FULL INORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET

LABORATORY NAME	ALS Environmental		
CITY/STATE	Salt Lake City, UT 84123		
CASE NO.	45299	SDG NO.:	MF9K15
SDG NOs. TO FOLLOW	N/A		
MOD. REF. No.	N/A		
CONTRACT NO.	EPW09036		
SOW NO.	ISM01.3		

All documents delivered in the Complete SDG File must be original documents where possible. (Reference - Exhibit B Section 2.6)

	PAGE NOs FROM	PAGE NOs TO	CHECK LAB	CHECK REGION
1. Inventory Sheet (DC-2)	1	2	✓	
2. SDG Narrative	3	5	✓	
3. Sample Log-In Sheet (DC-1)	6	6	✓	
4. Traffic Report/Chain of Custody Record(s)	7	8	✓	
5. Cover Page	9	9	✓	
Inorganic Analysis				
6. Data Sheet (Form I-IN)	10	35	✓	
7. Initial & Continuing Calibration Verification (Form IIA-IN)	36	39	✓	
8. Blanks (Form III-IN)	40	41	✓	
9. ICP-AES Interference Check Sample(Form IVA-IN)	42	42	✓	
10. ICP-MS Interference Check Sample(Form IVB-IN)	43	43	✓	
11. Matrix Spike Sample Recovery(Form VA-IN)	44	45	✓	
12. Post-Digestion Spike Sample Recovery(Form VB-IN)	46	46	✓	
13. Duplicates (Form VI-IN)	47	48	✓	
14. Laboratory Control Sample (Form VII-IN)	49	50	✓	
15. ICP-AES and ICP-MS Serial Dilutions (Form VIII-IN)	51	52	✓	
16. Method Detection Limit (Annually) (Form IX-IN)	53	55	✓	
17. ICP-AES Interelement Correction Factors (Quarterly) Form XA-IN)	56	56	✓	
18. ICP-AES Interelement Correction Factors (Annually) Form XB-IN)	57	58	✓	
19. Internal Standard Association (Form X1-IN)	59	59	✓	
20. Preparation Log (Form XII-IN)	60	62	✓	
21. Analysis Run Log (Form XIII-IN)	63	67	✓	

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FULL INORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET

	PAGE NOs FROM	PAGE NOs TO	CHECK LAB	CHECK REGION
22. ICP-MS Tune (Form XIV-IN)	68	68	✓	
23. ICP-MS Internal Standards Relative Intensity Summary (Form XV-IN)	69	72	✓	
24. Initial Calibration (Form XVI - IN)	73	80	✓	
25. ICP AES Raw Data	81	151	✓	
26. ICP-MS Raw Data	152	289	✓	
27. Mercury Raw Dta	290	294	✓	
28. Cyanide Raw Data	n/a		✓	
29. Preparation Logs Raw Data	295	297	✓	
30. Percent Solids Determination Log	298	298	✓	
31. USEPA Shipping/Receiving Documents				
Airbill (No. of Shipments 1)	299	299	✓	
Sample Tags	300	300	✓	
Sample Log-In Sheet (Lab)	NA		✓	
32. Misc. Shipping/Receiving Records (list all individual records)				
Communication Logs	NA		✓	
ALS SDG TR Cover Sheet	301	302	✓	
			✓	
33. Internal Lab Sample Transfer Records and Tracking Sheets (describe or list)				
ALS CoC	303	308	✓	
34. Internal Original Sample Prep & Analysis Records (describe or list)				
Prep Records	309	330	✓	
Analysis Records	331	406	✓	
PE Instructions	n/a			
Description	NA		✓	
35. Other Records (describe or list)				
Communication Logs	NA		✓	
E-mail Communications	n/a		✓	
			✓	

36. Comments: n/a

Completed by:
(CLP Lab)

(Signature)	(Print Name & Title)	(Date)
Desiree Hill	Desiree Hill / Doc. Ctrl.	7/2/15

Audited By:
(USEPA)

(Signature)	(Print Name & Title)	(Date)

960 W. LeVoy Drive
Salt Lake City, UT 84123
T: +1 801 266 7700
F: +1 801 268 9992
www.alsglobal.com

SDG Administrative Narrative

Contract: EPW09036

Case: 45299

SDG: MF9K15

WO No(s): 1516423

Cooler # and Temperatures of each (upon receipt)

Cooler Number C15-	n/a	Arrival temperature was	4	°C
Cooler Number C15-		Arrival temperature was		°C
Cooler Number C15-		Arrival temperature was		°C
Cooler Number C15-		Arrival temperature was		°C
Cooler Number C15-		Arrival temperature was		°C
Cooler Number C15-		Arrival temperature was		°C
Cooler Number C15-		Arrival temperature was		°C
Cooler Number C15-		Arrival temperature was		°C

07/02/2015 DH

Communications:

The sample receipt for this Case/SDG is compliant with EPA CLP SOW requirements.

Comments:

None

Signature: Desiree Hill
Document Control Officer

Date: 07/02/2015

SDG Narrative

Case:	45299	Contract #:	EPW-09-036
SDG:	MF9K15	ALS Set ID #:	1516423

General Information: The thirteen samples in this SDG were analyzed by methodologies contained in ISM01.3. All concentration, analytical, and method qualifiers are defined in the SOW.

Target Analytes: Target analytes for this SDG are aluminum, antimony, arsenic, barium, beryllium, cadmium, calcium, chromium, cobalt, copper, iron, lead, magnesium, manganese, mercury, nickel, potassium, selenium, silver, sodium, thallium, vanadium, and zinc.

Holding Times: All samples were prepared and analyzed within method required holding times.

Initial and Continuing Calibration: All initial and continuing calibration verification and blank analyses were performed within the designated frequency and recoveries of the verifications and concentrations of the blanks met method acceptance criteria.

Interference Check Sample Analysis: Results for the interference check samples met method acceptance criteria.

Preparation Blanks: The absolute values of all analyte concentrations in the preparation blanks were lower than the Contract Required Quantitation Limits.

Laboratory Control Sample Analysis: Results for the analysis of the LCSs met method acceptance criteria.

Matrix Spike Analysis: All matrix spike recoveries met method acceptance criteria with the exception of antimony.

Matrix Duplicate Analysis: All matrix duplicate results met method acceptance criteria with the exception of aluminum.

Serial Dilution: All serial dilution results met method acceptance criteria with the exception of zinc.

Miscellaneous Comments: All calibration data is linear, please see raw data.

Example Equations:

Method 3050B: $$C \times \frac{Vf}{W \times S} \times DF \div 1000 = Concentration\ (mg/Kg)$$

Method 7471B: $$C \times \frac{1}{W \times S} \times DF \times 0.1 = Concentration\ (mg/Kg)$$

Where,
C = Instrument value in µg/L (The average of all replicate integrations).
Vf = Final digestion volume (mL)
W = Initial digestion Weight (g)
DF = Dilution Factor
S = % Solids/100

SAMPLE LOG-IN SHEET
FORM DC-1

Lab Name: ALS Environmental	Page 1 of 1
Received By (Print Name): Meredith Edwards	Log-In Date: 6/13/2015
Received By (Signature): Meredith Edwards	
Case Number: 452299	Sample Delivery Group No.: MF9K15
	Mod. Ref. No.: N/a

Remarks:

1. Custody Seal (s): Present/Absent* — Intact/Broken*
2. Custody Seal Nos.: N/a / 1
3. Traffic Report/ Chain-of Custody Records or Packing Lists: Present/Absent*
4. Airbill: Airbill/Sticker Present/Absent*
5. Airbill No.: 7738 2071 8514 / N/a
6. Sample Tags: Present/Absent* (Dec 4/2015)
   Sample Tag Numbers: Listed/Not Listed on Chain-of-Custody
7. Sample Condition: Intact/Broken*/Leaking*
8. Cooler Temperature Indicator Bottle: Present/Absent*
9. Cooler Temperature: 4
10. Does information on TR/COCs and sample tags agree? Yes/No*
11. Date Received at Laboratory: 6/13/2015
12. Time Received: 9:45

	EPA Sample #	Aqueous/ Water Sample pH	Corresponding: Sample Tag #	Corresponding: Assigned Lab #	Remarks: Condition of Sample Shipment, etc.
1	MF9K15	N/a	N/a	1516423001	AES/MS/Hg Soil
2	16			002	
3	17			003	
4	19			004	
5	20			005	
6	21			006	
7	22			007	
8	23			008	
9	25			009	
10	26			010,011,012	MS/MSD
11	27			013	
12	28			014	
13	29			015	
14					
15					
16					
17					
18					
19					
20					
21					
22					

MEE 6/13/2015

Sample Transfer

Fraction: AES/MS/Hg	Fraction:
Area #: F33.1	Area #:
By: MEE	By:
On: 6/13/2015	On:

MEE 6/13/2015

* Contact SMO and attach record of resolution

Reviewed By: Joanne Elson	Logbook No.: Not Applicable
Date: 6/15/15	Logbook Page No.: Not Applicable

1516423

USEPA CLP COC (LAB COPY)

DateShipped: 6/12/2015

CarrierName: FedEx

AirbillNo: 773820718514

CHAIN OF CUSTODY RECORD MF9K15

Case #: 45299

Cooler #:

No: 6-061215-113554-0114

Lab: ALS Laboratory Group - Salt Lake City

Lab Contact: Meredith Edwards

Lab Phone: 801-266-7700

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	For Lab Use Only
WO-017-003-06-51S	MF9K15	Soil/ START	Composite/ Sieved	TM + Hg(21)	1828 (Ice) (1)	017	06/10/2015 15:18	
WO-017-004-06-51S	MF9K16	Soil/ START	Composite/ Sieved	TM + Hg(21)	1829 (Ice) (1)	017	06/10/2015 16:00	
WO-017-005-00-51S	MF9K17	Soil/ START	Composite/ Sieved	TM + Hg(21)	1830 (Ice) (1)	017	06/11/2015 09:00	
WO-020-001-00-51S	MF9K19	Soil/ START	Composite/ Sieved	TM + Hg(21)	1832 (Ice) (1)	020	06/11/2015 09:53	
WO-017-006-00-51S	MF9K20	Soil/ START	Composite/ Sieved	TM + Hg(21)	1833 (Ice) (1)	017	06/11/2015 10:40	
WO-020-004-06-51S	MF9K21	Soil/ START	Composite/ Sieved	TM + Hg(21)	1834 (Ice) (1)	020	06/11/2015 11:45	
WO-020-006-00-51S	MF9K22	Soil/ START	Composite/ Sieved	TM + Hg(21)	1835 (Ice) (1)	020	06/11/2015 13:49	
WO-020-001-06-51S	MF9K23	Soil/ START	Composite/ Sieved	TM + Hg(21)	1836 (Ice) (1)	020	06/11/2015 14:12	
WO-020-003-00-51S	MF9K25	Soil/ START	Composite/ Sieved	TM + Hg(21)	1838 (Ice) (1)	020	06/11/2015 15:47	
WO-020-004-00-51S	MF9K26	Soil/ START	Composite/ Sieved	TM + Hg(21)	1839 (Ice) (1)	020	06/11/2015 16:20	

Sample(s) to be used for Lab QC: WO-020-004-00-51S Tag 1839	**Shipment for Case Complete? Y**
	Samples Transferred From Chain of Custody #
Analysis Key: TM + Hg=CLP TM + Hg	

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
Samples/Analysis	[signature] Weston	6/12/15 @ 1600	FedEx	6/12/15 @ 1600	
	FedEx	6/13/15 9:45	[signature] Edwards DATAC	6/13/15 9:45	good

MF9K45

USEPA CLP COC (LAB COPY)

DateShipped: 6/12/2015
CarrierName: FedEx
AirbillNo: 773820718514

CHAIN OF CUSTODY RECORD

Case #: 45299
Cooler #:

No: 6-061215-113554-0114

Lab: ALS Laboratory Group - Salt Lake City
Lab Contact: Meredith Edwards
Lab Phone: 801-266-7700

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	For Lab Use Only
WO-020-003-06-51S	MF9K27	Soil/ START	Composite/ Sieved	TM + Hg(21)	1840 (Ice) (1)	020	06/12/2015 09:07	MB 6/13/2015
WO-020-006-06-51S	MF9K28	Soil/ START	Composite/ Sieved	TM + Hg(21)	1841 (Ice) (1)	020	06/12/2015 10:42	
WO-020-002-00-51S	MF9K29	Soil/ START	Composite/ Sieved	TM + Hg(21)	1837 (Ice) (1)	020	06/11/2015 15:06	SOR Final Sample

Special Instructions:

Shipment for Case Complete? Y

Samples Transferred From Chain of Custody #

Analysis Key: TM + Hg=CLP TM + Hg

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
Samples/Analysis	[signature] Weston	6/12/15 @ 1600	FedEx	6/12/15 @ 1600	
	FedEx	6/13/2015 9:45	[signature] DATA	6/13/2015 9:45	good

USEPA - CLP
COVER PAGE

Lab Name: ALS Environmental Contract: EPW09036

Lab Code: DATAC Case No.: 45299 Mod. Ref. No.: SDG No.: MF9K15

SOW No.: ISM01.3

EPA Sample No.	Lab Sample ID
MF9K15	1516423001
MF9K16	1516423002
MF9K17	1516423003
MF9K19	1516423004
MF9K20	1516423005
MF9K21	1516423006
MF9K22	1516423007
MF9K23	1516423008
MF9K25	1516423009
MF9K26	1516423010
MF9K26D	1516423012
MF9K26S	1516423011
MF9K27	1516423013
MF9K28	1516423014
MF9K29	1516423015

		ICP-AES	ICP-MS
Were ICP-AES and ICP-MS Interelement corrections applied?	(Yes/No)	Yes	Yes
Were ICP-AES and ICP-MS background corrections applied?	(Yes/No)	Yes	No
If yes - were raw data generated before application of background corrections?	(Yes/No)	No	

The laboratory did not receive any instructions with this SDG to modify the SOW standard laboratory sample preparation procedures (e.g., subsampling). To aid in the determination of data usability with respect to project decisions, any modifications performed are described below.

Comments:

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 above. Release of the data contained in this hardcopy Data Package 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: Neil Edwards

Date: 07/01/2015 Title: Chemist

USEPA - CLP
1A-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MF9K15

Lab Name: ALS Environmental Contract: EPW09036

Lab Code: DATAC Case No.: 45299 Mod. Ref. No.: SDG No.: MF9K15

Matrix: Soil Lab Sample ID: 1516423001

% Solids: 95.7 Date Received: 06/13/2015

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				
7440-36-0	Antimony	0.096	J	DN	MS
7440-38-2	Arsenic	1.8		D	MS
7440-39-3	Barium	59.6		D	MS
7440-41-7	Beryllium	0.27	J	D	MS
7440-43-9	Cadmium	0.38	J	D	MS
7440-70-2	Calcium				
7440-47-3	Chromium	8.2		D	MS
7440-48-4	Cobalt	3.5		D	MS
7440-50-8	Copper	33.7		D	MS
7439-89-6	Iron				
7439-92-1	Lead	38.5		D	MS
7439-95-4	Magnesium				
7439-96-5	Manganese				
7439-97-6	Mercury	0.052	J		CV
7440-02-0	Nickel	5.2		D	MS
7440-09-7	Potassium				
7782-49-2	Selenium	0.27	J	D	MS
7440-22-4	Silver	0.062	J	D	MS
7440-23-5	Sodium				
7440-28-0	Thallium	0.065	J	D	MS
7440-62-2	Vanadium	11.8		D	MS
7440-66-6	Zinc	110		DE	MS
57-12-5	Cyanide				

Color Before: BROWN Clarity Before: Texture: FINE

Color After: BROWN Clarity After: CLEAR Artifacts:

Comments:
E: The reported value is estimated due to the presence of interference.

USEPA - CLP
1B-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MF9K15

Lab Name: ALS Environmental Contract: EPW09036

Lab Code: DATAC Case No.: 45299 Mod. Ref. No.: SDG No.: MF9K15

Matrix: Soil Lab Sample ID: 1516423001

% Solids: 95.7 Date Received: 06/13/2015

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	3560		*	P
7440-36-0	Antimony				
7440-38-2	Arsenic				
7440-39-3	Barium				
7440-41-7	Beryllium				
7440-43-9	Cadmium				
7440-70-2	Calcium	1970			P
7440-47-3	Chromium				
7440-48-4	Cobalt				
7440-50-8	Copper				
7439-89-6	Iron	6510			P
7439-92-1	Lead				
7439-95-4	Magnesium	569			P
7439-96-5	Manganese	250			P
7439-97-6	Mercury				
7440-02-0	Nickel				
7440-09-7	Potassium	682			P
7782-49-2	Selenium				
7440-22-4	Silver				
7440-23-5	Sodium	26.1	J		P
7440-28-0	Thallium				
7440-62-2	Vanadium				
7440-66-6	Zinc				
57-12-5	Cyanide				

Color Before: BROWN Clarity Before: Texture: FINE

Color After: YELLOW Clarity After: CLEAR Artifacts: No

Comments:

USEPA - CLP
1A-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MF9K16

Lab Name: ALS Environmental Contract: EPW09036

Lab Code: DATAC Case No.: 45299 Mod. Ref. No.: SDG No.: MF9K15

Matrix: Soil Lab Sample ID: 1516423002

% Solids: 97.6 Date Received: 06/13/2015

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				
7440-36-0	Antimony	0.069	J	DN	MS
7440-38-2	Arsenic	1.4		D	MS
7440-39-3	Barium	49.9		D	MS
7440-41-7	Beryllium	0.20	J	D	MS
7440-43-9	Cadmium	0.37	J	D	MS
7440-70-2	Calcium				
7440-47-3	Chromium	6.6		D	MS
7440-48-4	Cobalt	2.0		D	MS
7440-50-8	Copper	18.3		D	MS
7439-89-6	Iron				
7439-92-1	Lead	39.1		D	MS
7439-95-4	Magnesium				
7439-96-5	Manganese				
7439-97-6	Mercury	0.070	J		CV
7440-02-0	Nickel	4.3		D	MS
7440-09-7	Potassium				
7782-49-2	Selenium	2.4	U	D	MS
7440-22-4	Silver	0.076	J	D	MS
7440-23-5	Sodium				
7440-28-0	Thallium	0.061	J	D	MS
7440-62-2	Vanadium	9.7		D	MS
7440-66-6	Zinc	100		DE	MS
57-12-5	Cyanide				

Color Before: BROWN Clarity Before: Texture: FINE

Color After: BROWN Clarity After: CLEAR Artifacts:

Comments:
E: The reported value is estimated due to the presence of interference.

USEPA - CLP
1B-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MF9K16

Lab Name: ALS Environmental Contract: EPW09036

Lab Code: DATAC Case No.: 45299 Mod. Ref. No.: SDG No.: MF9K15

Matrix: Soil Lab Sample ID: 1516423002

% Solids: 97.6 Date Received: 06/13/2015

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	3100		*	P
7440-36-0	Antimony				
7440-38-2	Arsenic				
7440-39-3	Barium				
7440-41-7	Beryllium				
7440-43-9	Cadmium				
7440-70-2	Calcium	1510			P
7440-47-3	Chromium				
7440-48-4	Cobalt				
7440-50-8	Copper				
7439-89-6	Iron	4930			P
7439-92-1	Lead				
7439-95-4	Magnesium	523			P
7439-96-5	Manganese	139			P
7439-97-6	Mercury				
7440-02-0	Nickel				
7440-09-7	Potassium	497			P
7782-49-2	Selenium				
7440-22-4	Silver				
7440-23-5	Sodium	14.0	J		P
7440-28-0	Thallium				
7440-62-2	Vanadium				
7440-66-6	Zinc				
57-12-5	Cyanide				

Color Before: BROWN Clarity Before: Texture: FINE

Color After: YELLOW Clarity After: CLEAR Artifacts: No

Comments:

USEPA - CLP
1A-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
MF9K17

Lab Name: ALS Environmental Contract: EPW09036

Lab Code: DATAC Case No.: 45299 Mod. Ref. No.: SDG No.: MF9K15

Matrix: Soil Lab Sample ID: 1516423003

% Solids: 95.8 Date Received: 06/13/2015

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				
7440-36-0	Antimony	0.050	J	DN	MS
7440-38-2	Arsenic	3.0		D	MS
7440-39-3	Barium	43.3		D	MS
7440-41-7	Beryllium	0.22	J	D	MS
7440-43-9	Cadmium	0.24	J	D	MS
7440-70-2	Calcium				
7440-47-3	Chromium	7.3		D	MS
7440-48-4	Cobalt	2.6		D	MS
7440-50-8	Copper	41.1		D	MS
7439-89-6	Iron				
7439-92-1	Lead	24.2		D	MS
7439-95-4	Magnesium				
7439-96-5	Manganese				
7439-97-6	Mercury	0.032	J		CV
7440-02-0	Nickel	4.5		D	MS
7440-09-7	Potassium				
7782-49-2	Selenium	2.3	U	D	MS
7440-22-4	Silver	0.047	J	D	MS
7440-23-5	Sodium				
7440-28-0	Thallium	0.062	J	D	MS
7440-62-2	Vanadium	11.2		D	MS
7440-66-6	Zinc	65.0		DE	MS
57-12-5	Cyanide				

Color Before: BROWN Clarity Before: Texture: FINE

Color After: BROWN Clarity After: CLEAR Artifacts:

Comments:
E: The reported value is estimated due to the presence of interference.

USEPA - CLP
1B-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MF9K17

Lab Name: ALS Environmental Contract: EPW09036

Lab Code: DATAC Case No.: 45299 Mod. Ref. No.: SDG No.: MF9K15

Matrix: Soil Lab Sample ID: 1516423003

% Solids: 95.8 Date Received: 06/13/2015

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	2810		*	P
7440-36-0	Antimony				
7440-38-2	Arsenic				
7440-39-3	Barium				
7440-41-7	Beryllium				
7440-43-9	Cadmium				
7440-70-2	Calcium	6540			P
7440-47-3	Chromium				
7440-48-4	Cobalt				
7440-50-8	Copper				
7439-89-6	Iron	6500			P
7439-92-1	Lead				
7439-95-4	Magnesium	3030			P
7439-96-5	Manganese	289			P
7439-97-6	Mercury				
7440-02-0	Nickel				
7440-09-7	Potassium	579			P
7782-49-2	Selenium				
7440-22-4	Silver				
7440-23-5	Sodium	19.5	J		P
7440-28-0	Thallium				
7440-62-2	Vanadium				
7440-66-6	Zinc				
57-12-5	Cyanide				

Color Before: BROWN Clarity Before: Texture: FINE

Color After: YELLOW Clarity After: CLEAR Artifacts: No

Comments:

USEPA - CLP
1A-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MF9K19

Lab Name: ALS Environmental Contract: EPW09036

Lab Code: DATAC Case No.: 45299 Mod. Ref. No.: SDG No.: MF9K15

Matrix: Soil Lab Sample ID: 1516423004

% Solids: 96.0 Date Received: 06/13/2015

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				
7440-36-0	Antimony	0.045	J	DN	MS
7440-38-2	Arsenic	1.6		D	MS
7440-39-3	Barium	57.1		D	MS
7440-41-7	Beryllium	0.32	J	D	MS
7440-43-9	Cadmium	0.14	J	D	MS
7440-70-2	Calcium				
7440-47-3	Chromium	9.5		D	MS
7440-48-4	Cobalt	2.7		D	MS
7440-50-8	Copper	27.8		D	MS
7439-89-6	Iron				
7439-92-1	Lead	14.5		D	MS
7439-95-4	Magnesium				
7439-96-5	Manganese				
7439-97-6	Mercury	0.013	J		CV
7440-02-0	Nickel	5.4		D	MS
7440-09-7	Potassium				
7782-49-2	Selenium	2.4	U	D	MS
7440-22-4	Silver	0.021	J	D	MS
7440-23-5	Sodium				
7440-28-0	Thallium	0.065	J	D	MS
7440-62-2	Vanadium	13.8		D	MS
7440-66-6	Zinc	54.9		DE	MS
57-12-5	Cyanide				

Color Before: BROWN Clarity Before: Texture: FINE

Color After: BROWN Clarity After: CLEAR Artifacts:

Comments:
E: The reported value is estimated due to the presence of interference.

USEPA - CLP
1B-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MF9K19

Lab Name: ALS Environmental Contract: EPW09036

Lab Code: DATAC Case No.: 45299 Mod. Ref. No.: SDG No.: MF9K15

Matrix: Soil Lab Sample ID: 1516423004

% Solids: 96.0 Date Received: 06/13/2015

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	3540		*	P
7440-36-0	Antimony				
7440-38-2	Arsenic				
7440-39-3	Barium				
7440-41-7	Beryllium				
7440-43-9	Cadmium				
7440-70-2	Calcium	985			P
7440-47-3	Chromium				
7440-48-4	Cobalt				
7440-50-8	Copper				
7439-89-6	Iron	8060			P
7439-92-1	Lead				
7439-95-4	Magnesium	504			P
7439-96-5	Manganese	147			P
7439-97-6	Mercury				
7440-02-0	Nickel				
7440-09-7	Potassium	810			P
7782-49-2	Selenium				
7440-22-4	Silver				
7440-23-5	Sodium	23.1	J		P
7440-28-0	Thallium				
7440-62-2	Vanadium				
7440-66-6	Zinc				
57-12-5	Cyanide				

Color Before: BROWN Clarity Before: Texture: FINE

Color After: YELLOW Clarity After: CLEAR Artifacts: No

Comments:

USEPA - CLP
1A-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
MF9K20

Lab Name: ALS Environmental Contract: EPW09036

Lab Code: DATAC Case No.: 45299 Mod. Ref. No.: SDG No.: MF9K15

Matrix: Soil Lab Sample ID: 1516423005

% Solids: 99.1 Date Received: 06/13/2015

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				
7440-36-0	Antimony	0.054	J	DN	MS
7440-38-2	Arsenic	1.2		D	MS
7440-39-3	Barium	28.9		D	MS
7440-41-7	Beryllium	0.16	J	D	MS
7440-43-9	Cadmium	0.17	J	D	MS
7440-70-2	Calcium				
7440-47-3	Chromium	5.9		D	MS
7440-48-4	Cobalt	1.9		D	MS
7440-50-8	Copper	14.0		D	MS
7439-89-6	Iron				
7439-92-1	Lead	20.3		D	MS
7439-95-4	Magnesium				
7439-96-5	Manganese				
7439-97-6	Mercury	0.042	J		CV
7440-02-0	Nickel	3.2		D	MS
7440-09-7	Potassium				
7782-49-2	Selenium	1.9	U	D	MS
7440-22-4	Silver	0.049	J	D	MS
7440-23-5	Sodium				
7440-28-0	Thallium	0.051	J	D	MS
7440-62-2	Vanadium	8.4		D	MS
7440-66-6	Zinc	51.2		DE	MS
57-12-5	Cyanide				

Color Before: BROWN Clarity Before: Texture: FINE

Color After: BROWN Clarity After: CLEAR Artifacts:

Comments:
E: The reported value is estimated due to the presence of interference.

USEPA - CLP
1B-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MF9K20

Lab Name: ALS Environmental Contract: EPW09036

Lab Code: DATAC Case No.: 45299 Mod. Ref. No.: SDG No.: MF9K15

Matrix: Soil Lab Sample ID: 1516423005

% Solids: 99.1 Date Received: 06/13/2015

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	2860		*	P
7440-36-0	Antimony				
7440-38-2	Arsenic				
7440-39-3	Barium				
7440-41-7	Beryllium				
7440-43-9	Cadmium				
7440-70-2	Calcium	851			P
7440-47-3	Chromium				
7440-48-4	Cobalt				
7440-50-8	Copper				
7439-89-6	Iron	4390			P
7439-92-1	Lead				
7439-95-4	Magnesium	425			P
7439-96-5	Manganese	135			P
7439-97-6	Mercury				
7440-02-0	Nickel				
7440-09-7	Potassium	457			P
7782-49-2	Selenium				
7440-22-4	Silver				
7440-23-5	Sodium	12.3	J		P
7440-28-0	Thallium				
7440-62-2	Vanadium				
7440-66-6	Zinc				
57-12-5	Cyanide				

Color Before: BROWN Clarity Before: Texture: FINE

Color After: YELLOW Clarity After: CLEAR Artifacts: No

Comments:

USEPA - CLP
1A-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
MF9K21

Lab Name: ALS Environmental Contract: EPW09036

Lab Code: DATAC Case No.: 45299 Mod. Ref. No.: SDG No.: MF9K15

Matrix: Soil Lab Sample ID: 1516423006

% Solids: 96.3 Date Received: 06/13/2015

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				
7440-36-0	Antimony	0.053	J	DN	MS
7440-38-2	Arsenic	1.3		D	MS
7440-39-3	Barium	31.5		D	MS
7440-41-7	Beryllium	0.18	J	D	MS
7440-43-9	Cadmium	0.18	J	D	MS
7440-70-2	Calcium				
7440-47-3	Chromium	5.3		D	MS
7440-48-4	Cobalt	2.4		D	MS
7440-50-8	Copper	23.9		D	MS
7439-89-6	Iron				
7439-92-1	Lead	12.5		D	MS
7439-95-4	Magnesium				
7439-96-5	Manganese				
7439-97-6	Mercury	0.018	J		CV
7440-02-0	Nickel	2.8		D	MS
7440-09-7	Potassium				
7782-49-2	Selenium	2.2	U	D	MS
7440-22-4	Silver	0.019	J	D	MS
7440-23-5	Sodium				
7440-28-0	Thallium	0.049	J	D	MS
7440-62-2	Vanadium	8.3		D	MS
7440-66-6	Zinc	34.7		DE	MS
57-12-5	Cyanide				

Color Before: BROWN Clarity Before: Texture: FINE

Color After: BROWN Clarity After: CLEAR Artifacts:

Comments:
E: The reported value is estimated due to the presence of interference.

USEPA - CLP
1B-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MF9K21

Lab Name: ALS Environmental Contract: EPW09036

Lab Code: DATAC Case No.: 45299 Mod. Ref. No.: SDG No.: MF9K15

Matrix: Soil Lab Sample ID: 1516423006

% Solids: 96.3 Date Received: 06/13/2015

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	2100		*	P
7440-36-0	Antimony				
7440-38-2	Arsenic				
7440-39-3	Barium				
7440-41-7	Beryllium				
7440-43-9	Cadmium				
7440-70-2	Calcium	586			P
7440-47-3	Chromium				
7440-48-4	Cobalt				
7440-50-8	Copper				
7439-89-6	Iron	4810			P
7439-92-1	Lead				
7439-95-4	Magnesium	255	J		P
7439-96-5	Manganese	192			P
7439-97-6	Mercury				
7440-02-0	Nickel				
7440-09-7	Potassium	426	J		P
7782-49-2	Selenium				
7440-22-4	Silver				
7440-23-5	Sodium	9.5	J		P
7440-28-0	Thallium				
7440-62-2	Vanadium				
7440-66-6	Zinc				
57-12-5	Cyanide				

Color Before: BROWN Clarity Before: Texture: FINE

Color After: YELLOW Clarity After: CLEAR Artifacts: No

Comments:

USEPA - CLP
1A-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
MF9K22

Lab Name: ALS Environmental Contract: EPW09036

Lab Code: DATAC Case No.: 45299 Mod. Ref. No.: SDG No.: MF9K15

Matrix: Soil Lab Sample ID: 1516423007

% Solids: 97.9 Date Received: 06/13/2015

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				
7440-36-0	Antimony	0.064	J	DN	MS
7440-38-2	Arsenic	1.3		D	MS
7440-39-3	Barium	41.0		D	MS
7440-41-7	Beryllium	0.20	J	D	MS
7440-43-9	Cadmium	0.24	J	D	MS
7440-70-2	Calcium				
7440-47-3	Chromium	6.3		D	MS
7440-48-4	Cobalt	2.3		D	MS
7440-50-8	Copper	11.0		D	MS
7439-89-6	Iron				
7439-92-1	Lead	30.2		D	MS
7439-95-4	Magnesium				
7439-96-5	Manganese				
7439-97-6	Mercury	0.032	J		CV
7440-02-0	Nickel	3.6		D	MS
7440-09-7	Potassium				
7782-49-2	Selenium	1.8	U	D	MS
7440-22-4	Silver	0.027	J	D	MS
7440-23-5	Sodium				
7440-28-0	Thallium	0.049	J	D	MS
7440-62-2	Vanadium	8.1		D	MS
7440-66-6	Zinc	92.5		DE	MS
57-12-5	Cyanide				

Color Before: BROWN Clarity Before: Texture: FINE

Color After: BROWN Clarity After: CLEAR Artifacts:

Comments:
E: The reported value is estimated due to the presence of interference.

