in Dilute Acidic or Cyanide in Basic Aqueous Solutions
HAZARDOUS MATERIAL

Safety Data Sheets Available Upon Request

(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.

Instructions for QATS Reference Material: *Inorganic ICV Solutions*

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

Nitric Acid 69%
CMOS

avantor™ | J.T.Baker®

M6119

Recieve -> 10/9/24
Met dig

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

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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®

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

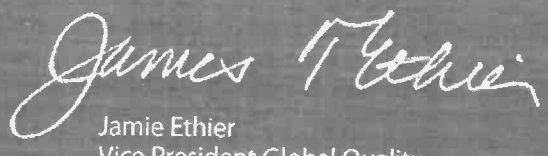
773

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

774

Nitric Acid 69%
CMOS

avantor™ | J.T.Baker®

R:- 10/22/24

MG124

Material No.: 9606-03
Batch No.: 24D1062002
Manufactured Date: 2024-03-26
Retest Date: 2029-03-25
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay (HNO_3)	69.0 - 70.0 %	69.7 %
Appearance	Passes Test	Passes Test
Color (APHA)	≤ 10	5
Residue after Ignition	≤ 2 ppm	1 ppm
Chloride (Cl)	≤ 0.08 ppm	< 0.03 ppm
Phosphate (PO_4)	≤ 0.10 ppm	< 0.03 ppm
Sulfate (SO_4)	≤ 0.2 ppm	< 0.2 ppm
Trace Impurities - Aluminum (Al)	≤ 40.0 ppb	< 1.0 ppb
Arsenic and Antimony (as As)	≤ 5.0 ppb	< 2.0 ppb
Trace Impurities - Barium (Ba)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Beryllium (Be)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Bismuth (Bi)	≤ 20.0 ppb	< 10.0 ppb
Trace Impurities - Boron (B)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities - Cadmium (Cd)	≤ 50 ppb	< 1 ppb
Trace Impurities - Calcium (Ca)	≤ 50.0 ppb	2.3 ppb
Trace Impurities - Chromium (Cr)	≤ 30.0 ppb	< 1.0 ppb
Trace Impurities - Cobalt (Co)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Copper (Cu)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Gallium (Ga)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Germanium (Ge)	≤ 20 ppb	< 10 ppb
Trace Impurities - Gold (Au)	≤ 20 ppb	< 5 ppb
Heavy Metals (as Pb)	≤ 100 ppb	100 ppb
Trace Impurities - Iron (Fe)	≤ 40.0 ppb	< 1.0 ppb
Trace Impurities - Lead (Pb)	≤ 20.0 ppb	< 10.0 ppb
Trace Impurities - Lithium (Li)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Magnesium (Mg)	≤ 20 ppb	< 1 ppb
Trace Impurities - Manganese (Mn)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Nickel (Ni)	≤ 20.0 ppb	< 5.0 ppb

>>> Continued on page 2 >>>

Nitric Acid 69%
CMOS

avantor™ | J.T.Baker®

Material No.: 9606-03
Batch No.: 24D1062002

Test	Specification	Result
Trace Impurities - Niobium (Nb)	≤ 50.0 ppb	< 1.0 ppb
Trace Impurities - Potassium (K)	≤ 50 ppb	16 ppb
Trace Impurities - Silicon (Si)	≤ 50 ppb	< 10 ppb
Trace Impurities - Silver (Ag)	≤ 20.0 ppb	< 1.0 ppb
Trace Impurities - Sodium (Na)	≤ 150.0 ppb	< 5.0 ppb
Trace Impurities - Strontium (Sr)	≤ 30.0 ppb	< 1.0 ppb
Trace Impurities - Tantalum (Ta)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities - Thallium (Tl)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities - Tin (Sn)	≤ 20.0 ppb	< 10.0 ppb
Trace Impurities - Titanium (Ti)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Vanadium (V)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Zinc (Zn)	≤ 20.0 ppb	< 1.0 ppb
Trace Impurities - Zirconium (Zr)	≤ 10.0 ppb	< 1.0 ppb
Particle Count - 0.5 µm and greater	≤ 60 par/ml	10 par/ml
Particle Count - 1.0 µm and greater	≤ 10 par/ml	3 par/ml