USEPA - CLP
1B-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MF9K22

Lab Name: ALS Environmental Contract: EPW09036

Lab Code: DATAC Case No.: 45299 Mod. Ref. No.: SDG No.: MF9K15

Matrix: Soil Lab Sample ID: 1516423007

% Solids: 97.9 Date Received: 06/13/2015

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	2190		*	P
7440-36-0	Antimony				
7440-38-2	Arsenic				
7440-39-3	Barium				
7440-41-7	Beryllium				
7440-43-9	Cadmium				
7440-70-2	Calcium	1050			P
7440-47-3	Chromium				
7440-48-4	Cobalt				
7440-50-8	Copper				
7439-89-6	Iron	4920			P
7439-92-1	Lead				
7439-95-4	Magnesium	382	J		P
7439-96-5	Manganese	200			P
7439-97-6	Mercury				
7440-02-0	Nickel				
7440-09-7	Potassium	516			P
7782-49-2	Selenium				
7440-22-4	Silver				
7440-23-5	Sodium	9.2	J		P
7440-28-0	Thallium				
7440-62-2	Vanadium				
7440-66-6	Zinc				
57-12-5	Cyanide				

Color Before: BROWN Clarity Before: Texture: FINE

Color After: YELLOW Clarity After: CLEAR Artifacts: No

Comments:

USEPA - CLP
1A-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MF9K23

Lab Name: ALS Environmental Contract: EPW09036

Lab Code: DATAC Case No.: 45299 Mod. Ref. No.: SDG No.: MF9K15

Matrix: Soil Lab Sample ID: 1516423008

% Solids: 98.6 Date Received: 06/13/2015

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				
7440-36-0	Antimony	0.046	J	DN	MS
7440-38-2	Arsenic	1.3		D	MS
7440-39-3	Barium	46.9		D	MS
7440-41-7	Beryllium	0.29	J	D	MS
7440-43-9	Cadmium	0.12	J	D	MS
7440-70-2	Calcium				
7440-47-3	Chromium	8.3		D	MS
7440-48-4	Cobalt	2.5		D	MS
7440-50-8	Copper	10.3		D	MS
7439-89-6	Iron				
7439-92-1	Lead	12.7		D	MS
7439-95-4	Magnesium				
7439-96-5	Manganese				
7439-97-6	Mercury	0.015	J		CV
7440-02-0	Nickel	4.9		D	MS
7440-09-7	Potassium				
7782-49-2	Selenium	1.9	U	D	MS
7440-22-4	Silver	0.019	J	D	MS
7440-23-5	Sodium				
7440-28-0	Thallium	0.059	J	D	MS
7440-62-2	Vanadium	12.4		D	MS
7440-66-6	Zinc	41.3		DE	MS
57-12-5	Cyanide				

Color Before: BROWN Clarity Before: Texture: FINE

Color After: BROWN Clarity After: CLEAR Artifacts:

Comments:
E: The reported value is estimated due to the presence of interference.

: 088214

USEPA - CLP
1B-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MF9K23

Lab Name: ALS Environmental Contract: EPW09036

Lab Code: DATAC Case No.: 45299 Mod. Ref. No.: SDG No.: MF9K15

Matrix: Soil Lab Sample ID: 1516423008

% Solids: 98.6 Date Received: 06/13/2015

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	3650		*	P
7440-36-0	Antimony				
7440-38-2	Arsenic				
7440-39-3	Barium				
7440-41-7	Beryllium				
7440-43-9	Cadmium				
7440-70-2	Calcium	745			P
7440-47-3	Chromium				
7440-48-4	Cobalt				
7440-50-8	Copper				
7439-89-6	Iron	7260			P
7439-92-1	Lead				
7439-95-4	Magnesium	442	J		P
7439-96-5	Manganese	145			P
7439-97-6	Mercury				
7440-02-0	Nickel				
7440-09-7	Potassium	691			P
7782-49-2	Selenium				
7440-22-4	Silver				
7440-23-5	Sodium	19.7	J		P
7440-28-0	Thallium				
7440-62-2	Vanadium				
7440-66-6	Zinc				
57-12-5	Cyanide				

Color Before: BROWN Clarity Before: Texture: FINE

Color After: YELLOW Clarity After: CLEAR Artifacts: No

Comments:

USEPA - CLP
1A-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MF9K25

Lab Name: ALS Environmental Contract: EPW09036

Lab Code: DATAC Case No.: 45299 Mod. Ref. No.: SDG No.: MF9K15

Matrix: Soil Lab Sample ID: 1516423009

% Solids: 98.5 Date Received: 06/13/2015

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				
7440-36-0	Antimony	0.058	J	DN	MS
7440-38-2	Arsenic	2.3		D	MS
7440-39-3	Barium	37.0		D	MS
7440-41-7	Beryllium	0.23	J	D	MS
7440-43-9	Cadmium	0.17	J	D	MS
7440-70-2	Calcium				
7440-47-3	Chromium	7.2		D	MS
7440-48-4	Cobalt	2.5		D	MS
7440-50-8	Copper	11.2		D	MS
7439-89-6	Iron				
7439-92-1	Lead	19.4		D	MS
7439-95-4	Magnesium				
7439-96-5	Manganese				
7439-97-6	Mercury	0.018	J		CV
7440-02-0	Nickel	4.5		D	MS
7440-09-7	Potassium				
7782-49-2	Selenium	1.8	U	D	MS
7440-22-4	Silver	0.044	J	D	MS
7440-23-5	Sodium				
7440-28-0	Thallium	0.063	J	D	MS
7440-62-2	Vanadium	10.7		D	MS
7440-66-6	Zinc	53.4		DE	MS
57-12-5	Cyanide				

Color Before: BROWN Clarity Before: Texture: FINE

Color After: BROWN Clarity After: CLEAR Artifacts:

Comments:
E: The reported value is estimated due to the presence of interference.

USEPA - CLP
1B-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MF9K25

Lab Name: ALS Environmental Contract: EPW09036

Lab Code: DATAC Case No.: 45299 Mod. Ref. No.: SDG No.: MF9K15

Matrix: Soil Lab Sample ID: 1516423009

% Solids: 98.5 Date Received: 06/13/2015

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	3580		*	P
7440-36-0	Antimony				
7440-38-2	Arsenic				
7440-39-3	Barium				
7440-41-7	Beryllium				
7440-43-9	Cadmium				
7440-70-2	Calcium	3770			P
7440-47-3	Chromium				
7440-48-4	Cobalt				
7440-50-8	Copper				
7439-89-6	Iron	6680			P
7439-92-1	Lead				
7439-95-4	Magnesium	1870			P
7439-96-5	Manganese	217			P
7439-97-6	Mercury				
7440-02-0	Nickel				
7440-09-7	Potassium	849			P
7782-49-2	Selenium				
7440-22-4	Silver				
7440-23-5	Sodium	19.4	J		P
7440-28-0	Thallium				
7440-62-2	Vanadium				
7440-66-6	Zinc				
57-12-5	Cyanide				

Color Before: BROWN Clarity Before: Texture: FINE

Color After: YELLOW Clarity After: CLEAR Artifacts: No

Comments:

USEPA - CLP
1A-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
MF9K26

Lab Name: ALS Environmental Contract: EPW09036

Lab Code: DATAC Case No.: 45299 Mod. Ref. No.: SDG No.: MF9K15

Matrix: Soil Lab Sample ID: 1516423010

% Solids: 97.6 Date Received: 06/13/2015

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				
7440-36-0	Antimony	0.080	J	DN	MS
7440-38-2	Arsenic	1.2		D	MS
7440-39-3	Barium	30.3		D	MS
7440-41-7	Beryllium	0.17	J	D	MS
7440-43-9	Cadmium	0.14	J	D	MS
7440-70-2	Calcium				
7440-47-3	Chromium	4.8		D	MS
7440-48-4	Cobalt	2.2		D	MS
7440-50-8	Copper	10.8		D	MS
7439-89-6	Iron				
7439-92-1	Lead	11.5		D	MS
7439-95-4	Magnesium				
7439-96-5	Manganese				
7439-97-6	Mercury	0.015	J		CV
7440-02-0	Nickel	2.6		D	MS
7440-09-7	Potassium				
7782-49-2	Selenium	1.8	U	D	MS
7440-22-4	Silver	0.019	J	D	MS
7440-23-5	Sodium				
7440-28-0	Thallium	0.049	J	D	MS
7440-62-2	Vanadium	7.5		D	MS
7440-66-6	Zinc	30.4		DE	MS
57-12-5	Cyanide				

Color Before: BROWN Clarity Before: Texture: FINE

Color After: BROWN Clarity After: CLEAR Artifacts:

Comments:
E: The reported value is estimated due to the presence of interference.

USEPA - CLP
1B-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MF9K26

Lab Name: ALS Environmental Contract: EPW09036

Lab Code: DATAC Case No.: 45299 Mod. Ref. No.: SDG No.: MF9K15

Matrix: Soil Lab Sample ID: 1516423010

% Solids: 97.6 Date Received: 06/13/2015

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	2000		*	P
7440-36-0	Antimony				
7440-38-2	Arsenic				
7440-39-3	Barium				
7440-41-7	Beryllium				
7440-43-9	Cadmium				
7440-70-2	Calcium	643			P
7440-47-3	Chromium				
7440-48-4	Cobalt				
7440-50-8	Copper				
7439-89-6	Iron	4230			P
7439-92-1	Lead				
7439-95-4	Magnesium	272	J		P
7439-96-5	Manganese	178			P
7439-97-6	Mercury				
7440-02-0	Nickel				
7440-09-7	Potassium	462			P
7782-49-2	Selenium				
7440-22-4	Silver				
7440-23-5	Sodium	6.4	J		P
7440-28-0	Thallium				
7440-62-2	Vanadium				
7440-66-6	Zinc				
57-12-5	Cyanide				

Color Before: BROWN Clarity Before: Texture: FINE

Color After: YELLOW Clarity After: CLEAR Artifacts: No

Comments:

USEPA - CLP
1A-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MF9K27

Lab Name: ALS Environmental Contract: EPW09036

Lab Code: DATAC Case No.: 45299 Mod. Ref. No.: SDG No.: MF9K15

Matrix: Soil Lab Sample ID: 1516423013

% Solids: 98.7 Date Received: 06/13/2015

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				
7440-36-0	Antimony	0.052	J	DN	MS
7440-38-2	Arsenic	1.5		D	MS
7440-39-3	Barium	35.8		D	MS
7440-41-7	Beryllium	0.22	J	D	MS
7440-43-9	Cadmium	0.14	J	D	MS
7440-70-2	Calcium				
7440-47-3	Chromium	7.0		D	MS
7440-48-4	Cobalt	2.8		D	MS
7440-50-8	Copper	11.5		D	MS
7439-89-6	Iron				
7439-92-1	Lead	16.7		D	MS
7439-95-4	Magnesium				
7439-96-5	Manganese				
7439-97-6	Mercury	0.018	J		CV
7440-02-0	Nickel	4.0		D	MS
7440-09-7	Potassium				
7782-49-2	Selenium	2.2	U	D	MS
7440-22-4	Silver	0.029	J	D	MS
7440-23-5	Sodium				
7440-28-0	Thallium	0.062	J	D	MS
7440-62-2	Vanadium	10.9		D	MS
7440-66-6	Zinc	42.6		DE	MS
57-12-5	Cyanide				

Color Before: BROWN Clarity Before: Texture: FINE

Color After: BROWN Clarity After: CLEAR Artifacts:

Comments:
E: The reported value is estimated due to the presence of interference.

USEPA - CLP
1B-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MF9K27

Lab Name: ALS Environmental Contract: EPW09036

Lab Code: DATAC Case No.: 45299 Mod. Ref. No.: SDG No.: MF9K15

Matrix: Soil Lab Sample ID: 1516423013

% Solids: 98.7 Date Received: 06/13/2015

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	3000		*	P
7440-36-0	Antimony				
7440-38-2	Arsenic				
7440-39-3	Barium				
7440-41-7	Beryllium				
7440-43-9	Cadmium				
7440-70-2	Calcium	1710			P
7440-47-3	Chromium				
7440-48-4	Cobalt				
7440-50-8	Copper				
7439-89-6	Iron	6800			P
7439-92-1	Lead				
7439-95-4	Magnesium	827			P
7439-96-5	Manganese	203			P
7439-97-6	Mercury				
7440-02-0	Nickel				
7440-09-7	Potassium	684			P
7782-49-2	Selenium				
7440-22-4	Silver				
7440-23-5	Sodium	14.9	J		P
7440-28-0	Thallium				
7440-62-2	Vanadium				
7440-66-6	Zinc				
57-12-5	Cyanide				

Color Before: BROWN Clarity Before: Texture: FINE

Color After: YELLOW Clarity After: CLEAR Artifacts: No

Comments:

USEPA - CLP
1A-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MF9K28

Lab Name: ALS Environmental Contract: EPW09036

Lab Code: DATAC Case No.: 45299 Mod. Ref. No.: SDG No.: MF9K15

Matrix: Soil Lab Sample ID: 1516423014

% Solids: 98.6 Date Received: 06/13/2015

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				
7440-36-0	Antimony	0.052	J	DN	MS
7440-38-2	Arsenic	1.3		D	MS
7440-39-3	Barium	38.3		D	MS
7440-41-7	Beryllium	0.19	J	D	MS
7440-43-9	Cadmium	0.23	J	D	MS
7440-70-2	Calcium				
7440-47-3	Chromium	6.3		D	MS
7440-48-4	Cobalt	2.4		D	MS
7440-50-8	Copper	11.5		D	MS
7439-89-6	Iron				
7439-92-1	Lead	29.4		D	MS
7439-95-4	Magnesium				
7439-96-5	Manganese				
7439-97-6	Mercury	0.12			CV
7440-02-0	Nickel	3.6		D	MS
7440-09-7	Potassium				
7782-49-2	Selenium	2.1	U	D	MS
7440-22-4	Silver	0.028	J	D	MS
7440-23-5	Sodium				
7440-28-0	Thallium	0.048	J	D	MS
7440-62-2	Vanadium	8.0		D	MS
7440-66-6	Zinc	83.2		DE	MS
57-12-5	Cyanide				

Color Before: BROWN Clarity Before: Texture: FINE

Color After: BROWN Clarity After: CLEAR Artifacts:

Comments:
E: The reported value is estimated due to the presence of interference.

USEPA - CLP
1B-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MF9K28

Lab Name: ALS Environmental Contract: EPW09036

Lab Code: DATAC Case No.: 45299 Mod. Ref. No.: SDG No.: MF9K15

Matrix: Soil Lab Sample ID: 1516423014

% Solids: 98.6 Date Received: 06/13/2015

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	2220		*	P
7440-36-0	Antimony				
7440-38-2	Arsenic				
7440-39-3	Barium				
7440-41-7	Beryllium				
7440-43-9	Cadmium				
7440-70-2	Calcium	786			P
7440-47-3	Chromium				
7440-48-4	Cobalt				
7440-50-8	Copper				
7439-89-6	Iron	4550			P
7439-92-1	Lead				
7439-95-4	Magnesium	316	J		P
7439-96-5	Manganese	175			P
7439-97-6	Mercury				
7440-02-0	Nickel				
7440-09-7	Potassium	430			P
7782-49-2	Selenium				
7440-22-4	Silver				
7440-23-5	Sodium	8.7	J		P
7440-28-0	Thallium				
7440-62-2	Vanadium				
7440-66-6	Zinc				
57-12-5	Cyanide				

Color Before: BROWN Clarity Before: Texture: FINE

Color After: YELLOW Clarity After: CLEAR Artifacts: No

Comments:

USEPA - CLP
1A-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MF9K29

Lab Name: ALS Environmental Contract: EPW09036

Lab Code: DATAC Case No.: 45299 Mod. Ref. No.: SDG No.: MF9K15

Matrix: Soil Lab Sample ID: 1516423015

% Solids: 99.3 Date Received: 06/13/2015

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				
7440-36-0	Antimony	0.042	J	DN	MS
7440-38-2	Arsenic	1.3		D	MS
7440-39-3	Barium	31.7		D	MS
7440-41-7	Beryllium	0.16	J	D	MS
7440-43-9	Cadmium	0.12	J	D	MS
7440-70-2	Calcium				
7440-47-3	Chromium	5.3		D	MS
7440-48-4	Cobalt	2.7		D	MS
7440-50-8	Copper	8.4		D	MS
7439-89-6	Iron				
7439-92-1	Lead	11.8		D	MS
7439-95-4	Magnesium				
7439-96-5	Manganese				
7439-97-6	Mercury	0.020	J		CV
7440-02-0	Nickel	2.9		D	MS
7440-09-7	Potassium				
7782-49-2	Selenium	1.8	U	D	MS
7440-22-4	Silver	0.017	J	D	MS
7440-23-5	Sodium				
7440-28-0	Thallium	0.045	J	D	MS
7440-62-2	Vanadium	7.9		D	MS
7440-66-6	Zinc	62.9		DE	MS
57-12-5	Cyanide				

Color Before: BROWN Clarity Before: Texture: FINE

Color After: BROWN Clarity After: CLEAR Artifacts:

Comments:
E: The reported value is estimated due to the presence of interference.

USEPA - CLP
1B-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MF9K29

Lab Name: ALS Environmental Contract: EPW09036

Lab Code: DATAC Case No.: 45299 Mod. Ref. No.: SDG No.: MF9K15

Matrix: Soil Lab Sample ID: 1516423015

% Solids: 99.3 Date Received: 06/13/2015

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	2350		*	P
7440-36-0	Antimony				
7440-38-2	Arsenic				
7440-39-3	Barium				
7440-41-7	Beryllium				
7440-43-9	Cadmium				
7440-70-2	Calcium	601			P
7440-47-3	Chromium				
7440-48-4	Cobalt				
7440-50-8	Copper				
7439-89-6	Iron	5370			P
7439-92-1	Lead				
7439-95-4	Magnesium	287	J		P
7439-96-5	Manganese	219			P
7439-97-6	Mercury				
7440-02-0	Nickel				
7440-09-7	Potassium	499			P
7782-49-2	Selenium				
7440-22-4	Silver				
7440-23-5	Sodium	8.7	J		P
7440-28-0	Thallium				
7440-62-2	Vanadium				
7440-66-6	Zinc				
57-12-5	Cyanide				

Color Before: BROWN Clarity Before: Texture: FINE

Color After: YELLOW Clarity After: CLEAR Artifacts: No

Comments:

USEPA - CLP
2A-IN
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: ALS Environmental Contract: EPW09036

Lab Code: DATAC Case No.: 45299 Mod. Ref. No.: SDG No.: MF9K15

Initial Calibration Verification Source: EPA ICV1 (0307)

Continuing Calibration Verification Source: 28405

Concentration Units: ug/L

	Initial Calibration Verification			Continuing Calibration Verification					M
Analyte	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Aluminum									
Antimony	199	188	95	2500	2520	101	2550	102	MS
Arsenic	200	200	100	2500	2480	99	2510	100	MS
Barium	99	99.5	101	2500	2640	106	2580	103	MS
Beryllium	99	104	105	2500	2540	102	2610	105	MS
Cadmium	99	99.2	100	2500	2580	103	2520	101	MS
Calcium									
Chromium	98	95.5	97	2500	2540	102	2500	100	MS
Cobalt	100	98.5	99	2500	2530	101	2490	100	MS
Copper	98	101	103	2500	2410	96	2420	97	MS
Iron									
Lead	200	195	98	2500	2610	105	2630	105	MS
Magnesium									
Manganese									
Mercury									
Nickel	101	100	99	2500	2510	100	2470	99	MS
Potassium									
Selenium	206	205	100	250	253	101	252	101	MS
Silver	100	99.6	100	250	259	104	258	103	MS
Sodium									
Thallium	206	201	98	2500	2650	106	2660	107	MS
Vanadium	100	97.4	97	2500	2650	106	2650	106	MS
Zinc	205	209	102	2500	2390	96	2320	93	MS
Cyanide									

(1) Control Limits: Mercury 85-115; Other Metals 90-110; Cyanide 85-115

USEPA - CLP
2A-IN
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: ALS Environmental Contract: EPW09036

Lab Code: DATAC Case No.: 45299 Mod. Ref. No.: SDG No.: MF9K15

Initial Calibration Verification Source:

Continuing Calibration Verification Source: 28405

Concentration Units: ug/L

	Initial Calibration Verification			Continuing Calibration Verification					M
Analyte	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Aluminum									
Antimony				2500	2540	102			MS
Arsenic				2500	2470	99			MS
Barium				2500	2530	101			MS
Beryllium				2500	2580	103			MS
Cadmium				2500	2480	99			MS
Calcium									
Chromium				2500	2460	98			MS
Cobalt				2500	2470	99			MS
Copper				2500	2400	96			MS
Iron									
Lead				2500	2610	104			MS
Magnesium									
Manganese									
Mercury									
Nickel				2500	2450	98			MS
Potassium									
Selenium				250	249	99			MS
Silver				250	254	102			MS
Sodium									
Thallium				2500	2640	106			MS
Vanadium				2500	2610	104			MS
Zinc				2500	2280	91			MS
Cyanide									

(1) Control Limits: Mercury 85-115; Other Metals 90-110; Cyanide 85-115

USEPA - CLP
2A-IN
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: ALS Environmental Contract: EPW09036

Lab Code: DATAC Case No.: 45299 Mod. Ref. No.: SDG No.: MF9K15

Initial Calibration Verification Source: EPA ICV-1(0307)

Continuing Calibration Verification Source: 28501

Concentration Units: ug/L

	Initial Calibration Verification			Continuing Calibration Verification					M
Analyte	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Aluminum	2521	2560	102	250000	246000	98	253000	101	P
Antimony									
Arsenic									
Barium									
Beryllium									
Cadmium									
Calcium	10026	10700	106	250000	251000	101	255000	102	P
Chromium									
Cobalt									
Copper									
Iron	5082	5330	105	250000	253000	101	256000	102	P
Lead									
Magnesium	6074	6150	101	250000	248000	99	251000	100	P
Manganese	499	509	102	25000	23900	96	24500	98	P
Mercury									
Nickel									
Potassium	10021	9890	99	250000	249000	100	253000	101	P
Selenium									
Silver									
Sodium	10097	10600	105	250000	255000	102	257000	103	P
Thallium									
Vanadium									
Zinc									
Cyanide									

(1) Control Limits: Mercury 85-115; Other Metals 90-110; Cyanide 85-115

USEPA - CLP
2A-IN
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: ALS Environmental Contract: EPW09036

Lab Code: DATAC Case No.: 45299 Mod. Ref. No.: SDG No.: MF9K15

Initial Calibration Verification Source: EPA ICV5-0508

Continuing Calibration Verification Source: ALS2 28538

Concentration Units: ug/L

	Initial Calibration Verification			Continuing Calibration Verification					M
Analyte	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Aluminum									
Antimony									
Arsenic									
Barium									
Beryllium									
Cadmium									
Calcium									
Chromium									
Cobalt									
Copper									
Iron									
Lead									
Magnesium									
Manganese									
Mercury	4.0	3.9	99	5	5.1	102	5.1	102	CV
Nickel									
Potassium									
Selenium									
Silver									
Sodium									
Thallium									
Vanadium									
Zinc									
Cyanide									

(1) Control Limits: Mercury 85-115; Other Metals 90-110; Cyanide 85-115

USEPA - CLP
3-IN
BLANKS

Lab Name: ALS Environmental Contract: EPW09036

Lab Code: DATAC Case No.: 45299 Mod. Ref. No.: SDG No.: MF9K15

Preparation Blank Matrix (soil/water/wipe/filter): Soil

Preparation Blank Concentration Units (ug/L, ug or mg/kg): mg/kg

Analyte	Initial Calibration Blank (ug/L)		Continuing Calibration Blank (ug/L)						Preparation Blank		
		C	1	C	2	C	3	C		C	M
Aluminum											
Antimony	0.59	J	1.0	J	0.69	J	0.96	J	0.12	J	MS
Arsenic	5.0	U	5.0	U	5.0	U	5.0	U	0.50	U	MS
Barium	50.0	U	0.32	J	0.16	J	0.20	J	0.022	J	MS
Beryllium	5.0	U	0.42	J	0.25	J	0.31	J	0.029	J	MS
Cadmium	5.0	U	0.30	J	0.14	J	0.19	J	0.020	J	MS
Calcium											
Chromium	10.0	U	0.29	J	0.13	J	0.15	J	-0.018	J	MS
Cobalt	5.0	U	0.31	J	0.15	J	0.20	J	0.018	J	MS
Copper	10.0	U	0.51	J	10.0	U	0.32	J	0.031	J	MS
Iron											
Lead	5.0	U	0.34	J	0.19	J	0.24	J	0.022	J	MS
Magnesium											
Manganese											
Mercury	-0.039	J	-0.017	J	-0.022	J			-0.0020	J	CV
Nickel	5.0	U	0.38	J	0.22	J	0.22	J	0.035	J	MS
Potassium											
Selenium	25.0	U	25.0	U	25.0	U	25.0	U	2.5	U	MS
Silver	0.17	J	0.10	J	0.066	J	0.085	J	0.0089	J	MS
Sodium											
Thallium	0.076	J	0.43	J	0.25	J	0.35	J	0.028	J	MS
Vanadium	25.0	U	0.29	J	25.0	U	0.20	J	2.5	U	MS
Zinc	10.0	U	10.0	U	10.0	U	10.0	U	0.84	J	MS
Cyanide											

USEPA - CLP
3-IN
BLANKS

Lab Name: ALS Environmental Contract: EPW09036

Lab Code: DATAC Case No.: 45299 Mod. Ref. No.: SDG No.: MF9K15

Preparation Blank Matrix (soil/water/wipe/filter): Soil

Preparation Blank Concentration Units (ug/L, ug or mg/kg): mg/kg

Analyte	Initial Calibration Blank (ug/L)		Continuing Calibration Blank (ug/L)						Preparation Blank		
		C	1	C	2	C	3	C		C	M
Aluminum	200	U	200	U	200	U			20.0	U	P
Antimony											
Arsenic											
Barium											
Beryllium											
Cadmium											
Calcium	5000	U	5000	U	5000	U			5.2	J	P
Chromium											
Cobalt											
Copper											
Iron	100	U	100	U	100	U			10.0	U	P
Lead											
Magnesium	5000	U	5000	U	5000	U			500	U	P
Manganese	15.0	U	15.0	U	1.4	J			1.5	U	P
Mercury											
Nickel											
Potassium	5000	U	5000	U	5000	U			500	U	P
Selenium											
Silver											
Sodium	5000	U	23.5	J	27.3	J			2.5	J	P
Thallium											
Vanadium											
Zinc											
Cyanide											

USEPA - CLP
4A-IN
ICP-AES INTERFERENCE CHECK SAMPLE

Lab Name: ALS Environmental Contract: EPW09036

Lab Code: DATAC Case No.: 45299 Mod. Ref. No.: SDG No.: MF9K15

ICP-AES Instrument ID: ICP08 ICSA Source: EPA ICSA (1211)

ICSB Source: EPA ICSB (1211/0710)

Concentration Units: ug/L

Analyte	True		Found			
	Sol. A	Sol. AB	Sol. A	%R	Sol. AB	%R
Aluminum	254900	246800	249000	98	253000	103
Antimony						
Arsenic						
Barium						
Beryllium						
Cadmium						
Calcium	244500	234900	256000	105	257000	110
Chromium						
Cobalt						
Copper						
Iron	100700	99320	102000	101	103000	104
Lead						
Magnesium	255400	248000	259000	102	262000	106
Manganese	7	507	16.1	230	524	103
Nickel						
Potassium	0	0	30.1		11.6	
Selenium						
Silver						
Sodium	0	0	65.4		75.3	
Thallium						
Vanadium						
Zinc						

USEPA - CLP
4B-IN
ICP-MS INTERFERENCE CHECK SAMPLE

Lab Name: ALS Environmental Contract: EPW09036

Lab Code: DATAC Case No.: 45299 Mod. Ref. No.: SDG No.: MF9K15

ICP-MS Instrument ID: ICPM02 ICSA Source: EPA ICSA (0803)

ICSB Source: EPA ICSB (0803)

Concentration Units: ug/L

Analyte	True		Found			
	Sol. A	Sol. AB	Sol. A	%R	Sol. AB	%R
Aluminum						
Antimony	1.5	22	1.3	85	19.6	89
Arsenic	0.1	19	0.31	0	18.5	97
Barium	1.2	22	1.5	126	22.7	103
Beryllium	0	19	0.33		19.3	102
Cadmium	0.7	20	0.23	33	20.0	100
Calcium						
Chromium	21	40	19.1	91	38.9	97
Cobalt	1	20	1.3	130	20.6	103
Copper	8	25	7.4	92	25.3	101
Iron						
Lead	4	25	4.4	110	25.1	100
Magnesium						
Manganese						
Molybdenum						
Nickel	6	24	6.4	106	25.4	106
Potassium						
Selenium	0.3	19	-0.098	0	17.4	91
Silver	0	18	0.044		18.8	104
Sodium						
Thallium	0	21	0.042		21.1	100
Titanium						
Vanadium	0.5	19	-3.0	602	17.4	91
Zinc	11	29	11.4	104	28.1	97

USEPA - CLP
5A-IN
MATRIX SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

MF9K26S

Lab Name: ALS Environmental Contract: EPW09036

Lab Code: DATAC Case No.: 45299 Mod. Ref. No.: SDG No.: MF9K15

Matrix: Soil

% Solids for Sample: 97.6

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

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Aluminum									NR
Antimony	75-125	1.3		0.080	J	7.0	17	N	MS
Arsenic	75-125	3.5		1.2		2.8	82		MS
Barium	75-125	162		30.3		140	94		MS
Beryllium	75-125	3.6		0.17	J	3.5	99		MS
Cadmium	75-125	3.4		0.14	J	3.5	92		MS
Calcium									NR
Chromium	75-125	17.3		4.8		14.0	89		MS
Cobalt	75-125	34.2		2.2		35.1	91		MS
Copper	75-125	27.1		10.8		17.5	93		MS
Iron									NR
Lead		12.6		11.5		1.4	76		MS
Magnesium									NR
Manganese									NR
Mercury	75-125	0.53		0.015	J	0.51	101		CV
Nickel	75-125	35.3		2.6		35.1	93		MS
Potassium									NR
Selenium	75-125	5.7		1.8	U	7.0	81		MS
Silver	75-125	3.4		0.019	J	3.5	97		MS
Sodium									NR
Thallium	75-125	3.3		0.049	J	3.5	92		MS
Vanadium	75-125	41.4		7.5		35.1	97		MS
Zinc	75-125	61.2		30.4		35.1	88		MS
Cyanide									

Comments:

USEPA - CLP
5A-IN
MATRIX SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

MF9K26S

Lab Name: ALS Environmental Contract: EPW09036

Lab Code: DATAC Case No.: 45299 Mod. Ref. No.: SDG No.: MF9K15

Matrix: Soil

% Solids for Sample: 97.6

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

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Aluminum									NR
Antimony									NR
Arsenic									NR
Barium									NR
Beryllium									NR
Cadmium									NR
Calcium									NR
Chromium									NR
Cobalt									NR
Copper									NR
Iron									NR
Lead									NR
Magnesium									NR
Manganese	75-125	259		178		75.4	107		P
Mercury									
Nickel									NR
Potassium									NR
Selenium									NR
Silver									NR
Sodium									NR
Thallium									NR
Vanadium									NR
Zinc									NR
Cyanide									

Comments:

USEPA - CLP
5B-IN
POST-DIGESTION SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

MF9K26A

Lab Name: ALS Environmental Contract: EPW09036

Lab Code: DATAC Case No.: 45299 Mod. Ref. No.: SDG No.: MF9K15

Matrix: Soil

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

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Aluminum									NR
Antimony		6.4		0.080	J	7.0	90		MS
Arsenic									NR
Barium									NR
Beryllium									NR
Cadmium									NR
Calcium									NR
Chromium									NR
Cobalt									NR
Copper									NR
Iron									NR
Lead									NR
Magnesium									NR
Manganese									NR
Mercury									NR
Nickel									NR
Potassium									NR
Selenium									NR
Silver									NR
Sodium									NR
Thallium									NR
Vanadium									NR
Zinc									NR
Cyanide									NR

Comments:

USEPA - CLP
6-IN
DUPLICATES

EPA SAMPLE NO.

MF9K26D

Lab Name: ALS Environmental Contract: EPW09036

Lab Code: DATAC Case No.: 45299 Mod. Ref. No.: SDG No.: MF9K15

Matrix: Soil

% Solids for Sample: 97.6

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

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum								
Antimony		0.080	J	0.049	J	48		MS
Arsenic		1.2		1.2		3		MS
Barium		30.3		30.2		0		MS
Beryllium	0.070	0.17	J	0.16	J	5		MS
Cadmium	0.070	0.14	J	0.14	J	1		MS
Calcium								
Chromium		4.8		4.7		1		MS
Cobalt		2.2		2.2		0		MS
Copper		10.8		10.7		0		MS
Iron								
Lead		11.5		11.4		1		MS
Magnesium								
Manganese								
Mercury		0.015	J	0.015	J	2		CV
Nickel		2.6		2.6		0		MS
Potassium								
Selenium		1.8	U	1.8	U			MS
Silver		0.019	J	0.017	J	10		MS
Sodium								
Thallium		0.049	J	0.046	J	7		MS
Vanadium		7.5		7.4		1		MS
Zinc		30.4		30.6		1		MS
Cyanide								

USEPA - CLP
6-IN
DUPLICATES

EPA SAMPLE NO.

MF9K26D

Lab Name: ALS Environmental Contract: EPW09036

Lab Code: DATAC Case No.: 45299 Mod. Ref. No.: SDG No.: MF9K15

Matrix: Soil

% Solids for Sample: 97.6

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

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum		2000		2480		21	*	P
Antimony								
Arsenic								
Barium								
Beryllium								
Cadmium								
Calcium	377	643		647		1		P
Chromium								
Cobalt								
Copper								
Iron		4230		4410		4		P
Lead								
Magnesium		272	J	312	J	14		P
Manganese		178		178		0		P
Mercury								
Nickel								
Potassium	377	462		520		12		P
Selenium								
Silver								
Sodium		6.4	J	8.7	J	30		P
Thallium								
Vanadium								
Zinc								
Cyanide								

USEPA - CLP
7-IN
LABORATORY CONTROL SAMPLE

Lab Name: ALS Environmental Contract: EPW09036

Lab Code: DATAC Case No.: 45299 Mod. Ref. No.: SDG No.: MF9K15

Analyte	Aqueous/Water (ug/L), Soil/Sediment (mg/kg), Wipe/Filter (ug) True	Found	%R
Aluminum			
Antimony	2.0	1.9	95
Arsenic	1.0	0.92	92
Barium	10.0	9.6	96
Beryllium	1.0	1.0	102
Cadmium	1.0	0.94	94
Calcium			
Chromium	2.0	1.8	92
Cobalt	1.0	0.94	94
Copper	2.0	2.0	100
Iron			
Lead	1.0	0.95	95
Magnesium			
Manganese			
Mercury			
Nickel	1.0	1.0	105
Potassium			
Selenium	5.0	4.6	92
Silver	1.0	1.0	100
Sodium			
Thallium	1.0	0.94	94
Vanadium	5.0	5.0	101
Zinc	2.0	2.2	112
Cyanide			

USEPA - CLP
7-IN
LABORATORY CONTROL SAMPLE

Lab Name: ALS Environmental Contract: EPW09036

Lab Code: DATAC Case No.: 45299 Mod. Ref. No.: SDG No.: MF9K15

Analyte	Aqueous/Water (ug/L), Soil/Sediment (mg/kg), Wipe/Filter (ug) True	Found	%R
Aluminum	40.0	41.1	103
Antimony			
Arsenic			
Barium			
Beryllium			
Cadmium			
Calcium	1000	1040	104
Chromium			
Cobalt			
Copper			
Iron	20.0	21.7	109
Lead			
Magnesium	1000	990	99
Manganese	3.0	3.0	99
Mercury			
Nickel			
Potassium	1000	963	96
Selenium			
Silver			
Sodium	1000	1030	103
Thallium			
Vanadium			
Zinc			
Cyanide			

USEPA - CLP
8-IN
ICP-AES and ICP-MS SERIAL DILUTIONS

EPA SAMPLE NO.

MF9K26L

Lab Name: ALS Environmental Contract: EPW09036

Lab Code: DATAC Case No.: 45299 Mod. Ref. No.: SDG No.: MF9K15

Matrix: Soil

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

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	M
Aluminum							
Antimony	0.080	J	0.084	J	6		MS
Arsenic	1.2		1.3	J	2		MS
Barium	30.3		30.6		1		MS
Beryllium	0.17	J	0.20	J	16		MS
Cadmium	0.14	J	0.17	J	18		MS
Calcium							
Chromium	4.8		4.9		3		MS
Cobalt	2.2		2.3		5		MS
Copper	10.8		11.2		4		MS
Iron							
Lead	11.5		11.4		1		MS
Magnesium							
Manganese							
Nickel	2.6		2.7		5		MS
Potassium							
Selenium	1.8	U	8.8	U			MS
Silver	0.019	J	0.018	J	3		MS
Sodium							
Thallium	0.049	J	0.038	J	23		MS
Vanadium	7.5		7.7	J	3		MS
Zinc	30.4		34.9		15	E	MS

USEPA - CLP
8-IN
ICP-AES and ICP-MS SERIAL DILUTIONS

EPA SAMPLE NO.
MF9K26L

Lab Name: ALS Environmental Contract: EPW09036

Lab Code: DATAC Case No.: 45299 Mod. Ref. No.: SDG No.: MF9K15

Matrix: Soil

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

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	M
Aluminum	2000		2040		2		P
Antimony							
Arsenic							
Barium							
Beryllium							
Cadmium							
Calcium	643		643	J	0		P
Chromium							
Cobalt							
Copper							
Iron	4230		4270		1		P
Lead							
Magnesium	272	J	279	J	3		P
Manganese	178		180		1		P
Nickel							
Potassium	462		447	J	3		P
Selenium							
Silver							
Sodium	6.4	J	8.7	J	35		P
Thallium							
Vanadium							
Zinc							

USEPA - CLP
9-IN
METHOD DETECTION LIMIT (MDL) (ANNUALLY)

Lab Name: ALS Environmental Contract: EPW09036

Lab Code: DATAC Case No.: 45299 Mod. Ref. No.: SDG No.: MF9K15

Instrument Type: CV Instrument ID: AACV02 Date: 01/15/2015

Preparation Method: 7471B

Concentration Units (ug/L, mg/kg or ug): mg/kg

Analyte	Wavelength/Mass	MDL
Aluminum		
Antimony		
Arsenic		
Barium		
Beryllium		
Cadmium		
Calcium		
Chromium		
Cobalt		
Copper		
Iron		
Lead		
Magnesium		
Manganese		
Mercury	253.65	0.0015
Nickel		
Potassium		
Selenium		
Silver		
Sodium		
Thallium		
Vanadium		
Zinc		
Cyanide		

Comments:

USEPA - CLP
9-IN
METHOD DETECTION LIMIT (MDL) (ANNUALLY)

Lab Name: ALS Environmental Contract: EPW09036

Lab Code: DATAC Case No.: 45299 Mod. Ref. No.: SDG No.: MF9K15

Instrument Type: P Instrument ID: ICP08 Date: 03/29/2015

Preparation Method: 3050B

Concentration Units (ug/L, mg/kg or ug): mg/kg

Analyte	Wavelength/Mass	MDL
Aluminum	308.22	6.8
Antimony		
Arsenic		
Barium		
Beryllium		
Cadmium		
Calcium	317.93	2.1
Chromium		
Cobalt		
Copper		
Iron	259.84	3.9
Lead		
Magnesium	279.08	3.9
Manganese	257.61	0.093
Mercury		
Nickel		
Potassium	766.49	4.6
Selenium		
Silver		
Sodium	589.59	1.9
Thallium		
Vanadium		
Zinc		
Cyanide		

Comments:

: 98054

USEPA - CLP
9-IN
METHOD DETECTION LIMIT (MDL) (ANNUALLY)

Lab Name: ALS Environmental Contract: EPW09036

Lab Code: DATAC Case No.: 45299 Mod. Ref. No.: SDG No.: MF9K15

Instrument Type: MS Instrument ID: ICPM02 Date: 05/22/2015

Preparation Method: 3050B

Concentration Units (ug/L, mg/kg or ug): mg/kg

Analyte	Wavelength/Mass	MDL
Aluminum		
Antimony	121.00	0.015
Arsenic	75.00	0.073
Barium	137.00	0.013
Beryllium	9.00	0.0079
Cadmium	111.00	0.0053
Calcium		
Chromium	52.00	0.011
Cobalt	59.00	0.0030
Copper	63.00	0.029
Iron		
Lead	206,207,208	0.0049
Magnesium		
Manganese		
Mercury		
Nickel	60.00	0.016
Potassium		
Selenium	82.00	0.30
Silver	107.00	0.0025
Sodium		
Thallium	205.00	0.0059
Vanadium	51.00	0.017
Zinc	66.00	0.16
Cyanide		

Comments:

USEPA - CLP
10A-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: ALS Environmental Contract: EPW09036

Lab Code: DATAC Case No.: 45299 Mod. Ref. No.: SDG No.: MF9K15

ICP-AES Instrument ID: ICP08 Date: 03/22/2015

Analyte	Wave-length (nm)	Interelement Correction Factors for: Al	Ca	Fe	Mg	Ba
Aluminum	308.22	0	0	0	0	0
Antimony	206.83	0	0	0.000034	0	0
Arsenic	189.04	0.000002	0	-0.000009	0	0
Barium	455.40	0	0	0	0	0
Beryllium	313.11	0	0	0	0	0
Cadmium	214.44	-0.000003	0	0.000029	0	0
Calcium	317.93	0	0	0	0	0
Chromium	205.55	0	0	0	0	0
Cobalt	228.62	0	0	0.000016	0	0.000208
Copper	327.40	0	0	0	0	0
Iron	259.84	0	0	0	0	0
Lead	220.35	0.000209	0	0.000053	0	0
Magnesium	279.08	0	0	0	0	0
Manganese	257.61	0	0	0	0	0
Nickel	231.60	0	0	0.000064	0	0
Potassium	766.49	0	0	0	0	0
Selenium	196.09	0.000048	0	0.000016	0	0
Silver	328.07	0	0	0	0	0
Sodium	589.59	0	0	0	0	0
Thallium	190.86	0	0	-0.000015	0	0
Vanadium	292.40	0	0	0.000042	0	0
Zinc	206.20	0	0	0.000012	0	0

Comments:

: 00856

USEPA - CLP
10B-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: ALS Environmental Contract: EPW09036

Lab Code: DATAC Case No.: 45299 Mod. Ref. No.: SDG No.: MF9K15

ICP-AES Instrument ID: ICP08 Date: 03/22/2015

Analyte	Wave-length (nm)	Interelement Correction Factors for: Be	Co	Cr	Cu	Mn
Aluminum	308.22	0	0	0	0	0
Antimony	206.83	0	0	0.004584	0	0
Arsenic	189.04	0	0	0.000182	0	0
Barium	455.40	0	0	0	0	0
Beryllium	313.11	0	0	0	0	0
Cadmium	214.44	0	0	0	0	0
Calcium	317.93	0	0	0	0	0
Chromium	205.55	0.000349	0	0	0	0
Cobalt	228.62	0	0	0	0	0
Copper	327.40	0	0	0	0	0
Iron	259.84	0	0	0	0	0.002834
Lead	220.35	0	0.000210	0	0.000609	0
Magnesium	279.08	0	0	0	0	0
Manganese	257.61	0	0	0	0	0
Nickel	231.60	0	0.000299	0	0	0
Potassium	766.49	0	0	0	0	0
Selenium	196.09	0	0	0	0	0.000491
Silver	328.07	0	0	0	0	0.000122
Sodium	589.59	0	0	0	0	0
Thallium	190.86	0	0.003624	0.000231	0	0.000867
Vanadium	292.40	0	0	0	0	0
Zinc	206.20	0	0	-0.000216	0	0

Comments:

USEPA - CLP
10B-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: ALS Environmental Contract: EPW09036

Lab Code: DATAC Case No.: 45299 Mod. Ref. No.: SDG No.: MF9K15

ICP-AES Instrument ID: ICP08 Date: 03/22/2015

Analyte	Wave-length (nm)	Interelement Correction Factors for: Mo	Ni	Ti	Tl	V
Aluminum	308.22	0.007083	0	0	0	0.142985
Antimony	206.83	-0.002050	0	0	0	0
Arsenic	189.04	0.001151	0	0	0	0
Barium	455.40	0	0	0	0	0
Beryllium	313.11	0	0	0	0	0.000244
Cadmium	214.44	0	0	0	0	0
Calcium	317.93	0	0	0	0	0
Chromium	205.55	0.000511	0	0	0	0.000049
Cobalt	228.62	-0.000958	0.000179	0.002132	0	0
Copper	327.40	-0.000486	0	0	0	0
Iron	259.84	0	0	0	0	0
Lead	220.35	-0.000259	0.000210	0	0	0
Magnesium	279.08	0	0	0	0	0
Manganese	257.61	0	0	0	0	0
Nickel	231.60	0	0	0	0.000479	0
Potassium	766.49	0	0	0	0	0
Selenium	196.09	0	0	0	0	0
Silver	328.07	0.000189	0	0	0	0.000084
Sodium	589.59	0	0	0	0	0
Thallium	190.86	0	0	0	0	0.002259
Vanadium	292.40	-0.001033	0	0.000987	0	0
Zinc	206.20	0.000258	0	0	0	0

Comments:

USEPA - CLP
11-IN
INTERNAL STANDARD ASSOCIATION

Lab Name: ALS Environmental Contract: EPW09036

Lab Code: DATAC Case No.: 45299 Mod. Ref. No.: SDG No.: MF9K15

ICP-MS Instrument ID: ICPM02 Date: 06/29/2015 14:25:00

Analyte	Assoc. Internal Standard 1	Assoc. Internal Standard 2
Aluminum		
Antimony	Rh	Tb
Arsenic	Sc	Y
Barium	Rh	Tb
Beryllium	Li	Sc
Cadmium	Rh	Tb
Calcium		
Chromium	Sc	Y
Cobalt	Sc	Y
Copper	Sc	Y
Iron		
Lead	Tb	Bi
Magnesium		
Manganese		
Nickel	Sc	Y
Potassium		
Selenium	Sc	Y
Silver	Rh	Tb
Sodium		
Thallium	Tb	Bi
Vanadium	Sc	Y
Zinc	Sc	Y

USEPA - CLP
12-IN
PREPARATION LOG

Lab Name: ALS Environmental Contract: EPW09036

Lab Code: DATAC Case No.: 45299 Mod. Ref. No.: SDG No.: MF9K15

Preparation Method: 3050B

EPA Sample No.	Preparation Date	Initial Weight/Volume (g) or (ml)	Final Volume (mL)
PBS1	06/18/2015	1.00	100
LCS1	06/18/2015	1.00	100
MF9K15	06/18/2015	1.05	100
MF9K16	06/18/2015	1.38	100
MF9K17	06/18/2015	1.28	100
MF9K19	06/18/2015	1.33	100
MF9K20	06/18/2015	1.44	100
MF9K21	06/18/2015	1.04	100
MF9K22	06/18/2015	1.26	100
MF9K23	06/18/2015	1.08	100
MF9K25	06/18/2015	1.08	100
MF9K26	06/18/2015	1.35	100
MF9K26D	06/18/2015	1.36	100
MF9K26S	06/18/2015	1.36	100
MF9K27	06/18/2015	1.06	100
MF9K28	06/18/2015	1.18	100
MF9K29	06/18/2015	1.29	100

USEPA - CLP
12-IN
PREPARATION LOG

Lab Name: ALS Environmental Contract: EPW09036

Lab Code: DATAC Case No.: 45299 Mod. Ref. No.: SDG No.: MF9K15

Preparation Method: 3050B

EPA Sample No.	Preparation Date	Initial Weight/Volume (g) or (ml)	Final Volume (mL)
PBS1	06/26/2015	1.00	100
LCS1	06/26/2015	1.00	100
MF9K15	06/26/2015	1.34	100
MF9K16	06/26/2015	1.08	100
MF9K17	06/26/2015	1.15	100
MF9K19	06/26/2015	1.08	100
MF9K20	06/26/2015	1.31	100
MF9K21	06/26/2015	1.18	100
MF9K22	06/26/2015	1.42	100
MF9K23	06/26/2015	1.35	100
MF9K25	06/26/2015	1.38	100
MF9K26	06/26/2015	1.46	100
MF9K26D	06/26/2015	1.46	100
MF9K26S	06/26/2015	1.46	100
MF9K27	06/26/2015	1.17	100
MF9K28	06/26/2015	1.23	100
MF9K29	06/26/2015	1.41	100

USEPA - CLP
12-IN
PREPARATION LOG

Lab Name: ALS Environmental Contract: EPW09036

Lab Code: DATAC Case No.: 45299 Mod. Ref. No.: SDG No.: MF9K15

Preparation Method: 7471B

EPA Sample No.	Preparation Date	Initial Weight/Volume (g) or (ml)	Final Volume (mL)
S0	07/01/2015	0.50	100
S0.2	07/01/2015	0.50	100
S0.5	07/01/2015	0.50	100
S1.0	07/01/2015	0.50	100
S5.0	07/01/2015	0.50	100
S10	07/01/2015	0.50	100
ICB	07/01/2015	0.50	100
ICV	07/01/2015	0.50	100
CCB	07/01/2015	0.50	100
CCV	07/01/2015	0.50	100
PBS1	07/01/2015	0.50	100
MF9K15	07/01/2015	0.58	100
MF9K16	07/01/2015	0.55	100
MF9K17	07/01/2015	0.53	100
MF9K19	07/01/2015	0.56	100
MF9K20	07/01/2015	0.51	100
MF9K21	07/01/2015	0.54	100
MF9K22	07/01/2015	0.53	100
MF9K23	07/01/2015	0.57	100
MF9K25	07/01/2015	0.51	100
MF9K26	07/01/2015	0.50	100
MF9K26D	07/01/2015	0.50	100
MF9K26S	07/01/2015	0.50	100
MF9K27	07/01/2015	0.54	100
MF9K28	07/01/2015	0.51	100
MF9K29	07/01/2015	0.51	100

USEPA - CLP
13-IN
ANALYSIS RUN LOG

Lab Name: ALS Environmental Contract: EPW09036

Lab Code: DATAC Case No.: 45299 Mod. Ref. No.: SDG No.: MF9K15

Instrument ID: AACV02 Analysis Method: CV

Start Date: 07/01/2015 End Date: 07/01/2015

EPA Sample No.	D/F	Time	Analytes																									
			Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Hg	Ni	K	Se	Ag	Na	Tl	V	Zn	Cn		
S0	1.0	1248															X											
S0.2	1.0	1249															X											
S0.5	1.0	1250															X											
S1.0	1.0	1252															X											
S5.0	1.0	1253															X											
S10	1.0	1254															X											
ICV1	1.0	1255															X											
ICB1	1.0	1256															X											
CCV1	1.0	1257															X											
CCB1	1.0	1258															X											
PBS1	1.0	1300															X											
MF9K15	1.0	1301															X											
MF9K16	1.0	1302															X											
MF9K17	1.0	1303															X											
MF9K19	1.0	1304															X											
MF9K20	1.0	1305															X											
MF9K21	1.0	1306															X											
MF9K22	1.0	1307															X											
MF9K23	1.0	1309															X											
MF9K25	1.0	1310															X											
MF9K26	1.0	1311															X											
MF9K26D	1.0	1312															X											
MF9K26S	1.0	1313															X											
MF9K27	1.0	1314															X											
MF9K28	1.0	1315															X											
MF9K29	1.0	1316															X											
CCV2	1.0	1318															X											
CCB2	1.0	1319															X											

USEPA - CLP
13-IN
ANALYSIS RUN LOG

Lab Name: ALS Environmental Contract: EPW09036

Lab Code: DATAC Case No.: 45299 Mod. Ref. No.: SDG No.: MF9K15

Instrument ID: ICPM02 Analysis Method: MS

Start Date: 06/29/2015 End Date: 06/29/2015

EPA Sample No.	D/F	Time	Analytes																									
			Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Hg	Ni	K	Se	Ag	Na	Tl	V	Zn	Cn		
TUNE	1.0	1425																										
S0	1.0	1450		X	X	X	X	X		X	X	X		X				X		X	X		X	X	X			
S	1.0	1454		X	X	X	X	X		X	X	X		X				X		X	X		X	X	X			
S10	1.0	1458		X	X		X	X		X	X	X		X				X		X	X		X	X	X			
S50	1.0	1503		X	X	X	X	X		X	X	X		X				X		X	X		X	X	X			
S200	1.0	1507		X	X	X	X	X		X	X	X		X				X		X	X		X	X	X			
S500	1.0	1511		X	X	X	X	X		X	X	X		X				X		X	X		X	X	X			
S2500	1.0	1516		X	X	X	X	X		X	X	X		X				X					X	X	X			
S5000	1.0	1520		X	X	X	X	X		X	X	X		X				X					X	X	X			
S50000	1.0	1524																										
S100000	1.0	1529																										
ICV1	1.0	1533		X	X	X	X	X		X	X	X		X				X		X	X		X	X	X			
ICB1	1.0	1538		X	X	X	X	X		X	X	X		X				X		X	X		X	X	X			
ICSA1	1.0	1542		X	X	X	X	X		X	X	X		X				X		X	X		X	X	X			
ICSAB1	1.0	1546		X	X	X	X	X		X	X	X		X				X		X	X		X	X	X			
CCV1	1.0	1551		X	X	X	X	X		X	X	X		X				X		X	X		X	X	X			
CCB1	1.0	1555		X	X	X	X	X		X	X	X		X				X		X	X		X	X	X			
ZZZZZZ	1.0	1559																										
ZZZZZZ	1.0	1604																										
ZZZZZZ	5.0	1608																										
ZZZZZZ	5.0	1612																										
ZZZZZZ	5.0	1617																										
ZZZZZZ	5.0	1621																										
ZZZZZZ	5.0	1625																										
ZZZZZZ	5.0	1630																										
ZZZZZZ	5.0	1634																										
ZZZZZZ	5.0	1638																										
ZZZZZZ	5.0	1643																										
ZZZZZZ	5.0	1647																										
ZZZZZZ	5.0	1651																										
ZZZZZZ	5.0	1656																										
ZZZZZZ	5.0	1700																										

USEPA - CLP
13-IN
ANALYSIS RUN LOG

Lab Name: ALS Environmental Contract: EPW09036

Lab Code: DATAC Case No.: 45299 Mod. Ref. No.: SDG No.: MF9K15

Instrument ID: ICPM02 Analysis Method: MS

Start Date: 06/29/2015 End Date: 06/29/2015

EPA Sample No.	D/F	Time	Analytes																									
			Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Hg	Ni	K	Se	Ag	Na	Tl	V	Zn	Cn		
ZZZZZZ	5.0	1704																										
ZZZZZZ	5.0	1709																										
ZZZZZZ	5.0	1713																										
ZZZZZZ	5.0	1718																										
ZZZZZZ	1.0	1722																										
CCV2	1.0	1726		X	X	X	X	X		X	X	X		X				X		X	X		X	X	X			
CCB2	1.0	1731		X	X	X	X	X		X	X	X		X				X		X	X		X	X	X			
PBS1	5.0	1736		X	X	X	X	X		X	X	X		X				X		X	X		X	X	X			
LCS1	5.0	1740		X	X	X	X	X		X	X	X		X				X		X	X		X	X	X			
MF9K26	5.0	1744		X	X	X	X	X		X	X	X		X				X		X	X		X	X	X			
MF9K26S	5.0	1749		X	X	X	X	X		X	X	X		X				X		X	X		X	X	X			
MF9K26D	5.0	1753		X	X	X	X	X		X	X	X		X				X		X	X		X	X	X			
MF9K26L	25	1757		X	X	X	X	X		X	X	X		X				X		X	X		X	X	X			
MF9K26A	5.0	1802		X																								
MF9K15	5.0	1806		X	X	X	X	X		X	X	X		X				X		X	X		X	X	X			
MF9K16	5.0	1810		X	X	X	X	X		X	X	X		X				X		X	X		X	X	X			
MF9K17	5.0	1815		X	X	X	X	X		X	X	X		X				X		X	X		X	X	X			
MF9K19	5.0	1819		X	X	X	X	X		X	X	X		X				X		X	X		X	X	X			
MF9K20	5.0	1823		X	X	X	X	X		X	X	X		X				X		X	X		X	X	X			
MF9K21	5.0	1828		X	X	X	X	X		X	X	X		X				X		X	X		X	X	X			
MF9K22	5.0	1832		X	X	X	X	X		X	X	X		X				X		X	X		X	X	X			
MF9K23	5.0	1836		X	X	X	X	X		X	X	X		X				X		X	X		X	X	X			
MF9K25	5.0	1841		X	X	X	X	X		X	X	X		X				X		X	X		X	X	X			
MF9K27	5.0	1845		X	X	X	X	X		X	X	X		X				X		X	X		X	X	X			
MF9K28	5.0	1850		X	X	X	X	X		X	X	X		X				X		X	X		X	X	X			
MF9K29	5.0	1854		X	X	X	X	X		X	X	X		X				X		X	X		X	X	X			
ZZZZZZ	1.0	1858																										
CCV3	1.0	1903		X	X	X	X	X		X	X	X		X				X		X	X		X	X	X			
CCB3	1.0	1907		X	X	X	X	X		X	X	X		X				X		X	X		X	X	X			

USEPA - CLP
13-IN
ANALYSIS RUN LOG

Lab Name: ALS Environmental Contract: EPW09036

Lab Code: DATAC Case No.: 45299 Mod. Ref. No.: SDG No.: MF9K15

Instrument ID: ICP08 Analysis Method: P

Start Date: 06/30/2015 End Date: 06/30/2015

EPA Sample No.	D/F	Time	Analytes																									
			Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Hg	Ni	K	Se	Ag	Na	Tl	V	Zn	Cn		
S0	1.0	1449	X						X				X		X	X			X			X						
SA	1.0	1452	X						X				X		X	X			X			X						
SB	1.0	1455	X						X				X		X	X			X			X						
SC	1.0	1458	X										X			X												
SD	1.0	1501	X						X				X		X	X			X			X						
SE	1.0	1503	X						X				X		X	X			X			X						
SF	1.0	1506														X												
S500000	1.0	1509	X						X				X		X				X			X						
ICV1	1.0	1512	X						X				X		X	X			X			X						
ICB1	1.0	1515	X						X				X		X	X			X			X						
ICSA1	1.0	1518	X						X				X		X	X			X			X						
ICSAB1	1.0	1521	X						X				X		X	X			X			X						
CCV1	1.0	1524	X						X				X		X	X			X			X						
CCB1	1.0	1527	X						X				X		X	X			X			X						
PBS1	1.0	1529	X						X				X		X	X			X			X						
LCS1	1.0	1532	X						X				X		X	X			X			X						
MF9K15	1.0	1535	X						X				X		X	X			X			X						
MF9K16	1.0	1538	X						X				X		X	X			X			X						
MF9K17	1.0	1541	X						X				X		X	X			X			X						
MF9K19	1.0	1544	X						X				X		X	X			X			X						
MF9K20	1.0	1547	X						X				X		X	X			X			X						
MF9K21	1.0	1549	X						X				X		X	X			X			X						
MF9K22	1.0	1552	X						X				X		X	X			X			X						
MF9K23	1.0	1555	X						X				X		X	X			X			X						
MF9K25	1.0	1558	X						X				X		X	X			X			X						
MF9K26	1.0	1601	X						X				X		X	X			X			X						
MF9K26S	1.0	1604														X												
MF9K26D	1.0	1606	X						X				X		X	X			X			X						
MF9K26L	5.0	1609	X						X				X		X	X			X			X						
MF9K27	1.0	1612	X						X				X		X	X			X			X						
MF9K28	1.0	1615	X						X				X		X	X			X			X						
MF9K29	1.0	1618	X						X				X		X	X			X			X						

USEPA - CLP
13-IN
ANALYSIS RUN LOG

Lab Name: ALS Environmental Contract: EPW09036

Lab Code: DATAC Case No.: 45299 Mod. Ref. No.: SDG No.: MF9K15

Instrument ID: ICP08 Analysis Method: P

Start Date: 06/30/2015 End Date: 06/30/2015

EPA Sample No.	D/F	Time	Analytes																									
			Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Hg	Ni	K	Se	Ag	Na	Tl	V	Zn	Cn		
CCV2	1.0	1621	X						X				X		X	X			X			X						
CCB2	1.0	1624	X						X				X		X	X			X			X						

USEPA - CLP
14-IN
ICP-MS Tune

Lab Name: ALS Environmental Contract: EPW09036

Lab Code: DATAC Case No.: 45299 Mod. Ref. No.: SDG No.: MF9K15

ICP-MS Instrument ID: ICPM02 Date: 06/29/2015

Element - Mass	Avg. Measured Mass (amu)	Average Peak Width (amu)	%Height	%RSD
Be - 9	9.01	0.82	5	1.5
Mg - 24	23.99	0.77	5	1.1
Mg - 25	24.99	0.77	5	0.5
Mg - 26	25.98	0.77	5	0.6
Co - 59	58.93	0.77	5	0.8
In - 113	112.90	0.77	5	0.7
In - 115	114.90	0.77	5	0.4
Pb - 206	205.97	0.76	5	0.4
Pb - 207	206.98	0.76	5	0.3
Pb - 208	207.98	0.76	5	0.4

Comments:
Instrument manufacturer's specification for peak height is 0.65 to 0.85 amu with the peak width measured at 5% of the peak maximum.