>>> Continued on page 3 >>>

Nitric Acid 69%
CMOS

avantor™ | J.T.Baker®

Material No.: 9606-03
Batch No.: 24D1062002

Test	Specification	Result

For Microelectronic Use

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Jamie Croak
Director Quality Operations, Bioscience Production

Alliance TECHNICAL GROUP

Water Mercury Preparation Sheet

PB165275

SOP ID : M7470A-Mercury-19, MSFAM01.1-Mercury in Water-2

SDG No : E29T2/E29S5

Matrix : WATER

Pippete ID: HG A

Balance ID : N/A

Filter paper ID : NA

pH Strip ID : M4909

Hood ID : #1

Block ID: 1. HG HOT BLOCK#1 2. N/A

Start Digest Date: 11/26/2024 **Time :** 09:50 **Temp :** 93 °C

End Digest Date: 11/26/2024 **Time :** 11:50 **Temp :** 94 °C

Digestion tube ID: M6054

Block thermometer ID: HG-DIG#1

Dig Technician Signature: [signature]

Supervisor Signature: [signature]

Temp : 1. 93°C 2. N/A

Standared Name	MLS USED	STD REF. # FROM LOG
ICV	100mL	MP83384
CCV	100mL	MP83386
Matrix Spike	0.40mL	MP83377
N/A	N/A	N/A
N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
HNO3/H2SO4(1:2)	7.5mL	MP83207
KMnO4 (5%)	15.0mL	MP83208
K2S2O8 (5%)	8.0mL	MP83209
Hydroxylamine HCL (12%)	6.0mL	MP83210
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

LAB SAMPLE ID	CLIENT SAMPLE ID	Wt(g)/Vol(ml)	Comment
0.0 ppb	S0	100mL	MP83378
0.05 ppb	S0.05	N/A	N/A
0.2 ppb	S0.2	100mL	MP83379
2.5 ppb	S2.5	100mL	MP83380
5.0 ppb	S5.0	100mL	MP83381
7.5 ppb	S7.5	100mL	MP83382
10.0 ppb	S10.0	100mL	MP83383
ICV	ICV	100mL	MP83384
ICB	ICB	100mL	MP83385
CCV	CCV	100mL	MP83386
CCB	CCB	100mL	MP83387
CRI	CRI	N/A	N/A
CHK STD	CHK STD	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

N/A

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
11/26/24 @ 1155	[illegible] -DIG. Lab	[illegible] Metal Lab
	Preparation Group	Analysis Group

Alliance TECHNICAL GROUP

Water Mercury Preparation Sheet

PB165275

Lab Sample ID	Client Sample ID	Initial Vol (ml)	Final Vol (ml)	pH	Comment	Prep Pos
P4831-01	E29S4	100	100	<2	N/A	1-1
P4831-02	E29S4D	100	100	<2	N/A	2
P4831-03	E29S4S	100	100	<2	MP83377	3
P4831-04	E29T2	100	100	<2	N/A	4
P4831-05	E29T4	100	100	<2	N/A	5
P4831-06	E29W0	100	100	<2	N/A	6
P4831-07	E29W4	100	100	<2	N/A	7
P4831-08	E29W1	100	100	<2	N/A	8
P4831-09	E29W5	100	100	<2	N/A	9
P4831-10	E29R6	100	100	<2	N/A	10
P4831-11	E29S0	100	100	<2	N/A	11
P4831-12	E29S2	100	100	<2	N/A	12
P4831-13	E29S6	100	100	<2	N/A	13
P4831-14	E29W6	100	100	<2	N/A	14
P4831-15	E29W2	100	100	<2	N/A	15
P4832-01	E29S5	100	100	<2	N/A	16
P4832-02	E29S5D	100	100	<2	N/A	17
P4832-03	E29S5S	100	100	<2	MP83377	18
P4832-04	E29T3	100	100	<2	N/A	19
P4832-05	E29T5	100	100	<2	N/A	20
P4832-06	E29R7	100	100	<2	N/A	21
P4832-07	E29S1	100	100	<2	N/A	22
P4832-08	E29S3	100	100	<2	N/A	23
P4832-09	E29S7	100	100	<2	N/A	24
PB165275BL	PBW275	100	100	<2	N/A	25

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

Instrument ID: CV1

Daily Analysis Runlog For Sequence/QCBatch ID # LB133633

Review By	Sarabjit Jaswal	Review On	11/27/2024 10:29:19 PM
Supervise By	Mohan Bera	Supervise On	11/27/2024 10:31:16 PM