USEPA - CLP
15-IN
ICP-MS INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY

Lab Name: ALS Environmental Contract: EPW09036

Lab Code: DATAC Case No.: 45299 Mod. Ref. No.: SDG No.: MF9K15

ICP-MS Instrument ID: ICPM02 Start Date: 06/29/2015 End Date: 06/29/2015

EPA Sample No.	Time	Internal Standards %RI For:									
		Element 6Li	Q	Element 45Sc	Q	Element 89Y	Q	Element 103Rh	Q	Element 159Tb	Q
S0	1450										
S	1454										
S10	1458										
S50	1503										
S200	1507										
S500	1511										
S2500	1516										
S5000	1520										
S50000	1524										
S100000	1529										
ICV1	1533	101		99		94		96		93	
ICB1	1538	102		99		96		98		94	
ICSA1	1542	81		86		82		80		87	
ICSAB1	1546	80		86		82		80		89	
CCV1	1551	88		91		85		84		88	
CCB1	1555	99		97		94		97		96	
ZZZZZZ	1559										
ZZZZZZ	1604										
ZZZZZZ	1608										
ZZZZZZ	1612										
ZZZZZZ	1617										
ZZZZZZ	1621										
ZZZZZZ	1625										
ZZZZZZ	1630										
ZZZZZZ	1634										
ZZZZZZ	1638										
ZZZZZZ	1643										
ZZZZZZ	1647										
ZZZZZZ	1651										
ZZZZZZ	1656										
ZZZZZZ	1700										
ZZZZZZ	1704										

USEPA - CLP
15-IN
ICP-MS INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY

Lab Name: ALS Environmental Contract: EPW09036

Lab Code: DATAC Case No.: 45299 Mod. Ref. No.: SDG No.: MF9K15

ICP-MS Instrument ID: ICPM02 Start Date: 06/29/2015 End Date: 06/29/2015

EPA Sample No.	Time	Internal Standards %RI For:									
		Element 209Bi	Q	Element	Q	Element	Q	Element	Q	Element	Q
S0	1450										
S	1454										
S10	1458										
S50	1503										
S200	1507										
S500	1511										
S2500	1516										
S5000	1520										
S50000	1524										
S100000	1529										
ICV1	1533	93									
ICB1	1538	96									
ICSA1	1542	80									
ICSAB1	1546	81									
CCV1	1551	83									
CCB1	1555	98									
ZZZZZZ	1559										
ZZZZZZ	1604										
ZZZZZZ	1608										
ZZZZZZ	1612										
ZZZZZZ	1617										
ZZZZZZ	1621										
ZZZZZZ	1625										
ZZZZZZ	1630										
ZZZZZZ	1634										
ZZZZZZ	1638										
ZZZZZZ	1643										
ZZZZZZ	1647										
ZZZZZZ	1651										
ZZZZZZ	1656										
ZZZZZZ	1700										
ZZZZZZ	1704										

USEPA - CLP
15-IN
ICP-MS INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY

Lab Name: ALS Environmental Contract: EPW09036

Lab Code: DATAC Case No.: 45299 Mod. Ref. No.: SDG No.: MF9K15

ICP-MS Instrument ID: ICPM02 Start Date: 06/29/2015 End Date: 06/29/2015

EPA Sample No.	Time	Internal Standards %RI For:									
		Element 6Li	Q	Element 45Sc	Q	Element 89Y	Q	Element 103Rh	Q	Element 159Tb	Q
ZZZZZZ	1709										
ZZZZZZ	1713										
ZZZZZZ	1718										
ZZZZZZ	1722										
CCV2	1726	95		93		82		81		80	
CCB2	1731	106		101		91		94		88	
PBS1	1736	112		105		94		97		90	
LCS1	1740	113		106		94		97		91	
MF9K26	1744	104		103		94		93		87	
MF9K26S	1749	103		101		93		92		87	
MF9K26D	1753	104		102		95		93		87	
MF9K26L	1757	103		100		92		94		88	
MF9K26A	1802	102		100		93		90		86	
MF9K15	1806	103		101		93		90		86	
MF9K16	1810	103		101		93		92		87	
MF9K17	1815	103		100		94		92		88	
MF9K19	1819	102		100		94		91		88	
MF9K20	1823	102		99		93		92		89	
MF9K21	1828	104		100		93		92		87	
MF9K22	1832	103		100		92		91		86	
MF9K23	1836	103		100		95		90		86	
MF9K25	1841	103		98		92		89		86	
MF9K27	1845	103		98		92		90		87	
MF9K28	1850	103		99		92		91		87	
MF9K29	1854	103		99		92		91		87	
ZZZZZZ	1858										
CCV3	1903	97		93		80		80		78	
CCB3	1907	109		101		90		93		86	

USEPA - CLP
15-IN
ICP-MS INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY

Lab Name: ALS Environmental Contract: EPW09036

Lab Code: DATAC Case No.: 45299 Mod. Ref. No.: SDG No.: MF9K15

ICP-MS Instrument ID: ICPM02 Start Date: 06/29/2015 End Date: 06/29/2015

EPA Sample No.	Time	Internal Standards %RI For:									
		Element 209Bi	Q	Element	Q	Element	Q	Element	Q	Element	Q
ZZZZZZ	1709										
ZZZZZZ	1713										
ZZZZZZ	1718										
ZZZZZZ	1722										
CCV2	1726	75									
CCB2	1731	89									
PBS1	1736	91									
LCS1	1740	91									
MF9K26	1744	87									
MF9K26S	1749	87									
MF9K26D	1753	87									
MF9K26L	1757	90									
MF9K26A	1802	85									
MF9K15	1806	86									
MF9K16	1810	87									
MF9K17	1815	88									
MF9K19	1819	89									
MF9K20	1823	89									
MF9K21	1828	88									
MF9K22	1832	87									
MF9K23	1836	86									
MF9K25	1841	85									
MF9K27	1845	87									
MF9K28	1850	87									
MF9K29	1854	87									
ZZZZZZ	1858										
CCV3	1903	74									
CCB3	1907	87									

USEPA - CLP
16-IN
INITIAL CALIBRATION

Lab Name: ALS Environmental Contract: EPW09036

Lab Code: DATAC Case No.: 45299 Mod. Ref. No.: SDG No.: MF9K15

Instrument ID: ICPM02 Start Date: 06/29/2015

Concentration Units: ug/L

Analyte	True	Found	%D	True	Found	%D	True	Found	%D
Aluminum									
Antimony	0.0	0.0		2.0	1.9	3	10.0	9.4	6
Arsenic	0.0	0.0		1.0	0.91	9	10.0	9.7	3
Barium	0.0	0.0		10.0	9.8	2			
Beryllium	0.0	0.0		1.0	1.0	0	10.0	10.3	-3
Cadmium	0.0	0.0		1.0	0.96	4	10.0	10.0	0
Calcium									
Chromium	0.0	0.0		2.0	1.9	6	10.0	9.6	4
Cobalt	0.0	0.0		1.0	0.95	5	10.0	9.7	3
Copper	0.0	0.0		2.0	1.9	3	10.0	9.8	2
Iron									
Lead	0.0	0.0		1.0	0.93	7	10.0	9.5	5
Magnesium									
Manganese									
Mercury									
Nickel	0.0	0.0		1.0	1.0	-2	10.0	10.1	-1
Potassium									
Selenium	0.0	0.0		5.0	5.0	0	10.0	10.1	-1
Silver	0.0	0.0		1.0	1.0	0	10.0	9.8	2
Sodium									
Thallium	0.0	0.0		1.0	0.94	6	10.0	9.5	5
Vanadium	0.0	0.0		5.0	5.1	-3	10.0	9.6	4
Zinc	0.0	0.0		2.0	2.1	-5	10.0	12.3	-23
Cyanide									

Control Limits ±30

USEPA - CLP
16-IN
INITIAL CALIBRATION

Lab Name: ALS Environmental Contract: EPW09036

Lab Code: DATAC Case No.: 45299 Mod. Ref. No.: SDG No.: MF9K15

Instrument ID: ICPM02 Start Date: 06/29/2015

Concentration Units: ug/L

Analyte	True	Found	%D	True	Found	%D	True	Found	%D
Aluminum									
Antimony	50.0	47.3	5	200	193	4	500	483	3
Arsenic	50.0	48.6	3	200	195	2	500	484	3
Barium	50.0	49.6	1	200	200	0	500	491	2
Beryllium	50.0	50.9	-2	200	207	-3	500	509	-2
Cadmium	50.0	49.3	1	200	201	0	500	497	1
Calcium									
Chromium	50.0	48.3	3	200	198	1	500	502	0
Cobalt	50.0	48.4	3	200	200	0	500	498	0
Copper	50.0	49.2	2	200	202	-1	500	501	0
Iron									
Lead	50.0	47.2	6	200	193	3	500	489	2
Magnesium									
Manganese									
Mercury									
Nickel	50.0	49.8	0	200	202	-1	500	501	0
Potassium									
Selenium	50.0	50.5	-1	200	202	-1	500	499	0
Silver	50.0	49.2	2	200	201	0	500	500	0
Sodium									
Thallium	50.0	47.3	5	200	196	2	500	499	0
Vanadium	50.0	48.1	4	200	198	1	500	502	0
Zinc	50.0	50.7	-1	200	207	-4	500	513	-3
Cyanide									

Control Limits ±30

USEPA - CLP
16-IN
INITIAL CALIBRATION

Lab Name: ALS Environmental Contract: EPW09036

Lab Code: DATAC Case No.: 45299 Mod. Ref. No.: SDG No.: MF9K15

Instrument ID: ICPM02 Start Date: 06/29/2015

Concentration Units: ug/L

Analyte	True	Found	%D	True	Found	%D	True	Found	%D
Aluminum									
Antimony	2500	2510	-1	5000	5000	0			
Arsenic	2500	2490	0	5000	5010	0			
Barium	2500	2530	-1	5000	4980	0			
Beryllium	2500	2530	-1	5000	4980	0			
Cadmium	2500	2560	-3	5000	4970	1			
Calcium									
Chromium	2500	2500	0	5000	5000	0			
Cobalt	2500	2520	-1	5000	4990	0			
Copper	2500	2520	-1	5000	4990	0			
Iron									
Lead	2500	2480	1	5000	5010	0			
Magnesium									
Manganese									
Mercury									
Nickel	2500	2510	-1	5000	4990	0			
Potassium									
Selenium									
Silver									
Sodium									
Thallium	2500	2490	1	5000	5010	0			
Vanadium	2500	2530	-1	5000	4990	0			
Zinc	2500	2590	-3	5000	4960	1			
Cyanide									

Control Limits ±30

USEPA - CLP
16-IN
INITIAL CALIBRATION

Lab Name: ALS Environmental Contract: EPW09036

Lab Code: DATAC Case No.: 45299 Mod. Ref. No.: SDG No.: MF9K15

Instrument ID: ICP08 Start Date: 06/30/2015

Concentration Units: ug/L

Analyte	True	Found	%D	True	Found	%D	True	Found	%D
Aluminum	0.0	-0.041		200	229	-14	1000	1060	-6
Antimony									
Arsenic									
Barium									
Beryllium									
Cadmium									
Calcium	0.0	-0.88		5000	5450	-9	25000	26400	-6
Chromium									
Cobalt									
Copper									
Iron	0.0	-0.045		100	125	-25	1000	1080	-8
Lead									
Magnesium	0.0	-0.42		5000	5300	-6	25000	25600	-3
Manganese	0.0	-0.0013		15.0	15.9	-6	200	203	-2
Mercury									
Nickel									
Potassium	0.0	-0.14		5000	5080	-2	25000	25100	0
Selenium									
Silver									
Sodium	0.0	-1.0		5000	5480	-10	25000	26600	-7
Thallium									
Vanadium									
Zinc									
Cyanide									

Control Limits ±30

USEPA - CLP
16-IN
INITIAL CALIBRATION

Lab Name: ALS Environmental Contract: EPW09036

Lab Code: DATAC Case No.: 45299 Mod. Ref. No.: SDG No.: MF9K15

Instrument ID: ICP08 Start Date: 06/30/2015

Concentration Units: ug/L

Analyte	True	Found	%D	True	Found	%D	True	Found	%D
Aluminum	5000	5020	0	50000	49900	0	250000	249000	0
Antimony									
Arsenic									
Barium									
Beryllium									
Cadmium									
Calcium				125000	130000	-4	250000	251000	-1
Chromium									
Cobalt									
Copper									
Iron	5000	5350	-7	50000	52600	-5	250000	253000	-1
Lead									
Magnesium				125000	126000	-1	250000	247000	1
Manganese	2000	2060	-3	5000	4970	1	25000	24100	4
Mercury									
Nickel									
Potassium				125000	126000	-1	250000	251000	0
Selenium									
Silver									
Sodium				125000	132000	-6	250000	253000	-1
Thallium									
Vanadium									
Zinc									
Cyanide									

Control Limits ±30

USEPA - CLP
16-IN
INITIAL CALIBRATION

Lab Name: ALS Environmental Contract: EPW09036

Lab Code: DATAC Case No.: 45299 Mod. Ref. No.: SDG No.: MF9K15

Instrument ID: ICP08 Start Date: 06/30/2015

Concentration Units: ug/L

Analyte	True	Found	%D	True	Found	%D	True	Found	%D
Aluminum				500000	501000	0			
Antimony									
Arsenic									
Barium									
Beryllium									
Cadmium									
Calcium				500000	492000	2			
Chromium									
Cobalt									
Copper									
Iron				500000	494000	1			
Lead									
Magnesium				500000	501000	0			
Manganese	50000	50800	-2						
Mercury									
Nickel									
Potassium				500000	498000	0			
Selenium									
Silver									
Sodium				500000	488000	2			
Thallium									
Vanadium									
Zinc									
Cyanide									

Control Limits ±30

USEPA - CLP
16-IN
INITIAL CALIBRATION

Lab Name: ALS Environmental Contract: EPW09036

Lab Code: DATAC Case No.: 45299 Mod. Ref. No.: SDG No.: MF9K15

Instrument ID: AACV02 Start Date: 07/01/2015

Concentration Units: ug/L

Analyte	True	Found	%D	True	Found	%D	True	Found	%D
Aluminum									
Antimony									
Arsenic									
Barium									
Beryllium									
Cadmium									
Calcium									
Chromium									
Cobalt									
Copper									
Iron									
Lead									
Magnesium									
Manganese									
Mercury	0.0	-0.013		0.20	0.19	7	0.50	0.49	2
Nickel									
Potassium									
Selenium									
Silver									
Sodium									
Thallium									
Vanadium									
Zinc									
Cyanide									

Control Limits ±30

USEPA - CLP
16-IN
INITIAL CALIBRATION

Lab Name: ALS Environmental Contract: EPW09036

Lab Code: DATAC Case No.: 45299 Mod. Ref. No.: SDG No.: MF9K15

Instrument ID: AACV02 Start Date: 07/01/2015

Concentration Units: ug/L

Analyte	True	Found	%D	True	Found	%D	True	Found	%D
Aluminum									
Antimony									
Arsenic									
Barium									
Beryllium									
Cadmium									
Calcium									
Chromium									
Cobalt									
Copper									
Iron									
Lead									
Magnesium									
Manganese									
Mercury	1.0	1.0	-1	5.0	5.1	-1	10.0	10	0
Nickel									
Potassium									
Selenium									
Silver									
Sodium									
Thallium									
Vanadium									
Zinc									
Cyanide									

Control Limits ±30

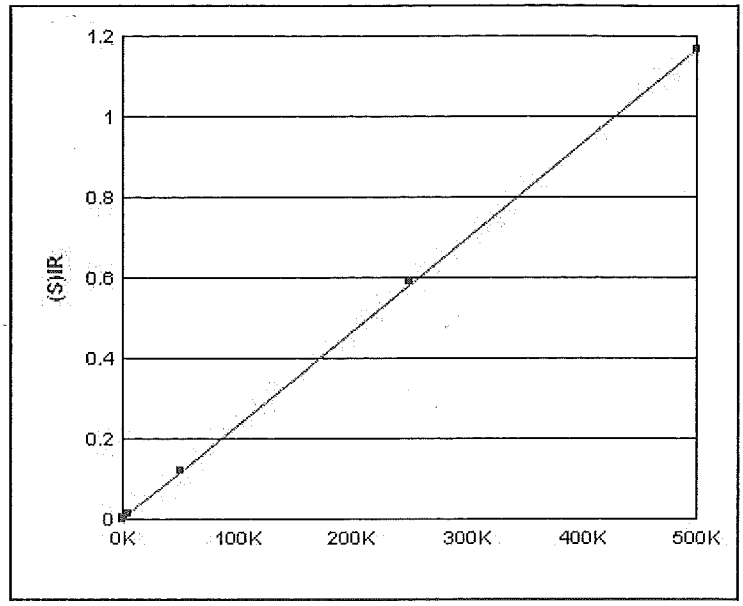
Run# k15127		Al3082	Ca3179	Fe2598	Mg2790	Mn2576	K_7664	Na5895
		Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
S0	06/30/2015 14:49:45	0.00042	0.00291	-0.00009	-0.00009	0.00007	0.00184	-0.00104
SA	06/30/2015 14:52:41	0.00097	0.27478	0.00165	0.01228	0.00184	0.10252	0.26449
SB	06/30/2015 14:55:37	0.00296	1.323	0.01492	0.05977	0.02279	0.49878	1.2907
SC	06/30/2015 14:58:24	0.0128		0.07451		0.23075		
SD	06/30/2015 15:01:04	0.11841	6.4878	0.73217	0.29414	0.55582	2.5055	6.4098
SE	06/30/2015 15:03:38	0.58955	12.547	3.5178	0.57778	2.6965	4.974	12.268
SF	06/30/2015 15:06:36					5.683		
S500000	06/30/2015 15:09:46	1.1668	24.554	6.8859	1.1692		9.8629	23.644
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
ICV1	06/30/2015 15:12:49	2561.5	10669	5329.9	6153.4	509	9894	10607
ICB1	06/30/2015 15:15:29	18.398	-6.0668	9.6136	19.419	-0.61266	-8.902	10.658
ICSA1	06/30/2015 15:18:27	249020	255600	102160	259270	16.111	30.093	65.404
ICSAB1	06/30/2015 15:21:21	253420	257390	103230	261850	523.66	11.635	75.323
CCV1	06/30/2015 15:24:03	245510	251400	252510	248000	23901	249000	254930
CCB1	06/30/2015 15:27:01	31.012	3.8412	26.162	32.932	0.5779	25.317	23.456
PBS1	06/30/2015 15:29:58	63.851	51.729	12.161	13.187	-0.18802	-31.679	25.461
LCS1	06/30/2015 15:32:56	411.49	10363	217.2	9901.2	29.57	9629.5	10332
MF9K15	06/30/2015 15:35:50	35762	19826	65404	5713.8	2508.4	6849.2	262.55
MF9K16	06/30/2015 15:38:40	41702	20386	66355	7046.1	1865.3	6692.8	188.42
MF9K17	06/30/2015 15:41:30	34381	80169	79721	37194	3538.1	7094.9	239.04
MF9K19	06/30/2015 15:44:19	45247	12584	102890	6432.2	1882.4	10343	294.78
MF9K20	06/30/2015 15:47:08	40816	12147	62648	6065.3	1932.1	6527	175.64
MF9K21	06/30/2015 15:49:57	21058	5870.7	48140	2551.8	1923.2	4265.5	94.698
MF9K22	06/30/2015 15:52:47	26994	12920	60649	4717.5	2470	6361.5	113.56
MF9K23	06/30/2015 15:55:36	38811	7930.2	77270	4702.2	1547.5	7350.5	209.47
MF9K25	06/30/2015 15:58:25	38033	40104	71096	19882	2305.6	9029.9	206.61
MF9K26	06/30/2015 16:01:14	26345	8466.3	55667	3577.3	2338.4	6090.5	84.741
MF9K26S	06/30/2015 16:04:04	32180	8589.8	59213	3634.8	3430.3	6175.3	103.23
MF9K26D	06/30/2015 16:06:47	32925	8582.8	58562	4138.7	2360.9	6895.9	115.89
MF9K26L	06/30/2015 16:09:37	5378.3	1695.2	11255	733.77	474.68	1178.3	22.909
MF9K27	06/30/2015 16:12:31	31413	17902	71156	8643.8	2119.8	7156.1	155.52
MF9K28	06/30/2015 16:15:21	25853	9145.8	52937	3679.6	2039.9	5002.4	100.87
MF9K29	06/30/2015 16:18:25	30125	7696.5	68718	3677.4	2802.9	6394.1	112.02
CCV2	06/30/2015 16:21:15	252910	254600	255870	250820	24526	252860	257300
CCB2	06/30/2015 16:24:13	9.5917	6.5501	34.48	27.572	1.4226	-20.05	27.281

Results are not used/required.

Calibration Data for Run# k15127

Author: Neil Edwards

Method Name: ICP08 ISM01.3 2015 (11)

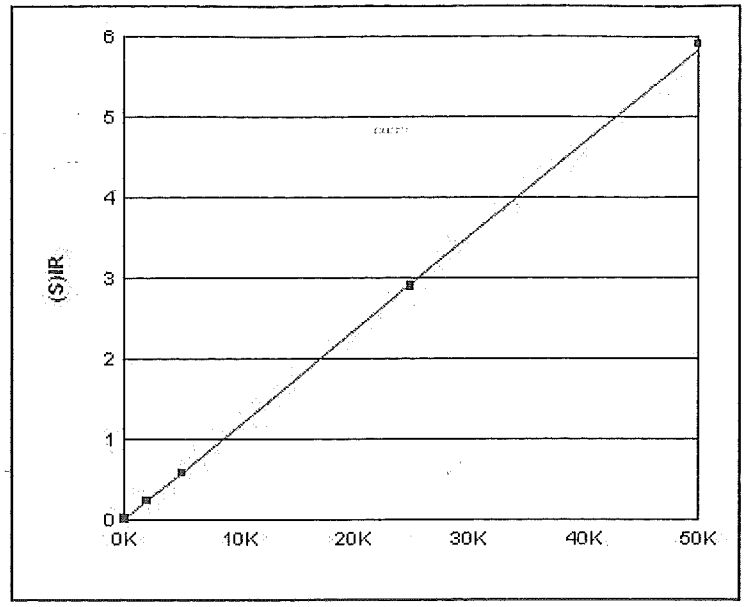


Element Name:	Al
Element Wavelength:	Al 308.215 nm
Concentration Units:	ug/L
Date of Calibration:	06/30/2015 15:12:34
Date of Fit:	06/30/2015 15:12:34
Type of Fit:	Linear
Correlation:	0.99999
A0 (Offset):	0.00042444
A1 (Gain):	0.0000023295
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		**QC Normalize**	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

Concentration

Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
S0	0.00000	-0.040921	-0.040921	0.00000	0.00042435	0.000010650	1
SA	200.00	228.82	28.816	14.408	0.00097428	0.0000075914	1
SB	1,000.00	1,059.0	59.027	5.9027	0.0029593	0.000033168	1
SC	5,000.0	5,022.9	22.921	0.45843	0.012804	0.00012703	1
SD	50,000	49,922	-77.595	-0.15519	0.11841	0.00054877	1
SE	250,000	249,260	-740.92	-0.29637	0.58955	0.0012304	1
S500000	500,000	500,720	715.58	0.14312	1.1668	0.0068691	1

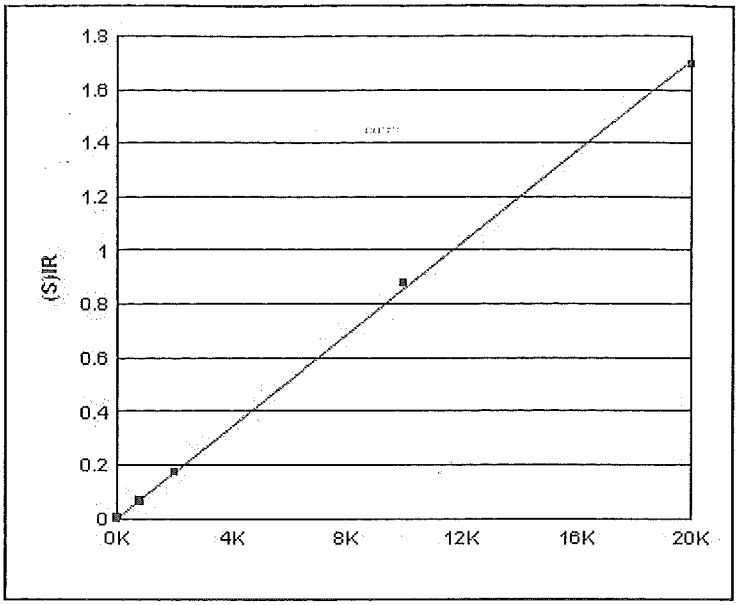


Element Name:	Sb
Element Wavelength:	Sb 206.833 nm
Concentration Units:	ug/L
Date of Calibration:	06/30/2015 15:09:32
Date of Fit:	06/30/2015 15:09:32
Type of Fit:	Linear
Correlation:	0.99995
A0 (Offset):	0.000058234
A1 (Gain):	0.00011659
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		**QC Normalize**	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

Concentration

Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
S0	0.00000	0.0023730	0.0023730	0.00000	0.000058510	0.000084313	1
SA	60.000	59.210	-0.79030	-1.3172	0.0069647	0.00016233	1
SB	200.00	198.90	-1.0967	-0.54837	0.023340	0.000030447	1
SC	2,000.0	1,992.2	-7.8479	-0.39239	0.23321	0.00067562	1
SD	5,000.0	4,940.7	-59.302	-1.1860	0.57847	0.00056258	1
SE	25,000	24,675	-324.71	-1.2988	2.8888	0.011446	1
SF	50,000	50,394	393.88	0.78775	5.8973	0.035374	1

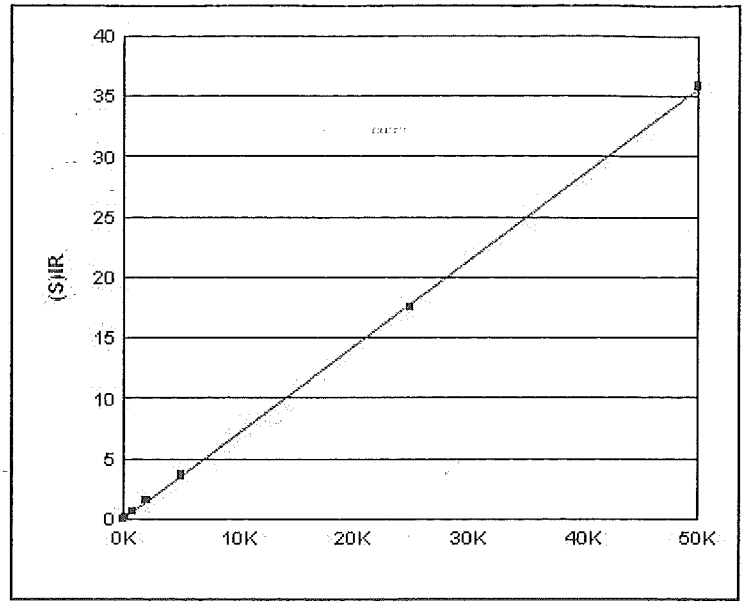


Element Name:	As
Element Wavelength:	As 189.042 nm
Concentration Units:	ug/L
Date of Calibration:	06/30/2015 15:09:32
Date of Fit:	06/30/2015 15:09:32
Type of Fit:	Linear
Correlation:	0.99986
A0 (Offset):	0.0000084139
A1 (Gain):	0.000085569
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		**QC Normalize**	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

Concentration

Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
S0	0.00000	-0.00010912	-0.00010912	0.00000	0.0000084046	0.00018824	1
SA	10.000	10.625	0.62484	6.2484	0.00091866	0.000068027	1
SB	80.000	77.530	-2.4697	-3.0871	0.0066530	0.000018839	1
SC	800.00	766.54	-33.460	-4.1826	0.065707	0.00021404	1
SD	2,000.0	2,017.4	17.410	0.87050	0.17288	0.00018769	1
SE	10,000	10,230	230.45	2.3045	0.87664	0.0025980	1
SF	20,000	19,787	-212.51	-1.0626	1.6959	0.010746	1

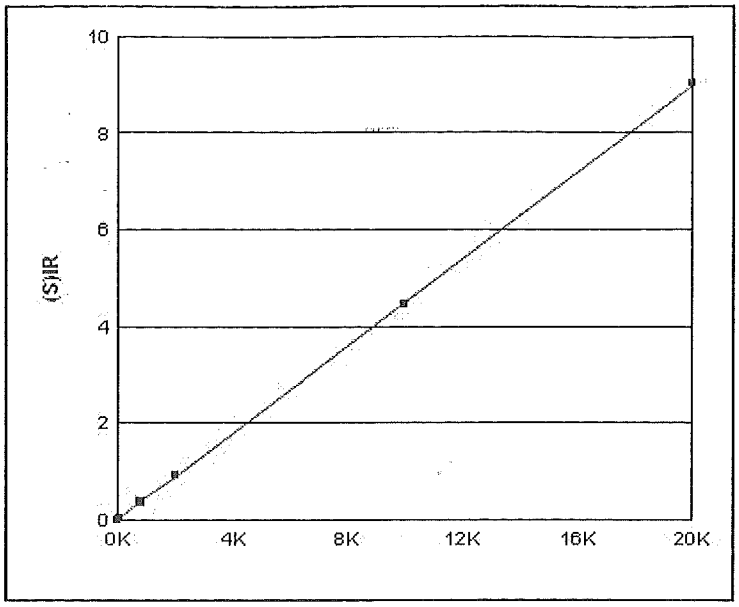


Element Name:	Ba
Element Wavelength:	Ba 455.403 nm
Concentration Units:	ug/L
Date of Calibration:	06/30/2015 15:09:32
Date of Fit:	06/30/2015 15:09:32
Type of Fit:	Linear
Correlation:	0.99991
A0 (Offset):	0.0025226
A1 (Gain):	0.00071240
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		**QC Normalize**	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

Concentration

Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
S0	0.00000	-0.028258	-0.028258	0.00000	0.0025024	0.000065007	1
SA	200.00	216.34	16.335	8.1676	0.15664	0.0011442	1
SB	750.00	778.86	28.862	3.8482	0.55738	0.00091587	1
SC	2,000.0	2,051.9	51.921	2.5960	1.4643	0.0016568	1
SD	5,000.0	5,034.8	34.793	0.69587	3.5893	0.0096464	1
SE	25,000	24,543	-457.47	-1.8299	17.487	0.14304	1
SF	50,000	50,326	325.56	0.65112	35.854	0.18314	1

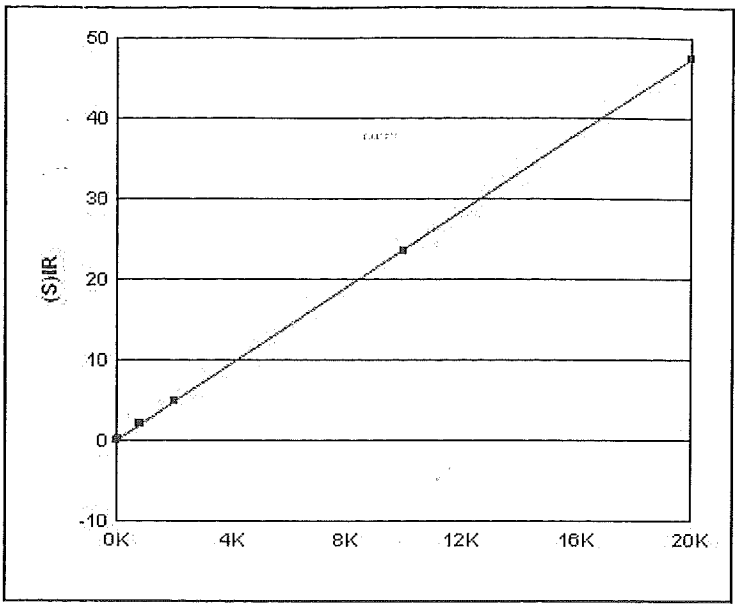


Element Name:	Be
Element Wavelength:	Be 313.107 nm
Concentration Units:	ug/L
Date of Calibration:	06/30/2015 15:09:32
Date of Fit:	06/30/2015 15:09:32
Type of Fit:	Linear
Correlation:	0.99998
A0 (Offset):	0.0000049940
A1 (Gain):	0.00044949
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		**QC Normalize**	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

Concentration

Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
S0	0.00000	-0.00029721	-0.00029721	0.00000	0.0000048604	0.000071949	1
SA	5.0000	5.1700	0.16999	3.3998	0.0023343	0.000020641	1
SB	80.000	80.911	0.91122	1.1390	0.036396	0.000069583	1
SC	800.00	802.52	2.5204	0.31505	0.36095	0.0010672	1
SD	2,000.0	2,033.4	33.420	1.6710	0.91455	0.0012978	1
SE	10,000	9,920.9	-79.136	-0.79136	4.4621	0.0073938	1
SF	20,000	20,042	42.114	0.21057	9.0142	0.018182	1

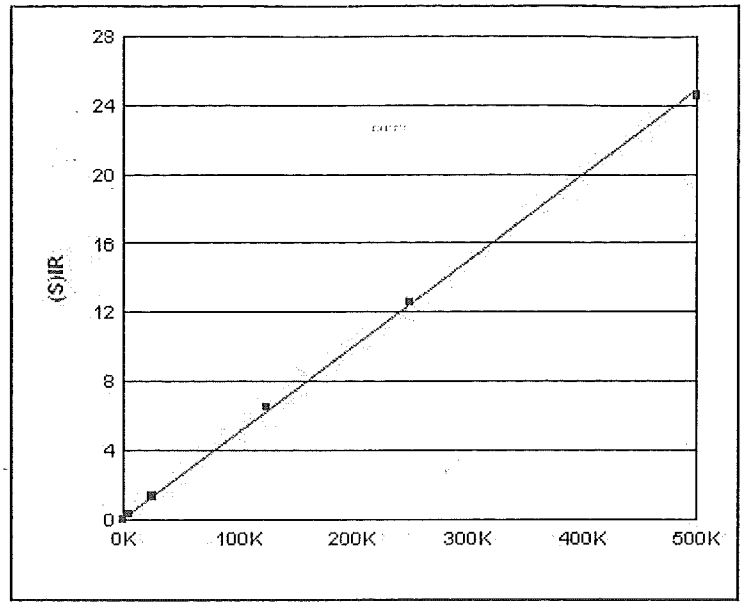


Element Name:	Cd
Element Wavelength:	Cd 214.438 nm
Concentration Units:	ug/L
Date of Calibration:	06/30/2015 15:09:32
Date of Fit:	06/30/2015 15:09:32
Type of Fit:	Linear
Correlation:	0.99991
A0 (Offset):	-0.00063080
A1 (Gain):	0.0023703
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		**QC Normalize**	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

Concentration

Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
S0	0.00000	-0.0010125	-0.0010125	0.00000	-0.00063320	0.000048857	1
SA	5.0000	5.4127	0.41272	8.2544	0.012204	0.000055899	1
SB	80.000	83.768	3.7681	4.7102	0.19799	0.00083185	1
SC	800.00	841.01	41.011	5.1263	1.9931	0.0054952	1
SD	2,000.0	2,065.0	65.043	3.2522	4.8972	0.013080	1
SE	10,000	9,891.6	-108.41	-1.0841	23.461	0.046279	1
SF	20,000	19,998	-1.8078	-0.0090389	47.401	0.40762	1

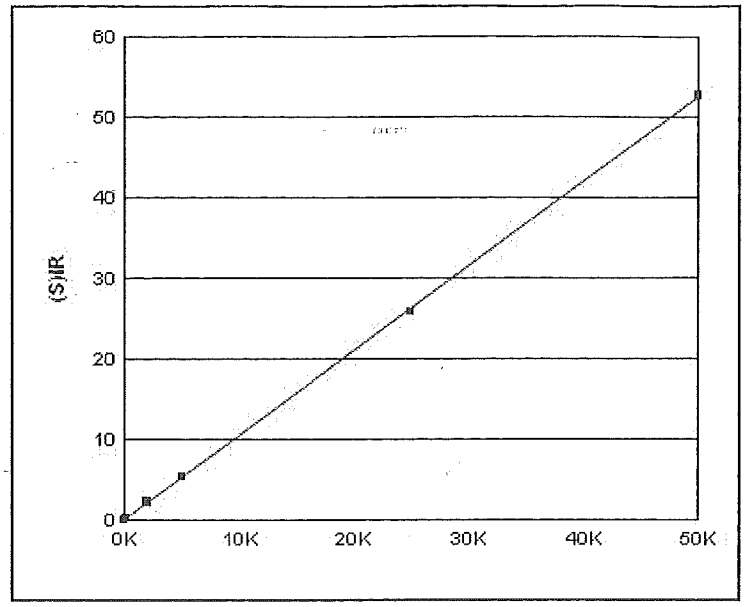


Element Name:	Ca
Element Wavelength:	Ca 317.933 nm
Concentration Units:	ug/L
Date of Calibration:	06/30/2015 15:12:34
Date of Fit:	06/30/2015 15:12:34
Type of Fit:	Linear
Correlation:	0.99975
A0 (Offset):	0.0029515
A1 (Gain):	0.000049913
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		**QC Normalize**	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

Concentration

Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
S0	0.00000	-0.87742	-0.87742	0.00000	0.0029077	0.00011825	1
SA	5,000.0	5,446.0	445.98	8.9195	0.27478	0.00067776	1
SB	25,000	26,448	1,447.8	5.7911	1.3230	0.0027925	1
SD	125,000	129,920	4,923.5	3.9388	6.4878	0.024491	1
SE	250,000	251,310	1,311.9	0.52475	12.547	0.038023	1
S500000	500,000	491,870	-8,129.1	-1.6258	24.554	0.20226	1

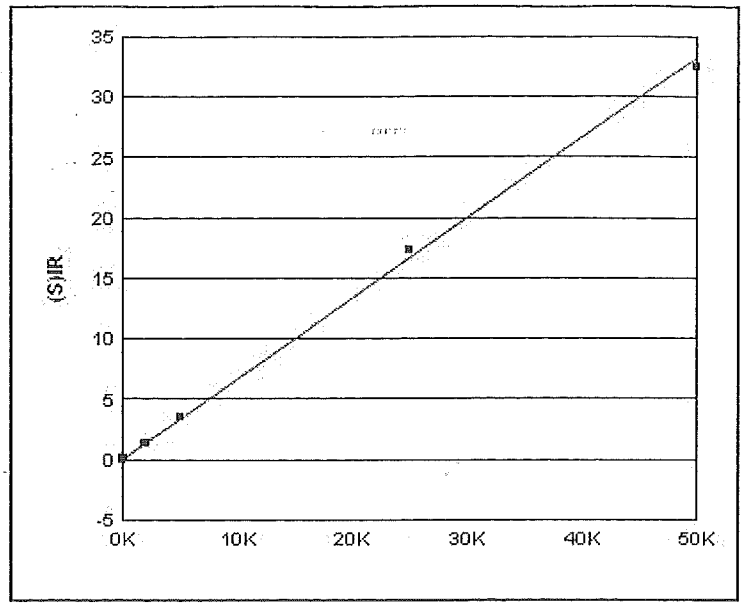


Element Name:	Cr
Element Wavelength:	Cr 205.552 nm
Concentration Units:	ug/L
Date of Calibration:	06/30/2015 15:09:32
Date of Fit:	06/30/2015 15:09:32
Type of Fit:	Linear
Correlation:	0.99993
A0 (Offset):	0.00050772
A1 (Gain):	0.0010486
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		**QC Normalize**	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

Concentration

Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
S0	0.00000	-0.0014305	-0.0014305	0.00000	0.00050622	0.00019730	1
SA	10.000	10.709	0.70854	7.0854	0.011746	0.00018307	1
SB	200.00	204.91	4.9126	2.4563	0.21545	0.0010317	1
SC	2,000.0	2,082.4	82.392	4.1196	2.1849	0.0032106	1
SD	5,000.0	5,087.1	87.107	1.7421	5.3367	0.011466	1
SE	25,000	24,626	-374.07	-1.4963	25.833	0.068373	1
SF	50,000	50,199	198.95	0.39791	52.658	0.60556	1

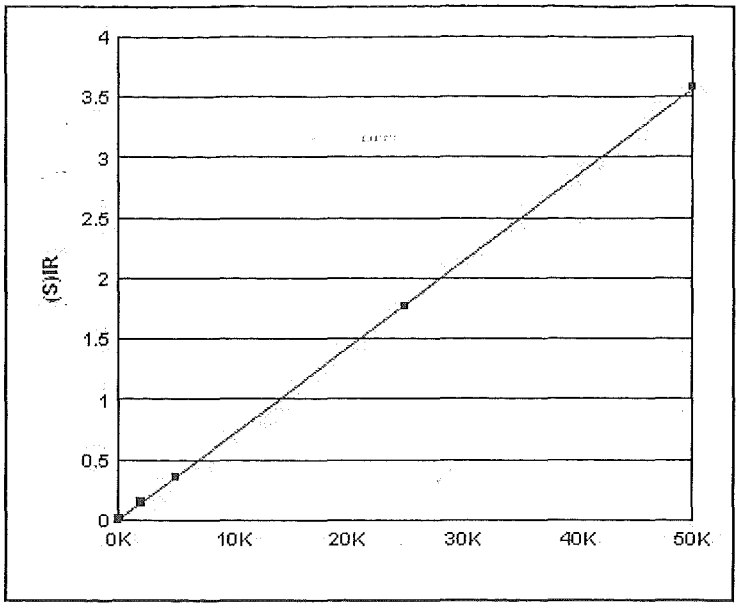


Element Name:	Co
Element Wavelength:	Co 228.616 nm
Concentration Units:	ug/L
Date of Calibration:	06/30/2015 15:09:32
Date of Fit:	06/30/2015 15:09:32
Type of Fit:	Linear
Correlation:	0.99955
A0 (Offset):	-0.00034290
A1 (Gain):	0.00066426
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		**QC Normalize**	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

Concentration

Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
S0	0.00000	-0.00089071	-0.00089071	0.00000	-0.00034350	0.00014897	1
SA	50.000	50.245	0.24505	0.49009	0.033095	0.00026780	1
SB	200.00	196.59	-3.4108	-1.7054	0.13044	0.00071677	1
SC	2,000.0	1,949.8	-50.182	-2.5091	1.2960	0.0010730	1
SD	5,000.0	5,188.6	188.63	3.7725	3.4496	0.0092803	1
SE	25,000	26,002	1,002.1	4.0085	17.289	0.047166	1
SF	50,000	48,862	-1,137.6	-2.2752	32.485	0.36714	1

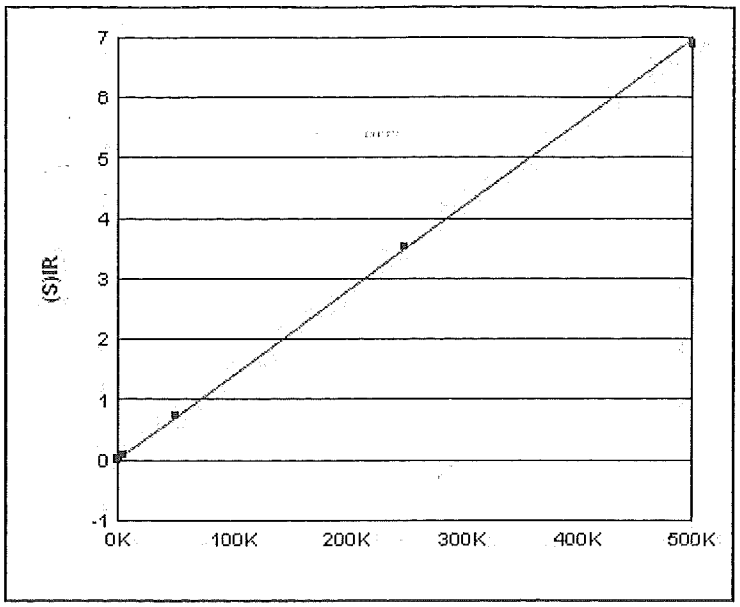


Element Name:	Cu
Element Wavelength:	Cu 327.396 nm
Concentration Units:	ug/L
Date of Calibration:	06/30/2015 15:09:32
Date of Fit:	06/30/2015 15:09:32
Type of Fit:	Linear
Correlation:	0.99997
A0 (Offset):	0.00039285
A1 (Gain):	0.000071213
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		**QC Normalize**	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

Concentration

Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
S0	0.00000	0.00015241	0.00015241	0.00000	0.00039286	0.000040748	1
SA	25.000	25.857	0.85707	3.4283	0.0022339	0.000034871	1
SB	200.00	195.48	-4.5162	-2.2581	0.014311	0.00014610	1
SC	2,000.0	2,006.0	6.0005	0.30002	0.14322	0.0010458	1
SD	5,000.0	4,909.0	-90.981	-1.8196	0.34991	0.00030058	1
SE	25,000	24,781	-218.76	-0.87505	1.7648	0.022940	1
SF	50,000	50,307	307.40	0.61481	3.5823	0.020859	1

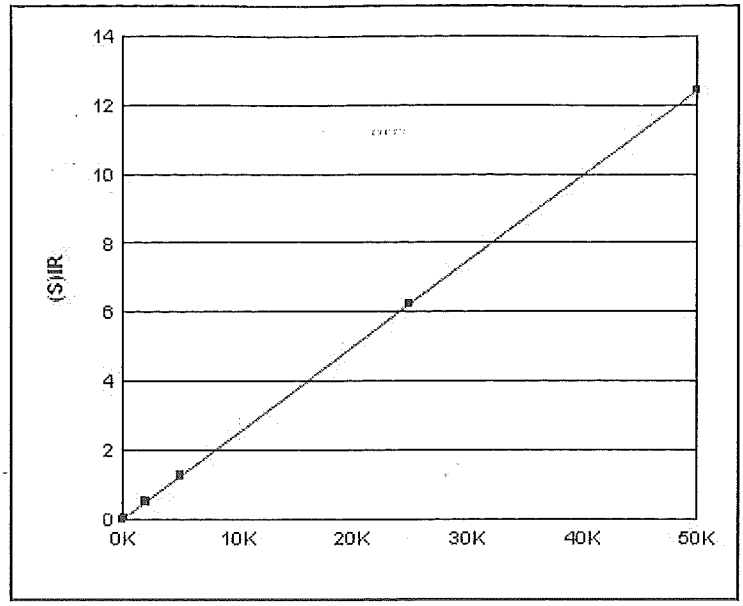


Element Name:	Fe
Element Wavelength:	Fe 259.837 nm
Concentration Units:	ug/L
Date of Calibration:	06/30/2015 15:12:34
Date of Fit:	06/30/2015 15:12:34
Type of Fit:	Linear
Correlation:	0.99984
A0 (Offset):	-0.000090137
A1 (Gain):	0.000013927
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

Concentration

Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
S0	0.00000	-0.044524	-0.044524	0.00000	-0.000090757	0.000043151	1
SA	100.00	124.77	24.765	24.765	0.0016480	0.00010501	1
SB	1,000.00	1,077.1	77.063	7.7063	0.014918	0.000025354	1
SC	5,000.0	5,350.9	350.94	7.0187	0.074509	0.00027778	1
SD	50,000	52,566	2,565.5	5.1310	0.73217	0.0021065	1
SE	250,000	252,530	2,532.1	1.0128	3.5178	0.012201	1
S500000	500,000	494,450	-5,552.2	-1.1104	6.8859	0.051240	1

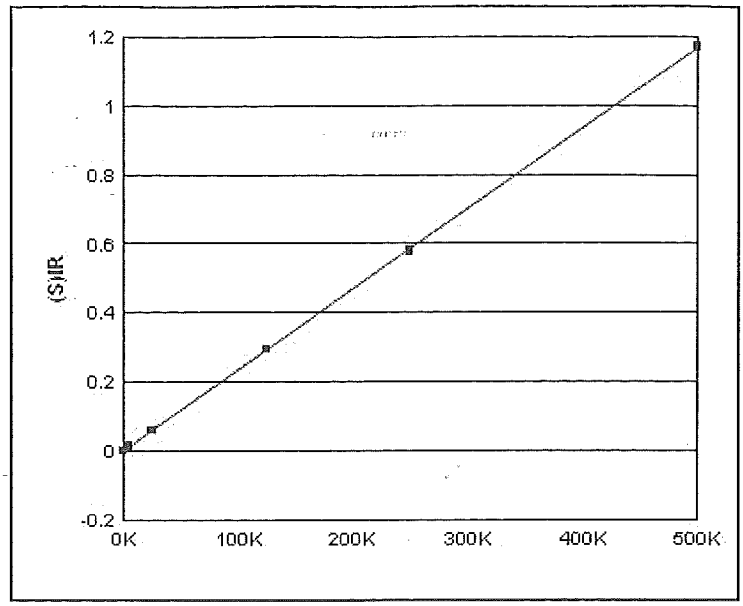


Element Name:	Pb
Element Wavelength:	Pb 220.353 nm
Concentration Units:	ug/L
Date of Calibration:	06/30/2015 15:09:32
Date of Fit:	06/30/2015 15:09:32
Type of Fit:	Linear
Correlation:	1.00000
A0 (Offset):	0.00094801
A1 (Gain):	0.00024850
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

Concentration

Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
S0	0.00000	-0.00010764	-0.00010764	0.00000	0.00094798	0.00032543	1
SA	10.000	10.327	0.32666	3.2666	0.0035337	0.00028299	1
SB	200.00	195.50	-4.4972	-2.2486	0.049642	0.00036279	1
SC	2,000.0	1,983.2	-16.784	-0.83919	0.49456	0.00025358	1
SD	5,000.0	5,043.2	43.178	0.86357	1.2586	0.0021788	1
SE	25,000	25,039	39.433	0.15773	6.2453	0.013044	1
SF	50,000	49,938	-61.859	-0.12372	12.422	0.11874	1

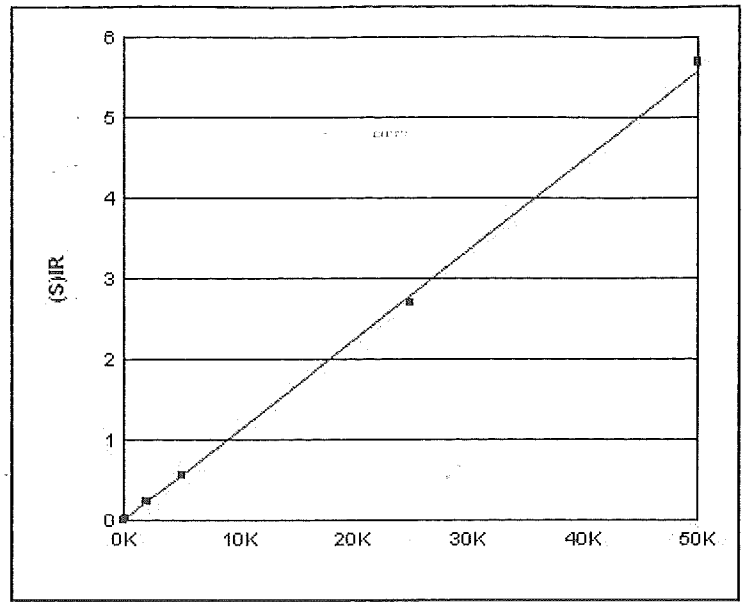


Element Name:	Mg
Element Wavelength:	Mg 279.079 nm
Concentration Units:	ug/L
Date of Calibration:	06/30/2015 15:12:34
Date of Fit:	06/30/2015 15:12:34
Type of Fit:	Linear
Correlation:	0.99996
A0 (Offset):	-0.000085063
A1 (Gain):	0.0000023355
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

Concentration

Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
S0	0.00000	-0.41546	-0.41546	0.00000	-0.000086034	0.000011881	1
SA	5,000.0	5,295.4	295.38	5.9077	0.012282	0.000038616	1
SB	25,000	25,628	627.52	2.5101	0.059767	0.00014932	1
SD	125,000	125,980	982.75	0.78620	0.29414	0.0011569	1
SE	250,000	247,430	-2,567.6	-1.0270	0.57778	0.0012062	1
S500000	500,000	500,660	661.93	0.13239	1.1692	0.0074889	1

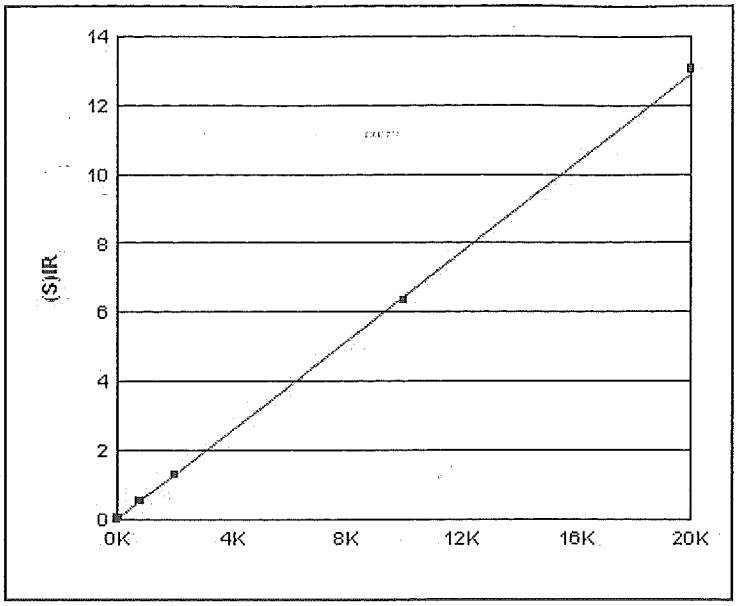


Element Name:	Mn
Element Wavelength:	Mn 257.610 nm
Concentration Units:	ug/L
Date of Calibration:	06/30/2015 15:09:32
Date of Fit:	06/30/2015 15:09:32
Type of Fit:	Linear
Correlation:	0.99971
A0 (Offset):	0.000066300
A1 (Gain):	0.00011178
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		**QC Normalize**	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

Concentration

Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
S0	0.00000	-0.0012605	-0.0012605	0.00000	0.000066159	0.000055826	1
SA	15.000	15.898	0.89825	5.9883	0.0018435	0.000077317	1
SB	200.00	203.27	3.2724	1.6362	0.022789	0.000057878	1
SC	2,000.0	2,063.6	63.616	3.1808	0.23075	0.00046817	1
SD	5,000.0	4,971.7	-28.341	-0.56682	0.55582	0.00075114	1
SE	25,000	24,122	-878.06	-3.5122	2.6965	0.0033823	1
SF	50,000	50,839	838.61	1.6772	5.6830	0.040094	1

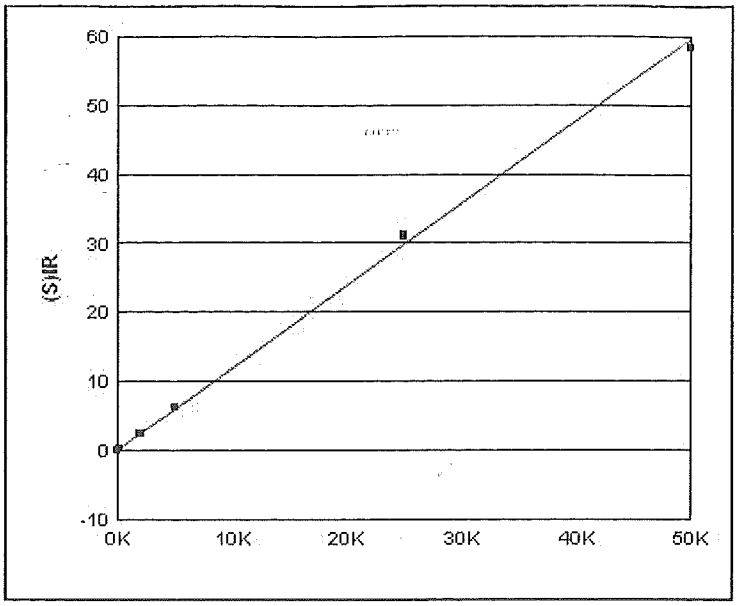


Element Name:	Mo
Element Wavelength:	Mo 202.030 nm
Concentration Units:	ug/L
Date of Calibration:	06/30/2015 15:09:32
Date of Fit:	06/30/2015 15:09:32
Type of Fit:	Linear
Correlation:	0.99991
A0 (Offset):	0.00055518
A1 (Gain):	0.00064593
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		**QC Normalize**	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

Concentration

Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
S0	0.00000	0.00060933	0.00060933	0.00000	0.00055557	0.00020295	1
SA	10.000	9.3333	-0.66667	-6.6667	0.0065833	0.00028187	1
SB	80.000	80.564	0.56446	0.70557	0.052589	0.00018003	1
SC	800.00	800.70	0.69513	0.086891	0.51772	0.0018225	1
SD	2,000.0	2,017.0	17.014	0.85070	1.3031	0.0024392	1
SE	10,000	9,803.7	-196.30	-1.9630	6.3318	0.012611	1
SF	20,000	20,179	178.66	0.89330	13.035	0.11032	1

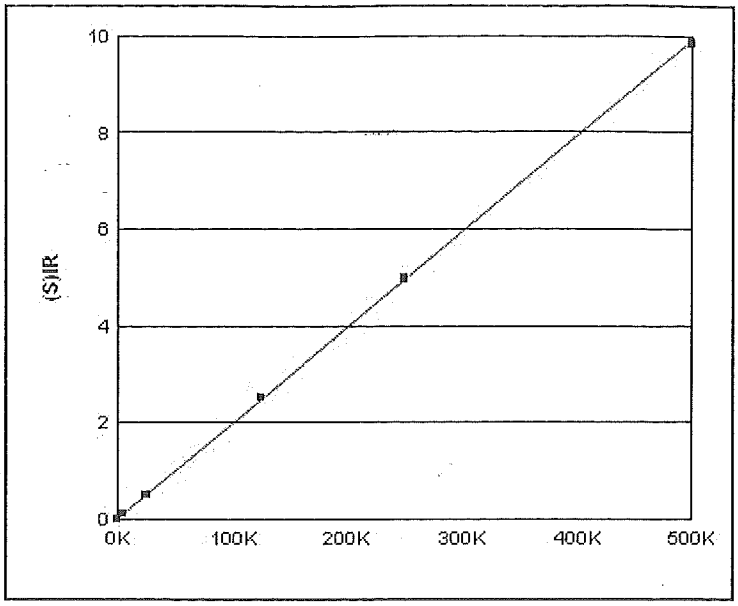


Element Name:	Ni
Element Wavelength:	Ni 231.604 nm
Concentration Units:	ug/L
Date of Calibration:	06/30/2015 15:09:32
Date of Fit:	06/30/2015 15:09:32
Type of Fit:	Linear
Correlation:	0.99955
A0 (Offset):	-0.00020933
A1 (Gain):	0.0011936
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		**QC Normalize**	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

Concentration

Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
S0	0.00000	0.00042177	0.00042177	0.00000	-0.00020882	0.00037200	1
SA	40.000	38.911	-1.0894	-2.7234	0.046275	0.00061532	1
SB	200.00	197.23	-2.7730	-1.3865	0.23540	0.00051057	1
SC	2,000.0	1,952.2	-47.776	-2.3888	2.3316	0.0018252	1
SD	5,000.0	5,184.6	184.59	3.6919	6.1950	0.013615	1
SE	25,000	26,010	1,009.9	4.0396	31.080	0.094406	1
SF	50,000	48,856	-1,143.6	-2.2872	58.346	0.68455	1

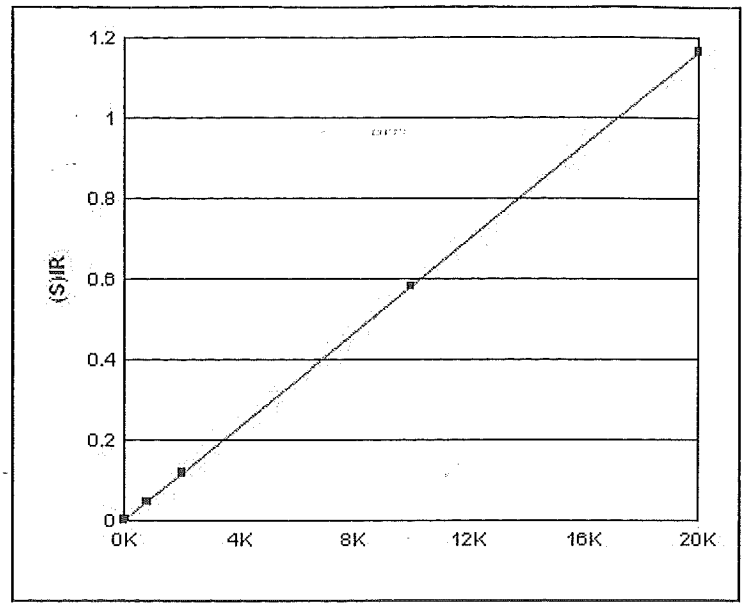


Element Name:	K
Element Wavelength:	K 766.490 nm
Concentration Units:	ug/L
Date of Calibration:	06/30/2015 15:12:34
Date of Fit:	06/30/2015 15:12:34
Type of Fit:	Linear
Correlation:	0.99998
A0 (Offset):	0.0018417
A1 (Gain):	0.000019817
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		**QC Normalize**	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

Concentration

Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
S0	0.00000	-0.14299	-0.14299	0.00000	0.0018389	0.00066511	1
SA	5,000.0	5,080.2	80.161	1.6032	0.10252	0.00076195	1
SB	25,000	25,076	75.872	0.30349	0.49878	0.0011094	1
SD	125,000	126,340	1,339.6	1.0717	2.5055	0.0047341	1
SE	250,000	250,900	902.71	0.36109	4.9740	0.0039892	1
S500000	500,000	497,600	-2,398.4	-0.47967	9.8629	0.077429	1