STD. NAME	STD REF.#
ICAL Standard	MP83378,MP83379,MP83380,MP83381,MP83382,MP83383
ICV Standard	MP83384
CCV Standard	MP83386
ICSA Standard	
CRI Standard	
LCS Standard	
Chk Standard	MP83385,MP83387,MP83391

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	S0	S0	CAL1	11/26/24 13:52		Mohan	OK
2	S0.2	S01	CAL2	11/26/24 13:54		Mohan	OK
3	S2.5	S02	CAL3	11/26/24 13:57		Mohan	OK
4	S5	S03	CAL4	11/26/24 13:59		Mohan	OK
5	S7.5	S04	CAL5	11/26/24 14:01		Mohan	OK
6	S10	S05	CAL6	11/26/24 14:04		Mohan	OK
7	ICV001	ICV001	ICV	11/26/24 14:09		Mohan	OK
8	ICB001	ICB001	ICB	11/26/24 14:12		Mohan	OK
9	CCV055	CCV055	CCV	11/26/24 14:14		Mohan	OK
10	CCB055	CCB055	CCB	11/26/24 14:16		Mohan	OK
11	PB165275BL	PBW275	MB	11/26/24 14:18		Mohan	OK
12	P4831-01	E29S4	SAM	11/26/24 14:21		Mohan	OK
13	P4831-02	E29S4D	DUP	11/26/24 14:23		Mohan	OK
14	P4831-03	E29S4S	MS	11/26/24 14:25		Mohan	OK
15	P4831-04	E29T2	SAM	11/26/24 14:27		Mohan	OK
16	P4831-05	E29T4	SAM	11/26/24 14:30		Mohan	OK
17	P4831-06	E29W0	SAM	11/26/24 14:32		Mohan	OK
18	P4831-07	E29W4	SAM	11/26/24 14:34		Mohan	OK

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

Instrument ID: CV1

Daily Analysis Runlog For Sequence/QCBatch ID # LB133633

Review By	Sarabjit Jaswal	Review On	11/27/2024 10:29:19 PM
Supervise By	Mohan Bera	Supervise On	11/27/2024 10:31:16 PM

STD. NAME	STD REF.#
ICAL Standard	MP83378,MP83379,MP83380,MP83381,MP83382,MP83383
ICV Standard	MP83384
CCV Standard	MP83386
ICSA Standard	
CRI Standard	
LCS Standard	
Chk Standard	MP83385,MP83387,MP83391

19	P4831-08	E29W1	SAM	11/26/24 14:37		Mohan	OK
20	P4831-09	E29W5	SAM	11/26/24 14:39		Mohan	OK
21	P4831-10	E29R6	SAM	11/26/24 14:41		Mohan	OK
22	P4831-11	E29S0	SAM	11/26/24 14:43		Mohan	OK
23	P4831-12	E29S2	SAM	11/26/24 14:46		Mohan	OK
24	P4831-13	E29S6	SAM	11/26/24 14:48		Mohan	OK
25	P4831-14	E29W6	SAM	11/26/24 14:50		Mohan	OK
26	P4831-15	E29W2	SAM	11/26/24 14:52		Mohan	OK
27	P4832-01	E29S5	SAM	11/26/24 14:55		Mohan	OK
28	P4832-02	E29S5D	DUP	11/26/24 14:57		Mohan	OK
29	P4832-03	E29S5S	MS	11/26/24 14:59		Mohan	OK
30	P4832-04	E29T3	SAM	11/26/24 15:01		Mohan	OK
31	CCV056	CCV056	CCV	11/26/24 15:04		Mohan	OK
32	CCB056	CCB056	CCB	11/26/24 15:06		Mohan	OK
33	P4832-05	E29T5	SAM	11/26/24 15:08		Mohan	OK
34	P4832-06	E29R7	SAM	11/26/24 15:10		Mohan	OK
35	P4832-07	E29S1	SAM	11/26/24 15:13		Mohan	OK
36	P4832-08	E29S3	SAM	11/26/24 15:15		Mohan	OK
37	P4832-09	E29S7	SAM	11/26/24 15:17		Mohan	OK
38	PB165276BL	PBW276	MB	11/26/24 15:20		Mohan	OK