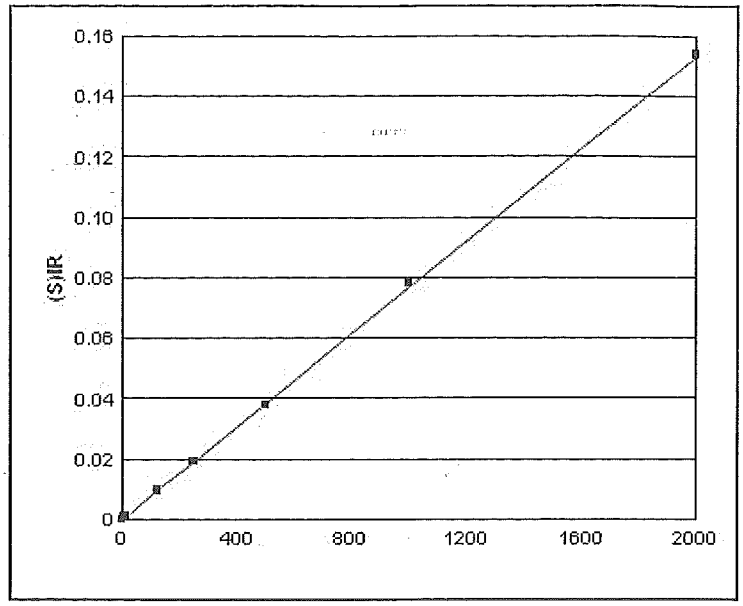


Element Name:	Se
Element Wavelength:	Se 196.090 nm
Concentration Units:	ug/L
Date of Calibration:	06/30/2015 15:09:32
Date of Fit:	06/30/2015 15:09:32
Type of Fit:	Linear
Correlation:	0.99999
A0 (Offset):	0.00048547
A1 (Gain):	0.000058021
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		**QC Normalize**	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

Concentration

Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
S0	0.00000	0.0024169	0.0024169	0.00000	0.00048562	0.00023782	1
SA	35.000	34.430	-0.56988	-1.6282	0.0024842	0.000055823	1
SB	80.000	77.326	-2.6736	-3.3420	0.0049814	0.000084440	1
SC	800.00	783.15	-16.852	-2.1065	0.046000	0.00024008	1
SD	2,000.0	2,005.3	5.2519	0.26259	0.11716	0.00050249	1
SE	10,000	9,966.8	-33.154	-0.33154	0.58041	0.00055920	1
SF	20,000	20,048	48.051	0.24026	1.1651	0.0036066	1

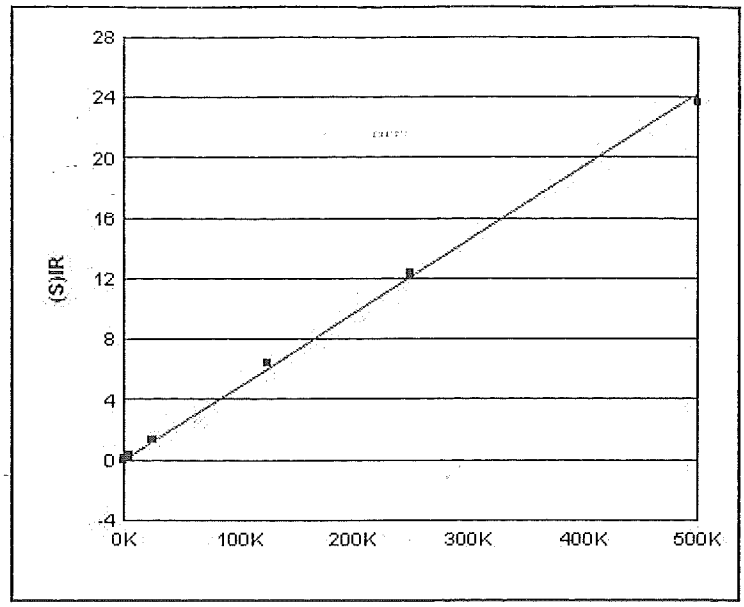


Element Name:	Ag
Element Wavelength:	Ag 328.068 nm
Concentration Units:	ug/L
Date of Calibration:	06/30/2015 15:09:32
Date of Fit:	06/30/2015 15:09:32
Type of Fit:	Linear
Correlation:	0.99995
A0 (Offset):	0.0000023928
A1 (Gain):	0.000076605
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		**QC Normalize**	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

Concentration

Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
S0	0.00000	0.00013501	0.00013501	0.00000	0.0000024032	0.000022987	1
SA	10.000	10.072	0.072019	0.72019	0.00077456	0.0000047391	1
SB	125.00	123.38	-1.6195	-1.2956	0.0094582	0.000054044	1
SC	250.00	248.88	-1.1182	-0.44727	0.019111	0.00012626	1
SD	500.00	491.90	-8.1006	-1.6201	0.037792	0.00016247	1
SE	1,000.00	1,015.1	15.137	1.5137	0.078306	0.00064969	1
SF	2,000.0	1,995.6	-4.4201	-0.22101	0.15395	0.00071017	1

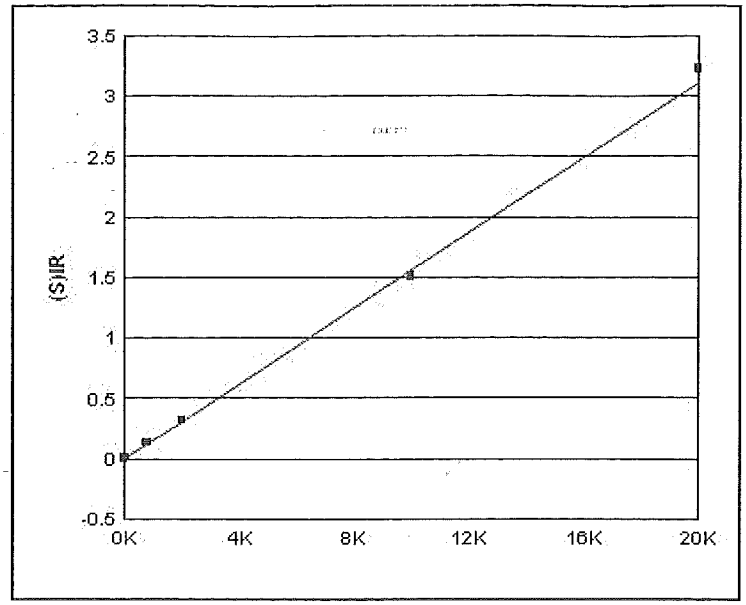


Element Name:	Na
Element Wavelength:	Na 589.592 nm
Concentration Units:	ug/L
Date of Calibration:	06/30/2015 15:12:34
Date of Fit:	06/30/2015 15:12:34
Type of Fit:	Linear
Correlation:	0.99950
A0 (Offset):	-0.00098812
A1 (Gain):	0.000048489
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

Concentration

Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
S0	0.00000	-1.0284	-1.0284	0.00000	-0.0010380	0.00020542	1
SA	5,000.0	5,475.0	475.03	9.5005	0.26449	0.0010260	1
SB	25,000	26,640	1,639.8	6.5591	1.2907	0.00010116	1
SD	125,000	132,210	7,212.4	5.7699	6.4098	0.0047062	1
SE	250,000	253,020	3,024.6	1.2099	12.268	0.13450	1
S500000	500,000	487,650	-12,352	-2.4704	23.644	0.039818	1

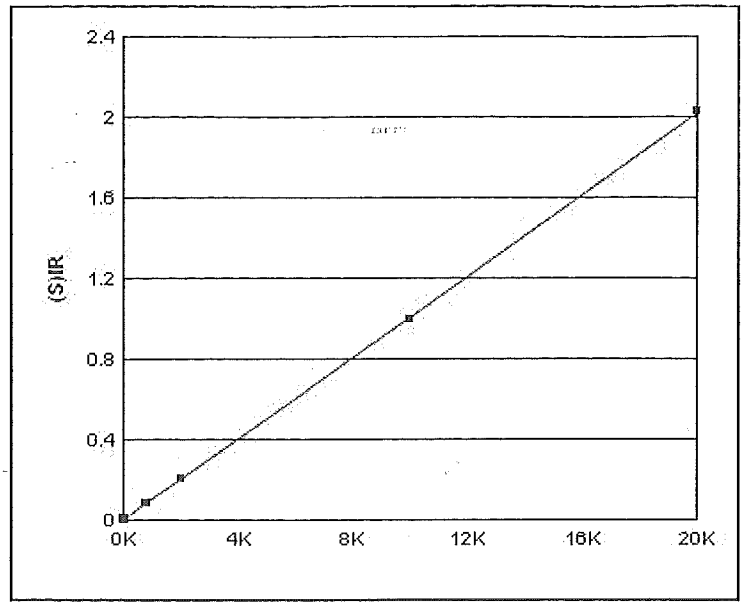


Element Name:	Tl
Element Wavelength:	Tl 190.856 nm
Concentration Units:	ug/L
Date of Calibration:	06/30/2015 15:09:32
Date of Fit:	06/30/2015 15:09:32
Type of Fit:	Linear
Correlation:	0.99949
A0 (Offset):	-0.00069638
A1 (Gain):	0.00015530
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		**QC Normalize**	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

Concentration

Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
S0	0.00000	-0.0036553	-0.0036553	0.00000	-0.00069695	0.00034580	1
SA	25.000	27.752	2.7517	11.007	0.0036612	0.00014380	1
SB	80.000	80.654	0.65436	0.81795	0.012043	0.00027867	1
SC	800.00	846.94	46.941	5.8677	0.13299	0.00049677	1
SD	2,000.0	1,990.1	-9.8579	-0.49289	0.31367	0.0012732	1
SE	10,000	9,525.0	-474.95	-4.7495	1.5050	0.0060484	1
SF	20,000	20,434	434.30	2.1715	3.2269	0.021770	1

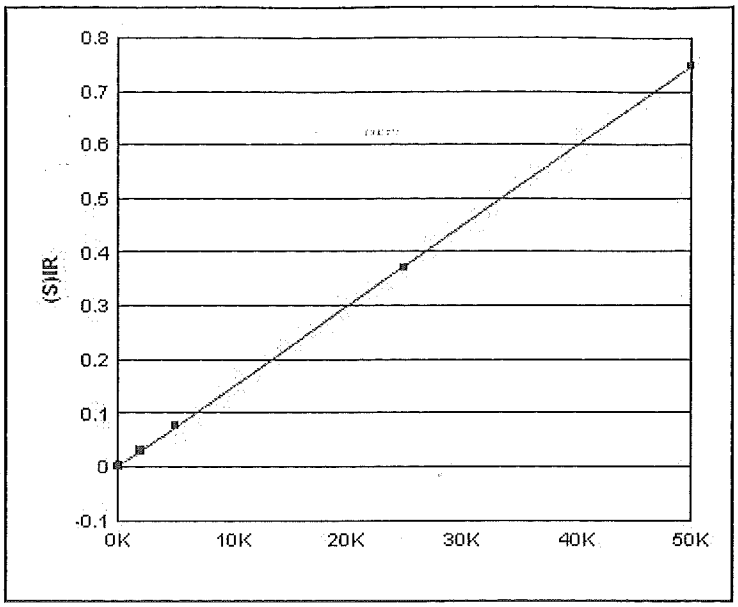


Element Name:	Ti
Element Wavelength:	Ti 334.941 nm
Concentration Units:	ug/L
Date of Calibration:	06/30/2015 15:09:32
Date of Fit:	06/30/2015 15:09:32
Type of Fit:	Linear
Correlation:	0.99995
A0 (Offset):	0.00014280
A1 (Gain):	0.00010063
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		**QC Normalize**	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

Concentration

Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
S0	0.00000	-0.000069175	-0.000069175	0.00000	0.00014280	0.000057347	1
SA	25.000	25.292	0.29250	1.1700	0.0026962	0.00012086	1
SB	80.000	81.391	1.3911	1.7389	0.0083792	0.000069305	1
SC	800.00	785.00	-15.002	-1.8752	0.079202	0.000015503	1
SD	2,000.0	1,995.9	-4.0803	-0.20401	0.20135	0.00066565	1
SE	10,000	9,872.0	-128.04	-1.2804	0.99477	0.0011743	1
SF	20,000	20,145	145.48	0.72741	2.0290	0.015450	1

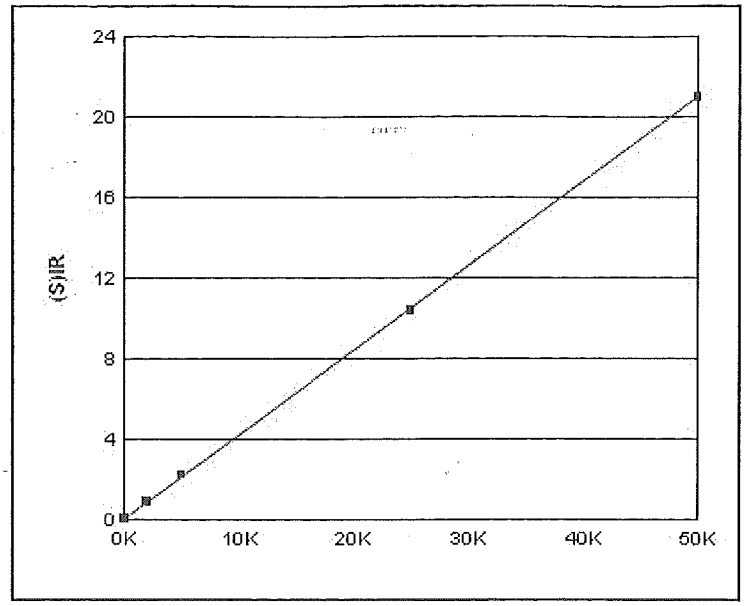


Element Name:	V
Element Wavelength:	V 292.402 nm
Concentration Units:	ug/L
Date of Calibration:	06/30/2015 15:09:32
Date of Fit:	06/30/2015 15:09:32
Type of Fit:	Linear
Correlation:	0.99998
A0 (Offset):	-0.0000068190
A1 (Gain):	0.000014944
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

Concentration

Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
S0	0.00000	-0.0042811	-0.0042811	0.00000	-0.0000068829	0.0000071841	1
SA	50.000	52.609	2.6093	5.2187	0.00077966	0.0000043513	1
SB	200.00	203.05	3.0548	1.5274	0.0030282	0.0000097946	1
SC	2,000.0	2,007.1	7.0674	0.35337	0.029990	0.00019762	1
SD	5,000.0	5,100.5	100.49	2.0097	0.076246	0.00081536	1
SE	25,000	24,840	-160.28	-0.64113	0.37135	0.0014185	1
SF	50,000	50,047	47.086	0.094172	0.74789	0.0042188	1



Element Name:	Zn
Element Wavelength:	Zn 206.200 nm
Concentration Units:	ug/L
Date of Calibration:	06/30/2015 15:09:32
Date of Fit:	06/30/2015 15:09:32
Type of Fit:	Linear
Correlation:	0.99990
A0 (Offset):	0.00089940
A1 (Gain):	0.00041969
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		**QC Normalize**	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

Concentration

Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
S0	0.00000	-0.010829	-0.010829	0.00000	0.00089486	0.00013088	1
SA	60.000	63.879	3.8788	6.4647	0.027710	0.00016843	1
SB	200.00	208.87	8.8721	4.4360	0.088557	0.00069698	1
SC	2,000.0	2,083.9	83.870	4.1935	0.87542	0.0035943	1
SD	5,000.0	5,207.6	207.63	4.1527	2.1865	0.0057999	1
SE	25,000	24,705	-294.82	-1.1793	10.370	0.023179	1
SF	50,000	49,991	-9.4294	-0.018859	20.979	0.21330	1

Sample Name: S0 Acquired: 06/30/2015 14:49:45 Type: Cal
Method: ICP08 ISM01.3 2015(v11) Mode: IR Corr. Factor: 1.000000
User: Neil.Edwards SDG#: MF9K15 CASE#: 45299 Prep:
Comment:

RUN# 45127
06/30/2015

Elem	Al3082	Sb2068	As1890	Ba4554	Be3131	Cd2144	Ca3179
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00042**	**.00006**	**.00001**	**.00250**	**.00000**	**-.00063**	**.00291**
Stddev	.00001	.00008	.00019	.00007	.00007	.00005	.00012
%RSD	2.5098	144.10	2239.7	2.5978	1480.3	7.7159	4.0669
#1	.00044	-.00004	-.00013	.00256	-.00001	-.00061	.00278
#2	.00042	.00012	-.00006	.00252	.00008	-.00069	.00292
#3	.00042	.00009	.00022	.00243	-.00006	-.00060	.00302

Elem	Cr2055	Co2286	Cu3273	Fe2598	Pb2203	Mg2790	Mn2576
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00051**	**-.00034**	**.00039**	**-.00009**	**.00095**	**-.00009**	**.00007**
Stddev	.00020	.00015	.00004	.00004	.00033	.00001	.00006
%RSD	38.975	43.368	10.372	47.546	34.328	13.809	84.381
#1	.00035	-.00028	.00040	-.00006	.00059	-.00009	.00001
#2	.00044	-.00024	.00035	-.00007	.00124	-.00007	.00012
#3	.00073	-.00051	.00043	-.00014	.00101	-.00009	.00006

Elem	Mo2020	Ni2316	K_7664	Se1960	Ag3280	Na5895	Tl1908
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00056**	**-.00021**	**.00184**	**.00049**	**.00000**	**-.00104**	**-.00070**
Stddev	.00020	.00037	.00067	.00024	.00002	.00021	.00035
%RSD	36.530	178.14	36.169	48.974	956.52	19.790	49.616
#1	.00061	.00000	.00227	.00076	.00003	-.00115	-.00048
#2	.00073	-.00064	.00217	.00035	.00000	-.00116	-.00052
#3	.00033	.00001	.00107	.00035	-.00002	-.00080	-.00110

Elem	Ti3349	V_2924	Zn2062
Units	Cts/S	Cts/S	Cts/S
Avg	**.00014**	**-.00001**	**.00089**
Stddev	.00006	.00001	.00013
%RSD	40.160	104.38	14.626
#1	.00020	.00000	.00080
#2	.00014	.00000	.00104
#3	.00009	-.00002	.00084

Sample Name: S0 Acquired: 06/30/2015 14:49:45 Type: Cal
Method: ICP08 ISM01.3 2015(v11) Mode: IR Corr. Factor: 1.000000
User: Neil.Edwards SDG#: MF9K15 CASE#: 45299 Prep:
Comment:

Int. Std.	Sc2273	Sc3613	Sc3613-2	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3738.0**	**34402.**	**493140.**	**4769.5**	**15406.**	**232010.**
Stddev	7.0	75.	3700.	14.1	38.	1329.
%RSD	.18667	.21734	.75033	.29497	.24652	.57286
#1	3733.1	34468.	491850.	4756.1	15414.	233260.
#2	3746.0	34418.	497310.	4784.2	15439.	232140.
#3	3735.0	34321.	490250.	4768.4	15364.	230610.

Sample Name: SA Acquired: 06/30/2015 14:52:41 Type: Cal
Method: ICP08 ISM01.3 2015(v11) Mode: IR Corr. Factor: 1.000000
User: Neil.Edwards SDG#: MF9K15 CASE#: 45299 Prep:
Comment:

Elem	Al3082	Sb2068	As1890	Ba4554	Be3131	Cd2144	Ca3179	Cr2055
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00097**	**.00696**	**.00092**	**.15664**	**.00233**	**.01220**	**.27478**	**.01175**
Stddev	.00001	.00016	.00007	.00114	.00002	.00006	.00068	.00018
%RSD	.77918	2.3308	7.4050	.73050	.88425	.45803	.24666	1.5586
#1	.00097	.00687	.00089	.15790	.00232	.01214	.27424	.01157
#2	.00097	.00715	.00100	.15567	.00236	.01225	.27455	.01194
#3	.00098	.00687	.00087	.15634	.00232	.01222	.27554	.01173

Elem	Co2286	Cu3273	Fe2598	Pb2203	Mg2790	Mn2576	Mo2020	Ni2316
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.03310**	**.00223**	**.00165**	**.00353**	**.01228**	**.00184**	**.00658**	**.04628**
Stddev	.00027	.00003	.00011	.00028	.00004	.00008	.00028	.00062
%RSD	.80918	1.5610	6.3721	8.0082	.31441	4.1941	4.2816	1.3297
#1	.03340	.00227	.00176	.00385	.01224	.00187	.00643	.04666
#2	.03299	.00223	.00155	.00345	.01232	.00191	.00691	.04660
#3	.03289	.00220	.00163	.00330	.01228	.00176	.00641	.04557

Elem	K_7664	Se1960	Ag3280	Na5895	Tl1908	Ti3349	V_2924	Zn2062
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.10252**	**.00248**	**.00077**	**.26449**	**.00366**	**.00270**	**.00078**	**.02771**
Stddev	.00076	.00006	.00000	.00103	.00014	.00012	.00000	.00017
%RSD	.74325	2.2471	.61184	.38793	3.9278	4.4826	.55811	.60785
#1	.10321	.00250	.00078	.26354	.00378	.00279	.00078	.02765
#2	.10170	.00242	.00077	.26435	.00350	.00256	.00078	.02790
#3	.10263	.00253	.00078	.26558	.00370	.00274	.00078	.02758

Int. Std.	Sc2273	Sc3613	Sc3613-2	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3641.8**	**34190.**	**487680.**	**4719.1**	**15314.**	**229420.**
Stddev	7.7	367.	1144.	16.1	153.	2303.
%RSD	.21059	1.0731	.23462	.34053	1.0019	1.0037
#1	3650.6	34356.	488980.	4734.5	15436.	227110.
#2	3637.0	34444.	487220.	4720.3	15364.	229450.
#3	3637.8	33769.	486830.	4702.4	15141.	231710.

Sample Name: SB Acquired: 06/30/2015 14:55:37 Type: Cal
Method: ICP08 ISM01.3 2015(v11) Mode: IR Corr. Factor: 1.000000
User: Neil.Edwards SDG#: MF9K15 CASE#: 45299 Prep:
Comment:

Elem	Al3082	Sb2068	As1890	Ba4554	Be3131	Cd2144	Ca3179	Cr2055
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00296**	**.02334**	**.00665**	**.55738**	**.03640**	**.19799**	**1.3230**	**.21545**
Stddev	.00003	.00003	.00002	.00092	.00007	.00083	.0028	.00103
%RSD	1.1208	.13045	.28317	.16432	.19119	.42016	.21107	.47886
#1	.00298	.02337	.00663	.55641	.03634	.19846	1.3203	.21656
#2	.00298	.02332	.00666	.55823	.03638	.19847	1.3258	.21529
#3	.00292	.02333	.00666	.55751	.03647	.19703	1.3230	.21452

Elem	Co2286	Cu3273	Fe2598	Pb2203	Mg2790	Mn2576	Mo2020	Ni2316
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.13044**	**.01431**	**.01492**	**.04964**	**.05977**	**.02279**	**.05259**	**.23540**
Stddev	.00072	.00015	.00003	.00036	.00015	.00006	.00018	.00051
%RSD	.54949	1.0209	.16996	.73082	.24983	.25397	.34233	.21689
#1	.13126	.01433	.01492	.04940	.05967	.02277	.05280	.23576
#2	.13016	.01445	.01494	.05006	.05970	.02274	.05248	.23562
#3	.12991	.01416	.01489	.04947	.05994	.02285	.05249	.23482

Elem	K_7664	Se1960	Ag3280	Na5895	Tl1908	Ti3349	V_2924	Zn2062
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.49878**	**.00498**	**.00946**	**1.2907**	**.01204**	**.00838**	**.00303**	**.08856**
Stddev	.00111	.00008	.00005	.0001	.00028	.00007	.00001	.00070
%RSD	.22242	1.6951	.57140	.00784	2.3139	.82710	.32344	.78704
#1	.50005	.00488	.00941	1.2906	.01175	.00835	.00303	.08935
#2	.49821	.00504	.00952	1.2908	.01231	.00833	.00302	.08805
#3	.49807	.00502	.00944	1.2907	.01207	.00846	.00304	.08827

Int. Std.	Sc2273	Sc3613	Sc3613-2	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3427.7**	**34366.**	**479940.**	**4598.5**	**15177.**	**222080.**
Stddev	12.2	51.	2450.	19.3	10.	1397.
%RSD	.35566	.14954	.51054	.41946	.06397	.62909
#1	3422.8	34411.	481710.	4578.6	15183.	222190.
#2	3418.7	34378.	480970.	4599.9	15182.	220630.
#3	3441.6	34310.	477140.	4617.1	15166.	223420.

Sample Name: SC Acquired: 06/30/2015 14:58:24 Type: Cal
Method: ICP08 ISM01.3 2015(v11) Mode: IR Corr. Factor: 1.000000
User: Neil.Edwards SDG#: MF9K15 CASE#: 45299 Prep:
Comment:

Elem	Al3082	Sb2068	As1890	Ba4554	Be3131	Cd2144	Cr2055	Co2286
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.01280**	**.23321**	**.06571**	**1.4643**	**.36095**	**1.9931**	**2.1849**	**1.2960**
Stddev	.00013	.00068	.00021	.0017	.00107	.0055	.0032	.0011
%RSD	.99206	.28970	.32574	.11314	.29567	.27571	.14695	.08279
#1	.01295	.23278	.06546	1.4633	.36213	1.9877	2.1820	1.2956
#2	.01273	.23399	.06586	1.4634	.36066	1.9930	2.1883	1.2953
#3	.01273	.23287	.06580	1.4662	.36005	1.9987	2.1843	1.2973

Elem	Cu3273	Fe2598	Pb2203	Mn2576	Mo2020	Ni2316	Se1960	Ag3280
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.14322**	**.07451**	**.49456**	**.23075**	**.51772**	**2.3316**	**.04600**	**.01911**
Stddev	.00105	.00028	.00025	.00047	.00182	.0018	.00024	.00013
%RSD	.73024	.37281	.05127	.20289	.35202	.07828	.52190	.66065
#1	.14366	.07482	.49458	.23124	.51563	2.3304	.04576	.01923
#2	.14397	.07443	.49430	.23030	.51895	2.3306	.04624	.01913
#3	.14202	.07428	.49481	.23070	.51859	2.3337	.04600	.01898

Elem	Tl1908	Ti3349	V_2924	Zn2062
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.13299**	**.07920**	**.02999**	**.87542**
Stddev	.00050	.00002	.00020	.00359
%RSD	.37355	.01957	.65896	.41059
#1	.13250	.07919	.02981	.87210
#2	.13296	.07920	.02996	.87490
#3	.13349	.07922	.03020	.87924

Int. Std.	Sc2273	Sc3613	Sc3613-2	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3718.8**	**35332.**	**500000.**	**4787.3**	**15492.**	**232030.**
Stddev	9.3	91.	1758.	2.8	58.	2106.
%RSD	.24932	.25793	.35164	.05783	.37561	.90751
#1	3708.3	35239.	501770.	4784.8	15426.	230440.
#2	3722.2	35421.	499980.	4786.7	15537.	231230.
#3	3725.9	35337.	498250.	4790.3	15514.	234410.

Sample Name: SD Acquired: 06/30/2015 15:01:04 Type: Cal
Method: ICP08 ISM01.3 2015(v11) Mode: IR Corr. Factor: 1.000000
User: Neil.Edwards SDG#: MF9K15 CASE#: 45299 Prep:
Comment:

Elem	Al3082	Sb2068	As1890	Ba4554	Be3131	Cd2144	Ca3179	Cr2055
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.11841**	**.57847**	**.17288**	**3.5893**	**.91455**	**4.8972**	**6.4878**	**5.3367**
Stddev	.00055	.00056	.00019	.0097	.00130	.0131	.0245	.0115
%RSD	.46343	.09725	.10857	.26875	.14191	.26708	.37750	.21484
#1	.11779	.57896	.17309	3.5811	.91446	4.9021	6.5099	5.3352
#2	.11863	.57786	.17282	3.5869	.91589	4.9071	6.4921	5.3489
#3	.11883	.57859	.17273	3.5999	.91330	4.8824	6.4615	5.3261

Elem	Co2286	Cu3273	Fe2598	Pb2203	Mg2790	Mn2576	Mo2020	Ni2316
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3.4496**	**.34991**	**.73217**	**1.2586**	**.29414**	**.55582**	**1.3031**	**6.1950**
Stddev	.0093	.00030	.00211	.0022	.00116	.00075	.0024	.0136
%RSD	.26902	.08590	.28770	.17311	.39330	.13514	.18718	.21978
#1	3.4437	.35024	.73388	1.2591	.29483	.55533	1.3014	6.1922
#2	3.4603	.34984	.73281	1.2605	.29479	.55669	1.3059	6.2098
#3	3.4449	.34965	.72982	1.2562	.29281	.55544	1.3022	6.1830

Elem	K_7664	Se1960	Ag3280	Na5895	Tl1908	Ti3349	V_2924	Zn2062
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2.5055**	**.11716**	**.03779**	**6.4098**	**.31367**	**.20135**	**.07625**	**2.1865**
Stddev	.0047	.00050	.00016	.0047	.00127	.00067	.00082	.0058
%RSD	.18894	.42889	.42990	.07342	.40592	.33059	1.0694	.26526
#1	2.5109	.11663	.03784	6.4152	.31363	.20159	.07640	2.1880
#2	2.5019	.11763	.03792	6.4075	.31496	.20060	.07536	2.1915
#3	2.5038	.11722	.03761	6.4068	.31242	.20187	.07697	2.1801

Int. Std.	Sc2273	Sc3613	Sc3613-2	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2977.5**	**34450.**	**454420.**	**4350.9**	**14904.**	**208050.**
Stddev	3.5	273.	3757.	4.6	144.	1214.
%RSD	.11595	.79358	.82677	.10629	.96685	.58348
#1	2981.5	34227.	453670.	4355.0	14775.	207890.
#2	2975.4	34368.	458500.	4351.8	14878.	206920.
#3	2975.7	34755.	451100.	4345.9	15060.	209340.