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

Instrument ID: CV1

Daily Analysis Runlog For Sequence/QCBatch ID # LB133633

Review By	Sarabjit Jaswal	Review On	11/27/2024 10:29:19 PM
Supervise By	Mohan Bera	Supervise On	11/27/2024 10:31:16 PM

STD. NAME	STD REF.#
ICAL Standard	MP83378,MP83379,MP83380,MP83381,MP83382,MP83383
ICV Standard	MP83384
CCV Standard	MP83386
ICSA Standard	
CRI Standard	
LCS Standard	
Chk Standard	MP83385,MP83387,MP83391

39	P4877-01	E29Z1	SAM	11/26/24 15:22		Mohan	OK
40	P4877-02	E29Z3	SAM	11/26/24 15:24		Mohan	OK
41	P4877-03	E29Z5	SAM	11/26/24 15:26		Mohan	OK
42	P4877-04	E29Z7	SAM	11/26/24 15:29		Mohan	OK
43	P4877-05	E2A13	SAM	11/26/24 15:31		Mohan	OK
44	P4877-06	E2A19	SAM	11/26/24 15:33		Mohan	OK
45	P4877-07	E2A22	SAM	11/26/24 15:35		Mohan	OK
46	P4877-08	E2A23	SAM	11/26/24 15:38		Mohan	OK
47	P4877-09	E29Z9	SAM	11/26/24 15:40		Mohan	OK
48	P4877-10	E2A01	SAM	11/26/24 15:42		Mohan	OK
49	P4877-11	E2A01D	DUP	11/26/24 15:44		Mohan	OK
50	P4877-12	E2A01S	MS	11/26/24 15:47		Mohan	OK
51	P4877-13	E2A03	SAM	11/26/24 15:49		Mohan	OK
52	P4877-14	E2A05	SAM	11/26/24 15:51		Mohan	OK
53	CCV057	CCV057	CCV	11/26/24 15:54		Mohan	OK
54	CCB057	CCB057	CCB	11/26/24 15:56		Mohan	OK
55	P4877-15	E2A07	SAM	11/26/24 15:58		Mohan	OK
56	P4877-16	E2A09	SAM	11/26/24 16:00		Mohan	OK
57	P4877-17	E2A20	SAM	11/26/24 16:03		Mohan	OK
58	P4877-18	E2A24	SAM	11/26/24 16:05		Mohan	OK

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

Instrument ID: CV1

Daily Analysis Runlog For Sequence/QCBatch ID # LB133633

Review By	Sarabjit Jaswal	Review On	11/27/2024 10:29:19 PM
Supervise By	Mohan Bera	Supervise On	11/27/2024 10:31:16 PM

STD. NAME	STD REF.#
ICAL Standard	MP83378,MP83379,MP83380,MP83381,MP83382,MP83383
ICV Standard	MP83384
CCV Standard	MP83386
ICSA Standard	
CRI Standard	
LCS Standard	
Chk Standard	MP83385,MP83387,MP83391

59	P4877-19	E29S9	SAM	11/26/24 16:07		Mohan	OK
60	PB165277BL	PBW277	MB	11/26/24 16:09		Mohan	OK
61	P4878-01	E29Z2	SAM	11/26/24 16:12		Mohan	OK
62	P4878-02	E29Z4	SAM	11/26/24 16:14		Mohan	OK
63	P4878-03	E29Z6	SAM	11/26/24 16:16		Mohan	OK
64	P4878-04	E29Z8	SAM	11/26/24 16:18		Mohan	OK
65	P4878-05	E2A14	SAM	11/26/24 16:21		Mohan	OK
66	P4878-06	E2A00	SAM	11/26/24 16:23		Mohan	OK
67	P4878-07	E2A02	SAM	11/26/24 16:25		Mohan	OK
68	P4878-08	E2A02D	DUP	11/26/24 16:28		Mohan	OK
69	P4878-09	E2A02S	MS	11/26/24 16:30		Mohan	OK
70	P4878-10	E2A04	SAM	11/26/24 16:32		Mohan	OK
71	P4878-11	E2A06	SAM	11/26/24 16:34		Mohan	OK
72	P4878-12	E2A08	SAM	11/26/24 16:37		Mohan	OK
73	P4878-13	E2A10	SAM	11/26/24 16:39		Mohan	OK
74	CCV058	CCV058	CCV	11/26/24 16:41		Mohan	OK
75	CCB058	CCB058	CCB	11/26/24 16:43		Mohan	OK