Sample Name: SE Acquired: 06/30/2015 15:03:38 Type: Cal
Method: ICP08 ISM01.3 2015(v11) Mode: IR Corr. Factor: 1.000000
User: Neil.Edwards SDG#: MF9K15 CASE#: 45299 Prep:
Comment:

Elem	Al3082	Sb2068	As1890	Ba4554	Be3131	Cd2144	Ca3179	Cr2055
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.58955**	**2.8888**	**.87664**	**17.487**	**4.4621**	**23.461**	**12.547**	**25.833**
Stddev	.00123	.0115	.00260	.143	.0074	.046	.038	.068
%RSD	.20870	.39622	.29636	.81800	.16570	.19726	.30305	.26468
#1	.59096	2.9010	.87951	17.642	4.4603	23.490	12.566	25.903
#2	.58868	2.8783	.87445	17.457	4.4702	23.485	12.571	25.829
#3	.58902	2.8872	.87595	17.360	4.4557	23.407	12.503	25.766

Elem	Co2286	Cu3273	Fe2598	Pb2203	Mg2790	Mn2576	Mo2020	Ni2316
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**17.289**	**1.7648**	**3.5178**	**6.2453**	**.57778**	**2.6965**	**6.3318**	**31.080**
Stddev	.047	.0229	.0122	.0130	.00121	.0034	.0126	.094
%RSD	.27282	1.2999	.34683	.20886	.20877	.12543	.19918	.30375
#1	17.342	1.7517	3.5235	6.2603	.57842	2.6993	6.3452	31.187
#2	17.271	1.7514	3.5262	6.2375	.57854	2.6975	6.3299	31.045
#3	17.253	1.7913	3.5038	6.2380	.57639	2.6928	6.3201	31.008

Elem	K_7664	Se1960	Ag3280	Na5895	Tl1908	Ti3349	V_2924	Zn2062
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4.9740**	**.58041**	**.07831**	**12.268**	**1.5050**	**.99477**	**.37135**	**10.370**
Stddev	.0040	.00056	.00065	.135	.0060	.00117	.00142	.023
%RSD	.08020	.09634	.82968	1.0964	.40188	.11805	.38199	.22352
#1	4.9723	.58092	.07785	12.376	1.5115	.99593	.37138	10.366
#2	4.9712	.58050	.07801	12.310	1.4995	.99480	.36992	10.394
#3	4.9786	.57981	.07905	12.117	1.5041	.99358	.37276	10.348

Int. Std.	Sc2273	Sc3613	Sc3613-2	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2688.1**	**33685.**	**431030.**	**4089.7**	**14725.**	**195100.**
Stddev	12.2	238.	55.	15.6	113.	681.
%RSD	.45245	.70648	.01269	.38128	.76879	.34896
#1	2674.1	33483.	430970.	4071.7	14631.	195880.
#2	2696.5	33625.	431050.	4099.0	14693.	194630.
#3	2693.7	33947.	431070.	4098.4	14850.	194790.

Sample Name: SF Acquired: 06/30/2015 15:06:36 Type: Cal
Method: ICP08 ISM01.3 2015(v11) Mode: IR Corr. Factor: 1.000000
User: Neil.Edwards SDG#: MF9K15 CASE#: 45299 Prep:
Comment:

Elem	Sb2068	As1890	Ba4554	Be3131	Cd2144	Cr2055	Co2286	Cu3273
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5.8973**	**1.6959**	**35.854**	**9.0142**	**47.401**	**52.658**	**32.485**	**3.5823**
Stddev	.0354	.0107	.183	.0182	.408	.606	.367	.0209
%RSD	.59983	.63360	.51079	.20171	.85994	1.1500	1.1302	.58230
#1	5.9301	1.7060	35.969	9.0349	47.764	53.246	32.874	3.6005
#2	5.9020	1.6973	35.951	9.0069	47.479	52.691	32.438	3.5868
#3	5.8598	1.6846	35.643	9.0007	46.960	52.037	32.144	3.5595

Elem	Pb2203	Mn2576	Mo2020	Ni2316	Se1960	Ag3280	Tl1908	Ti3349
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**12.422**	**5.6830**	**13.035**	**58.346**	**1.1651**	**.15395**	**3.2269**	**2.0290**
Stddev	.119	.0401	.110	.685	.0036	.00071	.0218	.0155
%RSD	.95588	.70551	.84637	1.1733	.30955	.46129	.67464	.76146
#1	12.550	5.7223	13.140	59.066	1.1692	.15477	3.2503	2.0448
#2	12.401	5.6846	13.043	58.267	1.1639	.15351	3.2232	2.0284
#3	12.316	5.6422	12.920	57.704	1.1623	.15358	3.2072	2.0139

Elem	V_2924	Zn2062
Units	Cts/S	Cts/S
Avg	**.74789**	**20.979**
Stddev	.00422	.213
%RSD	.56409	1.0167
#1	.75198	21.172
#2	.74355	21.015
#3	.74814	20.750

Int. Std.	Sc2273	Sc3613	Sc3613-2	Y_2243	Y_3710-2
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3407.0**	**35505.**	**482420.**	**4468.5**	**221410.**
Stddev	7.1	186.	2196.	12.4	1841.
%RSD	.20807	.52322	.45526	.27739	.83137
#1	3403.3	35311.	481220.	4480.9	220130.
#2	3415.1	35521.	484950.	4468.5	220570.
#3	3402.4	35682.	481080.	4456.1	223520.

Sample Name: S500000 Acquired: 06/30/2015 15:09:46 Type: Cal
Method: ICP08 ISM01.3 2015(v11) Mode: IR Corr. Factor: 1.000000
User: Neil.Edwards SDG#: MF9K15 CASE#: 45299 Prep:
Comment:

Elem	Al3082	Ca3179	Fe2598	Mg2790	K_7664	Na5895
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1.1668**	**24.554**	**6.8859**	**1.1692**	**9.8629**	**23.644**
Stddev	.0069	.202	.0512	.0075	.0774	.040
%RSD	.58870	.82374	.74413	.64052	.78505	.16840
#1	1.1742	24.494	6.9440	1.1775	9.9516	23.636
#2	1.1657	24.388	6.8668	1.1671	9.8285	23.610
#3	1.1606	24.779	6.8470	1.1630	9.8086	23.688

Int. Std.	Sc3613	Y_3710
Units	Cts/S	Cts/S
Avg	**33360.**	**14554.**
Stddev	165.	80.
%RSD	.49572	.55194
#1	33278.	14483.
#2	33251.	14538.
#3	33550.	14641.

Sample Name: ICV1 Acquired: 06/30/2015 15:12:49 Type: QC
Method: ICP08 ISM01.3 2015(v11) Mode: CONC Corr. Factor: 1.000000
User: Neil.Edwards SDG#: MF9K15 CASE#: 45299 Prep:
Comment: Al,Ca,Fe,Mg,Mn,K,Na

Elem	Al3082	Sb2068	As1890	Ba4554	Be3131	Cd2144	Ca3179	Cr2055
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**2561.5**	**954.72**	**970.26**	**511.35**	**496.85**	**514.18**	**10669.**	**514.75**
Stddev	32.6	6.29	6.11	1.15	.63	1.72	18.	1.97
%RSD	1.2727	.65933	.62932	.22519	.12607	.33486	.16488	.38285
#1	2576.6	961.98	975.62	510.30	496.44	515.63	10666.	515.73
#2	2583.8	951.53	963.61	511.17	496.54	512.28	10653.	512.48
#3	2524.1	950.66	971.53	512.58	497.57	514.64	10687.	516.04
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Co2286	Cu3273	Fe2598	Pb2203	Mg2790	Mn2576	Mo2020	Ni2316
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**503.82**	**496.37**	**5329.9**	**1002.4**	**6153.4**	**509.00**	**-.00530**	**505.55**
Stddev	1.43	1.55	16.5	5.0	27.6	1.31	.23868	2.87
%RSD	.28343	.31266	.30881	.50248	.44811	.25766	4499.4	.56805
#1	504.68	495.75	5348.9	1007.2	6172.1	509.10	.05592	507.07
#2	502.18	498.13	5319.9	997.18	6121.8	507.65	.19680	502.24
#3	504.61	495.22	5321.0	1002.7	6166.4	510.27	-.26863	507.34
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value								
Range								

Elem	K_7664	Se1960	Ag3280	Na5895	Tl1908	Ti3349	V_2924	Zn2062
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**9894.0**	**938.67**	**475.96**	**10607.**	**1067.7**	**4.4388**	**506.64**	**1036.1**
Stddev	26.2	5.95	1.66	23.	5.6	.8343	3.69	1.8
%RSD	.26448	.63407	.34774	.21616	.52605	18.794	.72823	.16959
#1	9873.5	945.51	474.97	10619.	1069.8	4.8903	507.38	1037.6
#2	9885.0	935.80	477.87	10581.	1061.3	4.9500	509.90	1034.2
#3	9923.5	934.70	475.03	10622.	1072.0	3.4761	502.64	1036.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass
Value								
Range								

Sample Name: ICV1 Acquired: 06/30/2015 15:12:49 Type: QC
Method: ICP08 ISM01.3 2015(v11) Mode: CONC Corr. Factor: 1.000000
User: Neil.Edwards SDG#: MF9K15 CASE#: 45299 Prep:
Comment: Al,Ca,Fe,Mg,Mn,K,Na

Int. Std.	Sc2273	Sc3613	Sc3613-2	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3480.3**	**35789.**	**503040.**	**4733.0**	**15634.**	**230450.**
Stddev	10.9	328.	2175.	12.3	160.	648.
%RSD	.31183	.91516	.43227	.26006	1.0204	.28120
#1	3470.1	35760.	502960.	4719.2	15606.	230640.
#2	3491.7	36130.	500910.	4742.9	15806.	229730.
#3	3479.0	35477.	505260.	4736.9	15491.	230980.

Sample Name: ICB1 Acquired: 06/30/2015 15:15:29 Type: QC
Method: ICP08 ISM01.3 2015(v11) Mode: CONC Corr. Factor: 1.000000
User: Neil.Edwards SDG#: MF9K15 CASE#: 45299 Prep:
Comment: Al,Ca,Fe,Mg,Mn,K,Na

Elem	Al3082	Sb2068	As1890	Ba4554	Be3131	Cd2144	Ca3179	Cr2055
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**18.398**	**-1.8427**	**-1.5381**	**-.11779**	**.02485**	**.10041**	**-6.0668**	**-.11563**
Stddev	55.685	2.2577	.7674	.06710	.08727	.04466	3.9754	.18389
%RSD	302.67	122.52	49.891	56.965	351.21	44.476	65.527	159.04
#1	-44.540	.74738	-.68847	-.17876	-.05126	.14566	-5.6595	-.31133
#2	61.263	-3.3946	-2.1808	-.12870	.00570	.09920	-10.230	.05359
#3	38.471	-2.8808	-1.7450	-.04590	.12010	.05637	-2.3107	-.08914
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Co2286	Cu3273	Fe2598	Pb2203	Mg2790	Mn2576	Mo2020	Ni2316
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**.22753**	**.55831**	**9.6136**	**.26743**	**19.419**	**-.61266**	**-.07860**	**-.67757**
Stddev	.15851	.43841	9.6451	.51428	9.997	.14843	.11410	.30377
%RSD	69.663	78.524	100.33	192.30	51.483	24.227	145.16	44.832
#1	.10169	1.0507	13.816	-.00382	8.2109	-.65283	-.20735	-.44033
#2	.17536	.41391	-1.4197	-.05444	22.627	-.73686	-.03845	-1.0199
#3	.40555	.21032	16.445	.86054	27.418	-.44828	.01000	-.57244
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	K_7664	Se1960	Ag3280	Na5895	Tl1908	Ti3349	V_2924	Zn2062
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**-8.9020**	**-1.7761**	**-.11456**	**10.658**	**1.0295**	**.36006**	**-.01135**	**-.52718**
Stddev	72.116	.9653	.23596	8.767	.4704	1.0823	.64394	.39538
%RSD	810.12	54.347	205.98	82.253	45.688	300.59	5674.6	74.999
#1	-74.449	-2.8844	.14975	16.744	1.2405	1.3107	-.68459	-.17625
#2	-20.609	-1.3246	-.30402	.60981	1.3575	-.81779	.05193	-.44975
#3	68.352	-1.1194	-.18940	14.621	.49061	.58727	.59861	-.95556
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: ICB1 Acquired: 06/30/2015 15:15:29 Type: QC
Method: ICP08 ISM01.3 2015(v11) Mode: CONC Corr. Factor: 1.000000
User: Neil.Edwards SDG#: MF9K15 CASE#: 45299 Prep:
Comment: Al,Ca,Fe,Mg,Mn,K,Na

Int. Std.	Sc2273	Sc3613	Sc3613-2	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3715.2**	**34957.**	**504770.**	**4753.3**	**15333.**	**231120.**
Stddev	11.9	161.	2441.	8.2	70.	94.
%RSD	.32097	.46017	.48354	.17300	.45927	.04053
#1	3703.4	34825.	504030.	4748.6	15268.	231030.
#2	3714.9	35136.	502780.	4762.8	15408.	231220.
#3	3727.2	34911.	507490.	4748.5	15323.	231100.

Sample Name: ICSA1 Acquired: 06/30/2015 15:18:27 Type: QC
Method: ICP08 ISM01.3 2015(v11) Mode: CONC Corr. Factor: 1.000000
User: Neil.Edwards SDG#: MF9K15 CASE#: 45299 Prep:
Comment: Al,Ca,Fe,Mg,Mn,K,Na

Elem	Al3082	Sb2068	As1890	Ba4554	Be3131	Cd2144	Ca3179
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**249020.**	**9.5325**	**6.4363**	**5.9033**	**-.17491**	**.01934**	**255600.**
Stddev	933.	.7424	1.9363	.1106	.13819	.09607	433.
%RSD	.37464	7.7879	30.084	1.8740	79.006	496.66	.16952
#1	249170.	10.322	7.0853	5.9701	-.16811	.05476	255290.
#2	249870.	8.8487	7.9648	5.7756	-.04025	.09267	256100.
#3	248020.	9.4267	4.2589	5.9641	-.31638	-.08941	255430.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cr2055	Co2286	Cu3273	Fe2598	Pb2203	Mg2790	Mn2576
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**58.538**	**-1.6114**	**2.0500**	**102160.**	**4.2502**	**259270.**	**16.111**
Stddev	.274	.1907	.9212	129.	1.6262	595.	.491
%RSD	.46721	11.835	44.935	.12586	38.261	.22955	3.0505
#1	58.252	-1.7648	1.1455	102250.	6.1228	258960.	16.494
#2	58.797	-1.3979	2.0175	102230.	3.4348	259960.	15.557
#3	58.564	-1.6715	2.9871	102020.	3.1931	258900.	16.281
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mo2020	Ni2316	K_7664	Se1960	Ag3280	Na5895	Tl1908
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**-.00323**	**-5.0915**	**30.093**	**-14.730**	**-.11533**	**65.404**	**-2.0776**
Stddev	.35291	.3573	38.792	4.224	.15688	8.305	5.2829
%RSD	10931.	7.0183	128.91	28.675	136.03	12.698	254.29
#1	-.15742	-5.0528	48.135	-17.215	-.27163	58.838	3.0590
#2	.40054	-5.4666	56.578	-17.122	.04212	62.633	-7.4956
#3	-.25281	-4.7551	-14.434	-9.8529	-.11648	74.740	-1.7961
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: ICSA1 Acquired: 06/30/2015 15:18:27 Type: QC
Method: ICP08 ISM01.3 2015(v11) Mode: CONC Corr. Factor: 1.000000
User: Neil.Edwards SDG#: MF9K15 CASE#: 45299 Prep:
Comment: Al,Ca,Fe,Mg,Mn,K,Na

Elem	Ti3349	V_2924	Zn2062
Units	ug/L	ug/L	ug/L
Avg	**1.4404**	**-1.3073**	**2.4898**
Stddev	.2876	.8946	.2042
%RSD	19.969	68.436	8.2007
#1	1.7725	-.63583	2.6840
#2	1.2788	-2.3229	2.2769
#3	1.2699	-.96308	2.5085
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	Sc2273	Sc3613	Sc3613-2	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2822.8**	**34847.**	**450260.**	**4278.0**	**14985.**	**202920.**
Stddev	13.3	63.	4754.	8.4	29.	524.
%RSD	.47186	.18196	1.0558	.19635	.19488	.25802
#1	2819.1	34787.	454350.	4275.3	14952.	202540.
#2	2811.8	34841.	451380.	4271.4	15006.	202690.
#3	2837.6	34913.	445040.	4287.5	14997.	203510.

Sample Name: ICSAB1 Acquired: 06/30/2015 15:21:21 Type: QC
Method: ICP08 ISM01.3 2015(v11) Mode: CONC Corr. Factor: 1.000000
User: Neil.Edwards SDG#: MF9K15 CASE#: 45299 Prep:
Comment: Al,Ca,Fe,Mg,Mn,K,Na

Elem	Al3082	Sb2068	As1890	Ba4554	Be3131	Cd2144	Ca3179
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**253420.**	**595.37**	**105.85**	**525.13**	**518.95**	**1030.3**	**257390.**
Stddev	1340.	4.52	2.10	2.65	1.46	2.6	1090.
%RSD	.52873	.75981	1.9812	.50461	.28207	.25098	.42333
#1	254510.	598.74	107.34	527.41	518.54	1027.3	257270.
#2	253830.	590.23	103.45	525.76	520.58	1031.4	258540.
#3	251930.	597.14	106.76	522.22	517.74	1032.2	256370.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cr2055	Co2286	Cu3273	Fe2598	Pb2203	Mg2790	Mn2576
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**576.85**	**534.60**	**530.69**	**103230.**	**57.672**	**261850.**	**523.66**
Stddev	.90	.67	2.02	234.	4.804	918.	3.41
%RSD	.15580	.12577	.38095	.22711	8.3296	.35056	.65149
#1	575.89	534.22	530.02	103220.	62.165	262430.	526.10
#2	577.67	534.20	532.96	103470.	58.243	262320.	525.11
#3	576.97	535.37	529.09	103010.	52.608	260790.	519.76
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mo2020	Ni2316	K_7664	Se1960	Ag3280	Na5895	Tl1908
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**.02929**	**1074.1**	**11.635**	**40.831**	**208.29**	**75.323**	**97.156**
Stddev	.66640	2.8	47.960	7.105	.50	14.393	1.220
%RSD	2275.2	.25604	412.20	17.401	.24141	19.108	1.2561
#1	-.06996	1072.1	-16.641	42.702	207.74	87.988	95.789
#2	.73975	1072.9	67.011	32.978	208.72	59.672	97.544
#3	-.58192	1077.2	-15.464	46.813	208.40	78.310	98.135
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: ICSAB1 Acquired: 06/30/2015 15:21:21 Type: QC
Method: ICP08 ISM01.3 2015(v11) Mode: CONC Corr. Factor: 1.000000
User: Neil.Edwards SDG#: MF9K15 CASE#: 45299 Prep:
Comment: Al,Ca,Fe,Mg,Mn,K,Na

Elem	Ti3349	V_2924	Zn2062
Units	ug/L	ug/L	ug/L
Avg	**3.1716**	**508.78**	**1029.5**
Stddev	.4428	1.96	5.5
%RSD	13.961	.38565	.53681
#1	2.8188	506.55	1023.4
#2	3.0275	510.24	1030.7
#3	3.6685	509.55	1034.2
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	Sc2273	Sc3613	Sc3613-2	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2813.4**	**34492.**	**451040.**	**4271.3**	**14947.**	**202060.**
Stddev	4.1	163.	799.	1.8	47.	436.
%RSD	.14719	.47328	.17707	.04116	.31401	.21583
#1	2814.3	34356.	451950.	4270.9	14948.	201870.
#2	2817.0	34447.	450480.	4269.7	14900.	201750.
#3	2808.9	34673.	450680.	4273.2	14994.	202560.

Sample Name: CCV1 Acquired: 06/30/2015 15:24:03 Type: QC
Method: ICP08 ISM01.3 2015(v11) Mode: CONC Corr. Factor: 1.000000
User: Neil.Edwards SDG#: MF9K15 CASE#: 45299 Prep:
Comment: Al,Ca,Fe,Mg,Mn,K,Na

Elem	Al3082	Sb2068	As1890	Ba4554	Be3131	Cd2144	Ca3179
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**245510.**	**24538.**	**10172.**	**24612.**	**9885.8**	**9804.0**	**251400.**
Stddev	2115.	116.	39.	297.	80.0	3.5	1107.
%RSD	.86149	.47382	.38130	1.2084	.80959	.03588	.44046
#1	247320.	24613.	10198.	24942.	9949.1	9806.0	252520.
#2	246030.	24596.	10192.	24533.	9912.6	9806.0	251380.
#3	243180.	24404.	10128.	24363.	9795.8	9799.9	250310.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Cr2055	Co2286	Cu3273	Fe2598	Pb2203	Mg2790	Mn2576
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**24501.**	**25904.**	**24418.**	**252510.**	**24948.**	**248000.**	**23901.**
Stddev	71.	95.	100.	1260.	126.	1744.	212.
%RSD	.29130	.36737	.40797	.49893	.50631	.70305	.88509
#1	24541.	25968.	24524.	253750.	25006.	249670.	24069.
#2	24543.	25950.	24326.	252530.	25034.	248140.	23970.
#3	24419.	25795.	24403.	251240.	24803.	246190.	23663.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Mo2020	Ni2316	K_7664	Se1960	Ag3280	Na5895	Tl1908
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**9731.9**	**25967.**	**249000.**	**9893.8**	**1011.1**	**254930.**	**9477.1**
Stddev	22.7	120.	418.	34.2	6.6	3872.	43.5
%RSD	.23367	.46254	.16805	.34606	.65450	1.5188	.45923
#1	9746.1	26032.	249290.	9874.8	1004.4	258360.	9504.8
#2	9744.0	26041.	249190.	9933.3	1011.2	250730.	9499.6
#3	9705.7	25829.	248520.	9873.2	1017.6	255700.	9427.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Sample Name: CCV1 Acquired: 06/30/2015 15:24:03 Type: QC
Method: ICP08 ISM01.3 2015(v11) Mode: CONC Corr. Factor: 1.000000
User: Neil.Edwards SDG#: MF9K15 CASE#: 45299 Prep:
Comment: Al,Ca,Fe,Mg,Mn,K,Na

Elem	Ti3349	V_2924	Zn2062
Units	ug/L	ug/L	ug/L
Avg	**9687.4**	**24714.**	**24456.**
Stddev	89.3	118.	19.
%RSD	.92212	.47809	.07606
#1	9761.5	24584.	24453.
#2	9712.6	24742.	24440.
#3	9588.2	24816.	24476.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value			
Range			

Int. Std.	Sc2273	Sc3613	Sc3613-2	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2688.3**	**34300.**	**433160.**	**4105.4**	**14775.**	**196350.**
Stddev	10.3	221.	1835.	7.5	66.	684.
%RSD	.38392	.64345	.42355	.18285	.44481	.34816
#1	2680.9	34048.	435190.	4099.8	14720.	196930.
#2	2683.8	34394.	432670.	4102.6	14848.	196530.
#3	2700.1	34459.	431620.	4114.0	14757.	195600.

Sample Name: CCB1 Acquired: 06/30/2015 15:27:01 Type: QC
Method: ICP08 ISM01.3 2015(v11) Mode: CONC Corr. Factor: 1.000000
User: Neil.Edwards SDG#: MF9K15 CASE#: 45299 Prep:
Comment: Al,Ca,Fe,Mg,Mn,K,Na

Elem	Al3082	Sb2068	As1890	Ba4554	Be3131	Cd2144	Ca3179	Cr2055
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**31.012**	**-2.7457**	**1.2947**	**.49227**	**.21394**	**.07726**	**3.8412**	**.16202**
Stddev	9.369	.7521	.4397	.32610	.15715	.11581	3.1088	.29495
%RSD	30.210	27.393	33.960	66.244	73.455	149.90	80.932	182.04
#1	33.522	-2.3833	.81377	.86149	.39198	.20137	6.8467	.28643
#2	38.871	-3.6105	1.6761	.24365	.09457	-.02792	.63855	-.17475
#3	20.645	-2.2434	1.3943	.37166	.15526	.05833	4.0384	.37439
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Co2286	Cu3273	Fe2598	Pb2203	Mg2790	Mn2576	Mo2020	Ni2316
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**.32761**	**.64819**	**26.162**	**1.6023**	**32.932**	**.57790**	**.62172**	**-.38755**
Stddev	.14530	.08489	10.336	2.7135	38.202	.27184	.20031	.26272
%RSD	44.351	13.097	39.510	169.35	116.00	47.040	32.219	67.788
#1	.31967	.68996	25.291	-1.1546	63.918	.89137	.85026	-.35556
#2	.47672	.55050	36.906	1.6913	44.628	.43548	.53834	-.14230
#3	.18644	.70410	16.288	4.2703	-9.7502	.40687	.47657	-.66480
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	K_7664	Se1960	Ag3280	Na5895	Tl1908	Ti3349	V_2924	Zn2062
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**25.317**	**-1.0854**	**.17076**	**23.456**	**1.9098**	**1.5486**	**.24799**	**-.49282**
Stddev	20.724	1.4322	.34134	25.657	.2163	.9947	.21168	.24640
%RSD	81.857	131.95	199.89	109.38	11.324	64.230	85.359	49.998
#1	19.328	-.58221	.55558	46.801	2.0815	2.4664	.14554	-.21164
#2	48.376	.02733	-.09548	27.581	1.6669	1.6877	.10703	-.59578
#3	8.2475	-2.7012	.05219	-4.0139	1.9809	.49170	.49141	-.67105
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: CCB1 Acquired: 06/30/2015 15:27:01 Type: QC
Method: ICP08 ISM01.3 2015(v11) Mode: CONC Corr. Factor: 1.000000
User: Neil.Edwards SDG#: MF9K15 CASE#: 45299 Prep:
Comment: Al,Ca,Fe,Mg,Mn,K,Na

Int. Std.	Sc2273	Sc3613	Sc3613-2	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3726.0**	**34996.**	**494710.**	**4749.4**	**15503.**	**232110.**
Stddev	12.4	147.	3353.	20.6	50.	1826.
%RSD	.33266	.41861	.67784	.43408	.32197	.78673
#1	3718.6	34827.	492230.	4735.3	15459.	231240.
#2	3719.2	35079.	493370.	4739.8	15493.	230880.
#3	3740.3	35082.	498530.	4773.0	15557.	234210.

Sample Name: PBS1 Acquired: 06/30/2015 15:29:58 Type: Unk
Method: ICP08 ISM01.3 2015(v11) Mode: CONC Corr. Factor: 1.000000
User: Neil.Edwards SDG#: MF9K15 CASE#: 45299 Prep: 3050B
Comment: Al,Ca,Fe,Mg,Mn,K,Na

Elem	Al3082	Sb2068	As1890	Ba4554	Be3131	Cd2144	Ca3179	Cr2055
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**63.851**	**-1.4568**	**-1.6828**	**-.17098**	**-.02161**	**.07730**	**51.729**	**.56830**
Stddev	16.684	1.8125	1.1540	.21349	.11916	.04593	2.115	.21455
%RSD	26.129	124.41	68.578	124.86	551.48	59.419	4.0886	37.752
#1	66.221	-2.3567	-3.0146	-.41472	-.10131	.12785	50.397	.78592
#2	46.109	.62953	-.97909	-.01709	.11538	.03811	54.167	.35697
#3	79.223	-2.6433	-1.0546	-.08115	-.07889	.06596	50.622	.56202

Elem	Co2286	Cu3273	Fe2598	Pb2203	Mg2790	Mn2576	Mo2020	Ni2316
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**-.00546**	**.35797**	**12.161**	**1.0103**	**13.187**	**-.18802**	**-.18420**	**-.45552**
Stddev	.25921	.32112	5.270	1.7831	36.973	.57888	.29206	.47838
%RSD	4746.4	89.707	43.332	176.48	280.37	307.88	158.55	105.02
#1	-.26255	.59197	16.053	3.0469	24.932	-.68391	-.21331	-.74623
#2	.25582	-.00813	6.1642	-.27018	-28.231	.44809	-.46061	.09660
#3	-.00965	.49007	14.266	.25437	42.860	-.32825	.12132	-.71694

Elem	K_7664	Se1960	Ag3280	Na5895	Tl1908	Ti3349	V_2924	Zn2062
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**-31.679**	**2.2991**	**.08885**	**25.461**	**.46413**	**-.25013**	**-.53840**	**.40101**
Stddev	40.389	2.5518	.38345	13.472	.39172	.93168	.06013	.40384
%RSD	127.50	110.99	431.55	52.913	84.399	372.48	11.168	100.70
#1	11.960	.66543	.44239	41.004	.17358	-.15481	-.48910	-.02939
#2	-39.251	5.2396	-.31877	18.249	.90961	-1.2258	-.52071	.77162
#3	-67.746	.99229	.14294	17.131	.30919	.63023	-.60538	.46082

Int. Std.	Sc2273	Sc3613	Sc3613-2	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3724.0**	**35879.**	**509070.**	**4764.1**	**15624.**	**231810.**
Stddev	5.1	181.	1328.	3.6	71.	1651.
%RSD	.13655	.50417	.26081	.07649	.45286	.71226
#1	3727.7	35996.	510020.	4762.9	15686.	232520.
#2	3718.2	35671.	509630.	4768.2	15547.	232990.
#3	3726.0	35970.	507550.	4761.2	15639.	229930.

Sample Name: LCS1 Acquired: 06/30/2015 15:32:56 Type: Unk
Method: ICP08 ISM01.3 2015(v11) Mode: CONC Corr. Factor: 1.000000
User: Neil.Edwards SDG#: MF9K15 CASE#: 45299 Prep: 3050B
Comment: Al,Ca,Fe,Mg,Mn,K,Na

Elem	Al3082	Sb2068	As1890	Ba4554	Be3131	Cd2144	Ca3179	Cr2055
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**411.49**	**110.73**	**17.058**	**395.10**	**9.7421**	**10.097**	**10363.**	**20.012**
Stddev	18.77	.93	.545	.32	.1832	.055	16.	.288
%RSD	4.5603	.84051	3.1948	.07989	1.8801	.54007	.15043	1.4409
#1	409.15	110.01	16.471	395.30	9.9416	10.159	10353.	19.863
#2	394.01	110.40	17.547	394.74	9.7032	10.059	10355.	20.344
#3	431.32	111.78	17.156	395.28	9.5815	10.072	10381.	19.828

Elem	Co2286	Cu3273	Fe2598	Pb2203	Mg2790	Mn2576	Mo2020	Ni2316
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**96.004**	**49.721**	**217.20**	**19.768**	**9901.2**	**29.570**	**-.41057**	**76.066**
Stddev	.989	.871	4.37	1.510	51.6	.465	.08111	.639
%RSD	1.0298	1.7512	2.0111	7.6402	.52156	1.5735	19.756	.83991
#1	96.446	50.272	222.24	19.412	9921.8	29.984	-.36990	76.564
#2	96.693	50.173	214.78	21.425	9842.5	29.660	-.50397	76.290
#3	94.871	48.717	214.58	18.468	9939.4	29.067	-.35784	75.346

Elem	K_7664	Se1960	Ag3280	Na5895	Tl1908	Ti3349	V_2924	Zn2062
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**9629.5**	**66.519**	**18.927**	**10332.**	**49.718**	**.20035**	**97.050**	**121.23**
Stddev	15.5	2.448	.356	1.	.360	.85660	.669	.26
%RSD	.16112	3.6800	1.8807	.00852	.72351	427.55	.68945	.21737
#1	9640.1	67.883	19.332	10332.	50.068	-.27432	97.819	121.03
#2	9611.7	67.982	18.787	10332.	49.737	-.31383	96.602	121.53
#3	9636.7	63.693	18.662	10333.	49.350	1.1892	96.729	121.13

Int. Std.	Sc2273	Sc3613	Sc3613-2	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3559.0**	**35249.**	**492580.**	**4694.4**	**15388.**	**227190.**
Stddev	9.1	277.	2219.	12.4	96.	1176.
%RSD	.25520	.78628	.45042	.26512	.62123	.51741
#1	3559.3	35187.	494260.	4696.9	15389.	225890.
#2	3549.8	35552.	490070.	4680.9	15484.	227480.
#3	3568.0	35009.	493410.	4705.4	15292.	228190.