ORIGIN ID:DAYA (916) 804-6338
MATT HARTMAN
EA ENGINEERING SCIENCE & TECH
170 E MAIN ST
SUITE #4
DONNELSVILLE, OH 45319
UNITED STATES US

SHIP DATE: 12NOV24
ACTWGT: 50.00 LB
CAD: 253267503/INET4535
DIMS: 24x12x12 IN

BILL SENDER

TO **MOHAMMAD AHMED**
ALLIANCE TECHNICAL GROUP LLC
284 SHEFFIELD STREET
MOUNTAINSIDE NJ 07092
(908) 789-8900
INV:
PO:
REF: 15785-32-0134-CP-6.14
DEPT: 2173

105
11-13-24
2.3

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CAD: 253267503/INET4535
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CAD: 253267603/INET4535
DIMS: 24x12x12 IN

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UNITED STATES US

SHIP DATE: 12NOV24
ACTWGT: 50.00 LB
CAD: 253267503/INET4535
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(908) 789-8900
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ACTWGT: 50.00 LB
CAD: 253267503/INET4535
DIMS: 24x12x12 IN

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284 SHEFFIELD STREET
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170 E MAIN ST
SUITE #4
DONNELSVILLE, OH 45319
UNITED STATES US

SHIP DATE: 13NOV24
ACTWGT: 60.00 LB
CAD: 253267503/INET4535
DIMS: 24x12x12 IN

BILL SENDER

TO **MOHAMMAD AHMED**
ALLIANCE TECHNICAL GROUP LLC
284 SHEFFIELD STREET
MOUNTAINSIDE NJ 07092
(908) 789-8900
Inv:
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TRK# 0201 **7799 3556 4750**

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Alliance TECHNICAL GROUP 284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Login Summary Report

Order ID :	P4831	Order Date :	11/14/2024 9:45:00 AM	Project Mgr :	Deepak
Client :	USEPA CLP SMO	Project :	51880	Report Type :	USEPA CLP
Contact :	Anita Kapadia	Receive Date :	11/14/2024 9:45:00 AM	EDD Type :	EPA CLP
Date Sign Off :	11/18/2024 2:24:09 PM				

Sample ID	Client ID	Matrix	Sampling Date	Test	Test Group	Method	TAT Days	Fax Due Date	HC Due Date
P4831-01	E29S4	Water	11/12/2024						
				Mercury		SFAM_HG	15	12/05/2024	12/05/2024
				Metals CLP MS		SFAM_MS	15	12/05/2024	12/05/2024
P4831-02	E29S4D	Water	11/12/2024						
				Mercury		SFAM_HG	15	12/05/2024	12/05/2024
				Metals CLP MS		SFAM_MS	15	12/05/2024	12/05/2024
P4831-03	E29S4S	Water	11/12/2024						
				Mercury		SFAM_HG	15	12/05/2024	12/05/2024
				Metals CLP MS		SFAM_MS	15	12/05/2024	12/05/2024
P4831-04	E29T2	Water	11/11/2024						
				Mercury		SFAM_HG	15	12/05/2024	12/05/2024
				Metals CLP MS		SFAM_MS	15	12/05/2024	12/05/2024
P4831-05	E29T4	Water	11/11/2024						
				Mercury		SFAM_HG	15	12/05/2024	12/05/2024
				Metals CLP MS		SFAM_MS	15	12/05/2024	12/05/2024
P4831-06	E29W0	Water	11/11/2024		FB				
				Mercury		SFAM_HG	15	12/05/2024	12/05/2024
				Metals CLP MS		SFAM_MS	15	12/05/2024	12/05/2024
P4831-07	E29W4	Water	11/11/2024		RB				
				Mercury		SFAM_HG	15	12/05/2024	12/05/2024
				Metals CLP MS		SFAM_MS	15	12/05/2024	12/05/2024
P4831-08	E29W1	Water	11/12/2024		FB				
				Mercury		SFAM_HG	15	12/05/2024	12/05/2024
				Metals CLP MS		SFAM_MS	15	12/05/2024	12/05/2024
P4831-09	E29W5	Water	11/12/2024		RB				
				Mercury		SFAM_HG	15	12/05/2024	12/05/2024
				Metals CLP MS		SFAM_MS	15	12/05/2024	12/05/2024
P4831-10	E29R6	Water	11/13/2024		DUP				
				Mercury		SFAM_HG	15	12/05/2024	12/05/2024
				Metals CLP MS		SFAM_MS	15	12/05/2024	12/05/2024

P4831-11	E29S0	Water	11/13/2024						
				Mercury		SFAM_HG	15	12/05/2024	12/05/2024
				Metals CLP MS		SFAM_MS	15	12/05/2024	12/05/2024
P4831-12	E29S2	Water	11/13/2024						
				Mercury		SFAM_HG	15	12/05/2024	12/05/2024
				Metals CLP MS		SFAM_MS	15	12/05/2024	12/05/2024
P4831-13	E29S6	Water	11/12/2024						
				Mercury		SFAM_HG	15	12/05/2024	12/05/2024
				Metals CLP MS		SFAM_MS	15	12/05/2024	12/05/2024
P4831-14	E29W6	Water	11/13/2024		RB				
				Mercury		SFAM_HG	15	12/05/2024	12/05/2024
				Metals CLP MS		SFAM_MS	15	12/05/2024	12/05/2024
P4831-15	E29W2	Water	11/13/2024		FB				
				Mercury		SFAM_HG	15	12/05/2024	12/05/2024
				Metals CLP MS		SFAM_MS	15	12/05/2024	12/05/2024

WORKLIST(Hardcopy Internal Chain)

WorkList Name : PB165103 **WorkList ID :** 185570 **Department :** Digestion **Date :** 11-19-2024 09:27:16

794

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P4831-01	E29S4	Water	Metals CLP MS	1:1 HNO3 to pH < 2	USEP01	Q11	11/12/2024	SFAM_MS
P4831-02	E29S4D	Water	Metals CLP MS	1:1 HNO3 to pH < 2	USEP01	Q11	11/12/2024	SFAM_MS
P4831-03	E29S4S	Water	Metals CLP MS	1:1 HNO3 to pH < 2	USEP01	Q11	11/12/2024	SFAM_MS
P4831-04	E29T2	Water	Metals CLP MS	1:1 HNO3 to pH < 2	USEP01	Q11	11/12/2024	SFAM_MS
P4831-05	E29T4	Water	Metals CLP MS	1:1 HNO3 to pH < 2	USEP01	Q11	11/11/2024	SFAM_MS
P4831-06	E29W0	Water	Metals CLP MS	1:1 HNO3 to pH < 2	USEP01	Q11	11/11/2024	SFAM_MS
P4831-07	E29W4	Water	Metals CLP MS	1:1 HNO3 to pH < 2	USEP01	Q11	11/11/2024	SFAM_MS
P4831-08	E29W1	Water	Metals CLP MS	1:1 HNO3 to pH < 2	USEP01	Q11	11/11/2024	SFAM_MS
P4831-09	E29W5	Water	Metals CLP MS	1:1 HNO3 to pH < 2	USEP01	Q11	11/12/2024	SFAM_MS
P4831-10	E29R6	Water	Metals CLP MS	1:1 HNO3 to pH < 2	USEP01	Q11	11/12/2024	SFAM_MS
P4831-11	E29S0	Water	Metals CLP MS	1:1 HNO3 to pH < 2	USEP01	Q11	11/13/2024	SFAM_MS
P4831-12	E29S2	Water	Metals CLP MS	1:1 HNO3 to pH < 2	USEP01	Q11	11/13/2024	SFAM_MS
P4831-13	E29S6	Water	Metals CLP MS	1:1 HNO3 to pH < 2	USEP01	Q11	11/13/2024	SFAM_MS
P4831-14	E29W6	Water	Metals CLP MS	1:1 HNO3 to pH < 2	USEP01	Q11	11/12/2024	SFAM_MS
P4831-15	E29W2	Water	Metals CLP MS	1:1 HNO3 to pH < 2	USEP01	Q11	11/13/2024	SFAM_MS

Date/Time 11/19/24 9:45

Raw Sample Received by: JSP (Met dig)

Raw Sample Relinquished by: [signature]

Date/Time 11/19/24 10:45

Raw Sample Received by: [signature]

Raw Sample Relinquished by: JSP (Met dig)

WORKLIST(Hardcopy Internal Chain)

WorkList Name : P4631_HgW **WorkList ID :** 185749 **Department :** Digestion **Date :** 11-25-2024 11:59:36

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P4831-01	E29S4	Water	Mercury	1:1 HNO3 to pH < 2	USEP01	Q11	11/12/2024	SFAM_HG
P4831-02	E29S4D	Water	Mercury	1:1 HNO3 to pH < 2	USEP01	Q11	11/12/2024	SFAM_HG
P4831-03	E29S4S	Water	Mercury	1:1 HNO3 to pH < 2	USEP01	Q11	11/12/2024	SFAM_HG
P4831-04	E29T2	Water	Mercury	1:1 HNO3 to pH < 2	USEP01	Q11	11/12/2024	SFAM_HG
P4831-05	E29T4	Water	Mercury	1:1 HNO3 to pH < 2	USEP01	Q11	11/11/2024	SFAM_HG
P4831-06	E29W0	Water	Mercury	1:1 HNO3 to pH < 2	USEP01	Q11	11/11/2024	SFAM_HG
P4831-07	E29W4	Water	Mercury	1:1 HNO3 to pH < 2	USEP01	Q11	11/11/2024	SFAM_HG
P4831-08	E29W1	Water	Mercury	1:1 HNO3 to pH < 2	USEP01	Q11	11/11/2024	SFAM_HG
P4831-09	E29W5	Water	Mercury	1:1 HNO3 to pH < 2	USEP01	Q11	11/12/2024	SFAM_HG
P4831-10	E29R6	Water	Mercury	1:1 HNO3 to pH < 2	USEP01	Q11	11/12/2024	SFAM_HG
P4831-11	E29S0	Water	Mercury	1:1 HNO3 to pH < 2	USEP01	Q11	11/13/2024	SFAM_HG
P4831-12	E29S2	Water	Mercury	1:1 HNO3 to pH < 2	USEP01	Q11	11/13/2024	SFAM_HG
P4831-13	E29S6	Water	Mercury	1:1 HNO3 to pH < 2	USEP01	Q11	11/13/2024	SFAM_HG
P4831-14	E29W6	Water	Mercury	1:1 HNO3 to pH < 2	USEP01	Q11	11/12/2024	SFAM_HG
P4831-15	E29W2	Water	Mercury	1:1 HNO3 to pH < 2	USEP01	Q11	11/13/2024	SFAM_HG

795

Date/Time 11/26/24 @ 9:05

Raw Sample Received by: [illegible]

Raw Sample Relinquished by: [illegible]

Date/Time 11/26/24 @ 10:35

Raw Sample Received by: [illegible]

Raw Sample Relinquished by: [illegible]

WORKLIST(Hardcopy Internal Chain)

WorkList Name : P4632_HgW **WorkList ID :** 185750 **Department :** Digestion **Date :** 11-25-2024 11:59:43

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P4832-01	E29S5	Water	Mercury	1:1 HNO3 to pH < 2	USEP01	Q11	11/12/2024	SFAM_HG
P4832-02	E29S5D	Water	Mercury	1:1 HNO3 to pH < 2	USEP01	Q11	11/12/2024	SFAM_HG
P4832-03	E29S5S	Water	Mercury	1:1 HNO3 to pH < 2	USEP01	Q11	11/12/2024	SFAM_HG
P4832-04	E29T3	Water	Mercury	1:1 HNO3 to pH < 2	USEP01	Q11	11/12/2024	SFAM_HG
P4832-05	E29T5	Water	Mercury	1:1 HNO3 to pH < 2	USEP01	Q11	11/11/2024	SFAM_HG
P4832-06	E29R7	Water	Mercury	1:1 HNO3 to pH < 2	USEP01	Q11	11/11/2024	SFAM_HG
P4832-07	E29S1	Water	Mercury	1:1 HNO3 to pH < 2	USEP01	Q11	11/13/2024	SFAM_HG
P4832-08	E29S3	Water	Mercury	1:1 HNO3 to pH < 2	USEP01	Q11	11/13/2024	SFAM_HG
P4832-09	E29S7	Water	Mercury	1:1 HNO3 to pH < 2	USEP01	Q11	11/12/2024	SFAM_HG

796

Date/Time 11/26/24 @ 9:05

Raw Sample Received by: MB - DLG, LWS

Raw Sample Relinquished by: MB - DLG, LWS

Date/Time 11/26/24 @ 10:30

Raw Sample Received by: MB - DLG, LWS

Raw Sample Relinquished by: MB - DLG, LWS