Sample Name: MF9K15 Acquired: 06/30/2015 15:35:50 Type: Unk
Method: ICP08 ISM01.3 2015(v11) Mode: CONC Corr. Factor: 1.000000
User: Neil.Edwards SDG#: MF9K15 CASE#: 45299 Prep: 3050B
Comment: Al,Ca,Fe,Mg,Mn,K,Na

Elem	Al3082	Sb2068	As1890	Ba4554	Be3131	Cd2144	Ca3179	Cr2055
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**35762.**	**1.3503**	**24.175**	**564.34**	**2.2739**	**4.0969**	**19826.**	**67.193**
Stddev	68.	1.1490	.831	1.52	.2661	.0478	43.	.578
%RSD	.18930	85.094	3.4381	.26947	11.701	1.1673	.21493	.86037
#1	35737.	2.6499	24.342	562.97	1.9880	4.1468	19854.	67.028
#2	35839.	.46927	23.273	565.98	2.5142	4.0924	19847.	67.835
#3	35711.	.93170	24.910	564.06	2.3195	4.0515	19777.	66.715

Elem	Co2286	Cu3273	Fe2598	Pb2203	Mg2790	Mn2576	Mo2020	Ni2316
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**34.224**	**344.54**	**65404.**	**397.82**	**5713.8**	**2508.4**	**1.7208**	**42.014**
Stddev	.169	5.03	181.	2.16	38.5	7.2	.2118	.185
%RSD	.49336	1.4589	.27694	.54192	.67300	.28842	12.310	.44128
#1	34.051	339.69	65280.	397.08	5706.0	2508.5	1.7268	41.974
#2	34.389	344.20	65612.	400.25	5755.6	2515.6	1.9295	42.216
#3	34.233	349.73	65321.	396.13	5679.9	2501.1	1.5060	41.852

Elem	K_7664	Se1960	Ag3280	Na5895	Tl1908	Ti3349	V_2924	Zn2062
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**6849.2**	**1.1350**	**-.01351**	**262.55**	**-5.0629**	**486.09**	**90.089**	**1218.9**
Stddev	35.0	3.1085	.06623	4.31	2.6610	.44	2.029	6.0
%RSD	.51120	273.87	490.25	1.6431	52.558	.09092	2.2524	.49545
#1	6820.3	4.5576	-.00202	263.95	-4.0920	486.22	87.921	1219.3
#2	6839.1	-1.5128	-.08473	265.98	-8.0730	486.46	90.402	1224.7
#3	6888.1	.36025	.04623	257.71	-3.0237	485.60	91.943	1212.7

Int. Std.	Sc2273	Sc3613	Sc3613-2	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3486.9**	**35940.**	**492450.**	**4748.1**	**15773.**	**230100.**
Stddev	15.2	130.	7435.	15.3	61.	1929.
%RSD	.43450	.36228	1.5097	.32193	.38921	.83829
#1	3480.3	35858.	500740.	4738.8	15724.	232180.
#2	3476.2	36090.	490260.	4739.7	15842.	229750.
#3	3504.2	35872.	486360.	4765.7	15753.	228370.

Sample Name: MF9K16 Acquired: 06/30/2015 15:38:40 Type: Unk
Method: ICP08 ISM01.3 2015(v11) Mode: CONC Corr. Factor: 1.000000
User: Neil.Edwards SDG#: MF9K15 CASE#: 45299 Prep: 3050B
Comment: Al,Ca,Fe,Mg,Mn,K,Na

Elem	Al3082	Sb2068	As1890	Ba4554	Be3131	Cd2144	Ca3179	Cr2055
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**41702.**	**1.3466**	**25.091**	**640.61**	**2.4095**	**5.6270**	**20386.**	**73.840**
Stddev	234.	.4986	2.432	1.31	.0628	.1962	129.	.440
%RSD	.56137	37.024	9.6931	.20397	2.6071	3.4860	.63325	.59555
#1	41637.	.82422	27.862	641.03	2.3466	5.8242	20326.	73.509
#2	41961.	1.8174	24.103	641.66	2.4723	5.4319	20534.	74.339
#3	41507.	1.3983	23.309	639.15	2.4097	5.6248	20298.	73.672

Elem	Co2286	Cu3273	Fe2598	Pb2203	Mg2790	Mn2576	Mo2020	Ni2316
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**24.900**	**246.74**	**66355.**	**539.41**	**7046.1**	**1865.3**	**2.1442**	**42.452**
Stddev	.352	2.41	297.	1.84	20.2	8.0	.0643	.292
%RSD	1.4150	.97782	.44776	.34157	.28702	.42943	2.9979	.68835
#1	24.861	243.96	66185.	541.51	7038.6	1862.4	2.1737	42.772
#2	24.570	248.22	66698.	538.08	7030.7	1874.4	2.1884	42.382
#3	25.271	248.05	66181.	538.64	7069.0	1859.1	2.0705	42.201

Elem	K_7664	Se1960	Ag3280	Na5895	Tl1908	Ti3349	V_2924	Zn2062
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**6692.8**	**-3.6753**	**-.54263**	**188.42**	**-3.2463**	**592.17**	**99.174**	**1476.5**
Stddev	18.2	2.6158	.44788	4.10	.7058	2.29	.977	.9
%RSD	.27156	71.173	82.539	2.1746	21.743	.38753	.98469	.06325
#1	6712.9	-6.3066	-.66158	184.09	-2.4462	592.73	100.06	1475.6
#2	6677.6	-3.6443	-.04728	188.92	-3.5118	594.13	99.332	1477.4
#3	6687.9	-1.0751	-.91902	192.24	-3.7808	589.65	98.128	1476.5

Int. Std.	Sc2273	Sc3613	Sc3613-2	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3454.8**	**35773.**	**489870.**	**4740.8**	**15897.**	**225680.**
Stddev	2.8	93.	3092.	3.7	36.	775.
%RSD	.07974	.26027	.63122	.07781	.22594	.34330
#1	3451.9	35872.	486580.	4736.9	15929.	226220.
#2	3457.4	35762.	490320.	4741.1	15858.	226030.
#3	3454.9	35687.	492710.	4744.3	15904.	224790.

Sample Name: MF9K17 Acquired: 06/30/2015 15:41:30 Type: Unk
Method: ICP08 ISM01.3 2015(v11) Mode: CONC Corr. Factor: 1.000000
User: Neil.Edwards SDG#: MF9K15 CASE#: 45299 Prep: 3050B
Comment: Al,Ca,Fe,Mg,Mn,K,Na

Elem	Al3082	Sb2068	As1890	Ba4554	Be3131	Cd2144	Ca3179	Cr2055
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**34381.**	**2.7552**	**43.492**	**467.15**	**2.0869**	**3.0853**	**80169.**	**64.969**
Stddev	88.	.5260	1.003	1.30	.1577	.0659	273.	.086
%RSD	.25535	19.092	2.3066	.27916	7.5571	2.1342	.33993	.13296
#1	34389.	2.6447	44.229	466.38	2.1179	3.1480	80362.	64.975
#2	34463.	3.3277	43.897	468.65	2.2269	3.0167	80287.	65.053
#3	34289.	2.2933	42.349	466.41	1.9160	3.0912	79857.	64.880

Elem	Co2286	Cu3273	Fe2598	Pb2203	Mg2790	Mn2576	Mo2020	Ni2316
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**31.291**	**645.49**	**79721.**	**312.60**	**37194.**	**3538.1**	**2.0373**	**38.091**
Stddev	.430	4.03	155.	2.51	133.	8.5	.1732	.909
%RSD	1.3735	.62464	.19495	.80276	.35651	.24042	8.5029	2.3853
#1	31.780	641.48	79836.	310.42	37345.	3541.5	1.9001	38.826
#2	30.971	649.55	79784.	312.04	37138.	3544.4	1.9798	37.075
#3	31.123	645.45	79544.	315.35	37098.	3528.4	2.2320	38.372

Elem	K_7664	Se1960	Ag3280	Na5895	Tl1908	Ti3349	V_2924	Zn2062
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**7094.9**	**-5.7602**	**-.32145**	**239.04**	**-4.1016**	**432.78**	**99.558**	**907.25**
Stddev	34.7	3.1514	.45209	3.47	1.1856	1.65	1.216	2.54
%RSD	.48936	54.710	140.64	1.4497	28.905	.38200	1.2209	.27992
#1	7081.9	-6.7599	.14240	237.41	-3.5563	431.74	98.313	909.66
#2	7134.3	-2.2302	-.76078	243.02	-3.2869	434.69	100.74	907.49
#3	7068.6	-8.2905	-.34597	236.69	-5.4618	431.92	99.620	904.60

Int. Std.	Sc2273	Sc3613	Sc3613-2	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3317.0**	**35792.**	**481120.**	**4650.4**	**15786.**	**222980.**
Stddev	6.5	225.	2093.	13.0	116.	349.
%RSD	.19645	.62838	.43499	.28019	.73294	.15641
#1	3310.4	35552.	481470.	4635.5	15663.	223390.
#2	3317.4	35826.	478870.	4656.4	15801.	222810.
#3	3323.4	35998.	483010.	4659.4	15893.	222760.

Sample Name: MF9K19 Acquired: 06/30/2015 15:44:19 Type: Unk
Method: ICP08 ISM01.3 2015(v11) Mode: CONC Corr. Factor: 1.000000
User: Neil.Edwards SDG#: MF9K15 CASE#: 45299 Prep: 3050B
Comment: Al,Ca,Fe,Mg,Mn,K,Na

Elem	Al3082	Sb2068	As1890	Ba4554	Be3131	Cd2144	Ca3179
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**45247.**	**.29939**	**28.080**	**683.09**	**3.2290**	**1.9126**	**12584.**
Stddev	118.	2.8494	1.465	.56	.1393	.0194	38.
%RSD	.26134	951.74	5.2157	.08193	4.3130	1.0134	.29940
#1	45261.	-.29932	26.620	683.64	3.3256	1.8910	12567.
#2	45357.	3.4005	29.549	682.52	3.0694	1.9284	12628.
#3	45122.	-2.2031	28.071	683.11	3.2921	1.9185	12558.

Elem	Cr2055	Co2286	Cu3273	Fe2598	Pb2203	Mg2790	Mn2576
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**89.786**	**32.736**	**370.33**	**102890.**	**187.28**	**6432.2**	**1882.4**
Stddev	.511	.317	1.38	323.	3.65	24.6	.2
%RSD	.56930	.96738	.37232	.31372	1.9474	.38267	.01279
#1	90.375	32.981	371.62	102880.	191.38	6444.5	1882.5
#2	89.457	32.379	368.88	103210.	186.05	6448.2	1882.6
#3	89.527	32.849	370.50	102570.	184.40	6403.9	1882.1

Elem	Mo2020	Ni2316	K_7664	Se1960	Ag3280	Na5895	Tl1908
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**2.1806**	**47.776**	**10343.**	**-.55451**	**-.65557**	**294.78**	**-5.7167**
Stddev	.1063	.853	60.	2.7047	.40522	13.10	1.5156
%RSD	4.8754	1.7847	.57547	487.76	61.812	4.4445	26.511
#1	2.2882	48.154	10394.	-3.5586	-1.1031	308.96	-7.1161
#2	2.0756	48.375	10356.	1.6870	-.55003	283.13	-4.1069
#3	2.1780	46.800	10277.	.20814	-.31356	292.23	-5.9271

Elem	Ti3349	V_2924	Zn2062
Units	ug/L	ug/L	ug/L
Avg	**560.28**	**131.54**	**750.15**
Stddev	.96	1.85	2.72
%RSD	.17049	1.4065	.36309
#1	559.21	130.49	752.85
#2	560.57	133.68	750.20
#3	561.06	130.45	747.40

Sample Name: MF9K19 Acquired: 06/30/2015 15:44:19 Type: Unk
Method: ICP08 ISM01.3 2015(v11) Mode: CONC Corr. Factor: 1.000000
User: Neil.Edwards SDG#: MF9K15 CASE#: 45299 Prep: 3050B
Comment: Al,Ca,Fe,Mg,Mn,K,Na

Int. Std.	Sc2273	Sc3613	Sc3613-2	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3505.1**	**35830.**	**494660.**	**4797.6**	**15882.**	**230860.**
Stddev	9.4	149.	5541.	20.1	76.	662.
%RSD	.26747	.41463	1.1201	.41826	.47882	.28679
#1	3494.8	35709.	500950.	4774.6	15834.	230450.
#2	3507.2	35786.	490530.	4807.2	15843.	230500.
#3	3513.2	35996.	492490.	4811.1	15970.	231620.

Sample Name: MF9K20 Acquired: 06/30/2015 15:47:08 Type: Unk
Method: ICP08 ISM01.3 2015(v11) Mode: CONC Corr. Factor: 1.000000
User: Neil.Edwards SDG#: MF9K15 CASE#: 45299 Prep: 3050B
Comment: Al,Ca,Fe,Mg,Mn,K,Na

Elem	Al3082	Sb2068	As1890	Ba4554	Be3131	Cd2144	Ca3179	Cr2055
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**40816.**	**2.4714**	**24.760**	**392.31**	**2.0160**	**2.8976**	**12147.**	**76.071**
Stddev	127.	1.9675	1.167	2.48	.1165	.1313	79.	.344
%RSD	.31122	79.612	4.7126	.63285	5.7797	4.5332	.65262	.45227
#1	40959.	4.7183	24.321	394.49	1.9582	3.0026	12209.	76.449
#2	40716.	1.6384	26.082	392.82	1.9397	2.7503	12174.	75.990
#3	40774.	1.0573	23.875	389.61	2.1502	2.9398	12058.	75.775

Elem	Co2286	Cu3273	Fe2598	Pb2203	Mg2790	Mn2576	Mo2020	Ni2316
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**27.838**	**196.85**	**62648.**	**310.75**	**6065.3**	**1932.1**	**1.8336**	**37.664**
Stddev	.236	2.01	379.	2.84	16.1	9.5	.0471	.540
%RSD	.84937	1.0216	.60484	.91298	.26522	.49231	2.5663	1.4341
#1	27.930	194.54	62949.	312.16	6070.8	1938.5	1.8568	38.044
#2	27.570	197.84	62773.	312.61	6077.8	1936.5	1.7795	37.046
#3	28.015	198.18	62222.	307.49	6047.1	1921.1	1.8646	37.902

Elem	K_7664	Se1960	Ag3280	Na5895	Tl1908	Ti3349	V_2924	Zn2062
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**6527.0**	**-.24758**	**-.60312**	**175.64**	**-3.6272**	**642.21**	**96.963**	**799.10**
Stddev	14.1	4.5739	.25120	12.89	2.3343	4.90	1.757	3.66
%RSD	.21526	1847.5	41.649	7.3379	64.355	.76350	1.8126	.45800
#1	6532.8	-4.6599	-.31796	160.76	-5.7016	646.22	95.034	801.95
#2	6537.2	4.4724	-.69976	183.08	-4.0805	643.67	98.474	794.97
#3	6511.0	-.55527	-.79165	183.08	-1.0995	636.74	97.380	800.39

Int. Std.	Sc2273	Sc3613	Sc3613-2	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3498.3**	**36045.**	**497780.**	**4770.7**	**15840.**	**227170.**
Stddev	9.3	407.	7020.	11.7	171.	1298.
%RSD	.26560	1.1289	1.4104	.24501	1.0792	.57147
#1	3489.3	35672.	505880.	4757.6	15689.	228540.
#2	3497.8	35985.	494040.	4774.6	15806.	225960.
#3	3507.9	36479.	493430.	4780.0	16026.	227030.

Sample Name: MF9K21 Acquired: 06/30/2015 15:49:57 Type: Unk
Method: ICP08 ISM01.3 2015(v11) Mode: CONC Corr. Factor: 1.000000
User: Neil.Edwards SDG#: MF9K15 CASE#: 45299 Prep: 3050B
Comment: Al,Ca,Fe,Mg,Mn,K,Na

Elem	Al3082	Sb2068	As1890	Ba4554	Be3131	Cd2144	Ca3179	Cr2055
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**21058.**	**-.36407**	**17.390**	**277.92**	**1.4472**	**1.7955**	**5870.7**	**37.874**
Stddev	132.	2.1976	1.001	.33	.1669	.1101	25.4	.153
%RSD	.62752	603.63	5.7540	.11707	11.535	6.1299	.43257	.40321
#1	20928.	.16348	16.342	277.55	1.4294	1.9225	5841.4	37.819
#2	21193.	-2.7775	18.335	278.08	1.6222	1.7320	5885.8	37.757
#3	21054.	1.5218	17.493	278.14	1.2898	1.7318	5884.9	38.047

Elem	Co2286	Cu3273	Fe2598	Pb2203	Mg2790	Mn2576	Mo2020	Ni2316
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**22.279**	**241.78**	**48140.**	**127.03**	**2551.8**	**1923.2**	**.79486**	**16.130**
Stddev	.517	1.36	106.	1.44	19.7	8.4	.09972	.365
%RSD	2.3184	.56141	.22087	1.1371	.77183	.43744	12.546	2.2630
#1	22.875	243.35	48025.	128.67	2531.9	1913.5	.90947	16.161
#2	21.955	241.04	48235.	126.46	2571.3	1927.0	.74716	15.750
#3	22.009	240.95	48158.	125.96	2552.3	1929.0	.72794	16.478

Elem	K_7664	Se1960	Ag3280	Na5895	Tl1908	Ti3349	V_2924	Zn2062
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**4265.5**	**2.4189**	**-.64223**	**94.698**	**-2.6728**	**384.42**	**57.958**	**356.58**
Stddev	23.2	2.4227	.35550	6.634	.2751	.98	.661	1.40
%RSD	.54479	100.16	55.354	7.0056	10.293	.25486	1.1398	.39360
#1	4268.7	-.07848	-.71383	89.375	-2.8027	383.45	57.195	357.66
#2	4287.0	4.7593	-.25638	92.588	-2.3568	385.41	58.332	354.99
#3	4240.8	2.5758	-.95648	102.13	-2.8589	384.42	58.347	357.09

Int. Std.	Sc2273	Sc3613	Sc3613-2	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3573.9**	**35807.**	**503090.**	**4772.2**	**15691.**	**231140.**
Stddev	12.6	418.	4849.	16.0	188.	1651.
%RSD	.35283	1.1669	.96390	.33563	1.1961	.71435
#1	3560.4	36273.	508540.	4754.5	15898.	229240.
#2	3575.7	35465.	501450.	4776.2	15531.	232260.
#3	3585.5	35684.	499270.	4785.8	15643.	231910.

Sample Name: MF9K22 Acquired: 06/30/2015 15:52:47 Type: Unk
Method: ICP08 ISM01.3 2015(v11) Mode: CONC Corr. Factor: 1.000000
User: Neil.Edwards SDG#: MF9K15 CASE#: 45299 Prep: 3050B
Comment: Al,Ca,Fe,Mg,Mn,K,Na

Elem	Al3082	Sb2068	As1890	Ba4554	Be3131	Cd2144	Ca3179	Cr2055
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**26994.**	**-.64614**	**22.779**	**475.14**	**1.9460**	**3.3166**	**12920.**	**60.865**
Stddev	47.	.95921	1.713	1.70	.2422	.1002	22.	.230
%RSD	.17390	148.45	7.5179	.35737	12.444	3.0198	.17190	.37815
#1	26967.	-1.5311	21.397	476.81	1.9596	3.2852	12945.	61.052
#2	27048.	.37314	24.695	475.19	2.1811	3.4287	12914.	60.608
#3	26967.	-.78045	22.245	473.41	1.6974	3.2360	12902.	60.934

Elem	Co2286	Cu3273	Fe2598	Pb2203	Mg2790	Mn2576	Mo2020	Ni2316
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**28.865**	**141.94**	**60649.**	**394.41**	**4717.5**	**2470.0**	**1.5227**	**30.678**
Stddev	.231	.45	289.	1.34	22.4	10.0	.3362	.495
%RSD	.80075	.32031	.47704	.33869	.47586	.40346	22.078	1.6145
#1	28.775	141.97	60757.	395.83	4728.3	2479.4	1.1669	31.210
#2	28.693	142.37	60870.	394.25	4732.6	2471.2	1.5661	30.594
#3	29.128	141.47	60322.	393.17	4691.7	2459.5	1.8351	30.230

Elem	K_7664	Se1960	Ag3280	Na5895	Tl1908	Ti3349	V_2924	Zn2062
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**6361.5**	**2.3742**	**-.69726**	**113.56**	**-3.5921**	**475.92**	**71.778**	**1220.5**
Stddev	32.1	2.4967	.16777	16.43	.7988	3.47	.424	4.7
%RSD	.50510	105.16	24.062	14.466	22.238	.72845	.59114	.38401
#1	6381.9	2.6618	-.55213	122.48	-4.5110	479.76	71.395	1225.3
#2	6378.2	-.25386	-.65870	94.603	-3.0631	474.98	72.234	1216.0
#3	6324.5	4.7147	-.88096	123.60	-3.2021	473.02	71.703	1220.2

Int. Std.	Sc2273	Sc3613	Sc3613-2	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3555.7**	**35793.**	**501290.**	**4777.8**	**15682.**	**228890.**
Stddev	9.5	73.	2541.	14.7	30.	718.
%RSD	.26788	.20299	.50691	.30696	.19224	.31363
#1	3553.3	35743.	502920.	4765.0	15657.	229670.
#2	3566.2	35758.	502590.	4793.8	15673.	228720.
#3	3547.6	35876.	498370.	4774.6	15716.	228260.

Sample Name: MF9K23 Acquired: 06/30/2015 15:55:36 Type: Unk
Method: ICP08 ISM01.3 2015(v11) Mode: CONC Corr. Factor: 1.000000
User: Neil.Edwards SDG#: MF9K15 CASE#: 45299 Prep: 3050B
Comment: Al,Ca,Fe,Mg,Mn,K,Na

Elem	Al3082	Sb2068	As1890	Ba4554	Be3131	Cd2144	Ca3179	Cr2055
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**38811.**	**2.1957**	**21.780**	**476.50**	**2.7342**	**1.3924**	**7930.2**	**74.250**
Stddev	66.	2.4948	2.050	1.11	.2538	.1410	26.6	.236
%RSD	.17012	113.62	9.4124	.23343	9.2821	10.124	.33573	.31808
#1	38736.	4.0717	20.331	475.96	2.7889	1.2899	7900.7	73.978
#2	38840.	3.1511	24.125	477.78	2.9562	1.3342	7937.4	74.403
#3	38858.	-.63555	20.883	475.77	2.4575	1.5531	7952.5	74.368

Elem	Co2286	Cu3273	Fe2598	Pb2203	Mg2790	Mn2576	Mo2020	Ni2316
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**26.715**	**113.01**	**77270.**	**155.50**	**4702.2**	**1547.5**	**1.4994**	**39.859**
Stddev	.472	.85	124.	2.59	71.7	4.4	.3652	.343
%RSD	1.7673	.74860	.16111	1.6660	1.5250	.28432	24.357	.86173
#1	27.246	112.55	77128.	157.77	4785.0	1542.4	1.3684	40.199
#2	26.555	112.49	77360.	152.68	4658.6	1549.9	1.9121	39.512
#3	26.344	113.99	77322.	156.06	4663.0	1550.1	1.2178	39.865

Elem	K_7664	Se1960	Ag3280	Na5895	Tl1908	Ti3349	V_2924	Zn2062
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**7350.5**	**-2.5035**	**-1.2674**	**209.47**	**-5.3079**	**554.24**	**101.91**	**493.84**
Stddev	35.7	4.8861	.4190	4.10	2.4976	1.51	.50	1.34
%RSD	.48587	195.17	33.059	1.9596	47.055	.27302	.48849	.27033
#1	7309.5	-6.8270	-1.4756	210.98	-7.3712	553.08	102.30	495.38
#2	7375.1	2.7975	-1.5414	212.61	-2.5312	555.95	101.35	493.13
#3	7366.9	-3.4809	-.78506	204.82	-6.0212	553.68	102.08	493.01

Int. Std.	Sc2273	Sc3613	Sc3613-2	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3491.1**	**35992.**	**503120.**	**4782.3**	**15783.**	**229840.**
Stddev	8.2	244.	1588.	8.6	81.	1253.
%RSD	.23422	.67821	.31561	.18018	.51388	.54497
#1	3499.3	36061.	501340.	4792.3	15815.	230930.
#2	3482.9	36194.	503590.	4777.7	15843.	228470.
#3	3491.0	35721.	504410.	4777.0	15691.	230130.

Sample Name: MF9K25 Acquired: 06/30/2015 15:58:25 Type: Unk
Method: ICP08 ISM01.3 2015(v11) Mode: CONC Corr. Factor: 1.000000
User: Neil.Edwards SDG#: MF9K15 CASE#: 45299 Prep: 3050B
Comment: Al,Ca,Fe,Mg,Mn,K,Na

Elem	Al3082	Sb2068	As1890	Ba4554	Be3131	Cd2144	Ca3179	Cr2055
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**38033.**	**.11297**	**31.844**	**368.28**	**1.8149**	**2.0559**	**40104.**	**60.903**
Stddev	269.	2.3219	2.105	.97	.2220	.0506	173.	.579
%RSD	.70744	2055.3	6.6103	.26428	12.230	2.4620	.43061	.95086
#1	37874.	1.9166	30.846	368.96	1.8921	2.0794	40144.	60.984
#2	38344.	-2.5068	34.262	368.72	1.9879	2.0906	40252.	61.438
#3	37882.	.92911	30.424	367.17	1.5646	1.9978	39914.	60.288

Elem	Co2286	Cu3273	Fe2598	Pb2203	Mg2790	Mn2576	Mo2020	Ni2316
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**26.481**	**120.41**	**71096.**	**219.01**	**19882.**	**2305.6**	**2.6201**	**34.278**
Stddev	.638	1.92	167.	3.84	61.	9.5	.1994	.305
%RSD	2.4100	1.5929	.23461	1.7512	.30753	.41258	7.6111	.88971
#1	27.158	121.68	71055.	218.58	19883.	2312.0	2.4510	34.045
#2	26.396	121.36	71279.	223.04	19943.	2310.1	2.5693	34.165
#3	25.890	118.21	70954.	215.41	19821.	2294.6	2.8400	34.623

Elem	K_7664	Se1960	Ag3280	Na5895	Tl1908	Ti3349	V_2924	Zn2062
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**9029.9**	**-4.3575**	**-.44084**	**206.61**	**-5.1787**	**571.58**	**87.866**	**627.83**
Stddev	24.6	.7730	.50971	11.48	1.3704	3.72	.832	3.92
%RSD	.27188	17.739	115.62	5.5550	26.462	.65137	.94690	.62401
#1	9057.7	-5.2272	-.13020	219.86	-6.4470	572.38	86.913	627.51
#2	9020.8	-4.0962	-.16323	199.77	-3.7250	574.84	88.242	631.89
#3	9011.3	-3.7491	-1.0291	200.19	-5.3642	567.53	88.444	624.07

Int. Std.	Sc2273	Sc3613	Sc3613-2	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3392.6**	**36050.**	**490610.**	**4718.4**	**15867.**	**226430.**
Stddev	10.9	185.	4821.	16.1	68.	866.
%RSD	.32212	.51284	.98261	.34089	.42689	.38233
#1	3400.5	35972.	496150.	4720.0	15859.	225700.
#2	3380.1	35917.	488230.	4701.6	15804.	226210.
#3	3397.2	36261.	487430.	4733.7	15939.	227390.

Sample Name: MF9K26 Acquired: 06/30/2015 16:01:14 Type: Unk
Method: ICP08 ISM01.3 2015(v11) Mode: CONC Corr. Factor: 1.000000
User: Neil.Edwards SDG#: MF9K15 CASE#: 45299 Prep: 3050B
Comment: Al,Ca,Fe,Mg,Mn,K,Na

Elem	Al3082	Sb2068	As1890	Ba4554	Be3131	Cd2144	Ca3179	Cr2055
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**26345.**	**-.66364**	**21.198**	**357.58**	**1.7046**	**1.9645**	**8466.3**	**46.936**
Stddev	76.	3.5351	3.623	1.68	.2582	.0461	34.8	.131
%RSD	.28802	532.68	17.090	.47020	15.145	2.3457	.41095	.27896
#1	26422.	1.9347	20.530	359.50	1.9224	1.9169	8506.0	46.805
#2	26270.	.76361	25.108	356.88	1.4194	1.9677	8441.0	47.067
#3	26342.	-4.6892	17.956	356.36	1.7719	2.0089	8452.0	46.935

Elem	Co2286	Cu3273	Fe2598	Pb2203	Mg2790	Mn2576	Mo2020	Ni2316
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**27.085**	**136.02**	**55667.**	**154.09**	**3577.3**	**2338.4**	**1.4102**	**22.422**
Stddev	.311	2.33	168.	1.85	21.6	7.6	.3583	.418
%RSD	1.1467	1.7162	.30191	1.1976	.60414	.32517	25.404	1.8621
#1	26.914	135.38	55857.	152.26	3586.9	2346.4	1.1110	22.904
#2	26.898	138.60	55536.	154.05	3552.5	2331.3	1.3124	22.182
#3	27.443	134.06	55608.	155.95	3592.5	2337.5	1.8072	22.180

Elem	K_7664	Se1960	Ag3280	Na5895	Tl1908	Ti3349	V_2924	Zn2062
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**6090.5**	**.28361**	**-.72991**	**84.741**	**-3.9494**	**461.71**	**69.604**	**407.77**
Stddev	27.3	.78744	.25578	6.697	.3694	2.63	1.204	1.33
%RSD	.44750	277.65	35.043	7.9029	9.3522	.56978	1.7290	.32728
#1	6065.5	1.0408	-.81460	79.341	-4.3466	464.40	69.470	408.20
#2	6086.3	.34091	-.93262	92.235	-3.6162	461.58	70.868	406.28
#3	6119.6	-.53091	-.44253	82.647	-3.8855	459.14	68.473	408.84

Int. Std.	Sc2273	Sc3613	Sc3613-2	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3514.3**	**35876.**	**501600.**	**4761.7**	**15684.**	**228690.**
Stddev	12.0	198.	3147.	6.2	69.	1582.
%RSD	.34229	.55086	.62745	.13041	.43982	.69165
#1	3501.6	35686.	504370.	4755.1	15625.	230390.
#2	3515.6	36081.	498180.	4767.5	15760.	227270.
#3	3525.6	35861.	502240.	4762.7	15668.	228400.

Sample Name: MF9K26S Acquired: 06/30/2015 16:04:04 Type: RQC
Method: ICP08 ISM01.3 2015(v11) Mode: CONC Corr. Factor: 1.000000
User: Neil.Edwards SDG#: MF9K15 CASE#: 45299 Prep: 3050B
Comment: Mn Only

Elem	Al3082	Sb2068	As1890	Ba4554	Be3131	Cd2144	Ca3179
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**32180.**	F **84.754**	**96.525**	**4477.1**	**103.21**	**103.43**	**8589.8**
Stddev	131.	1.240	3.833	14.5	.29	.64	30.0
%RSD	.40755	1.4625	3.9708	.32278	.27649	.61596	.34892
#1	32161.	86.173	97.748	4470.3	103.16	103.91	8624.1
#2	32060.	84.207	99.597	4467.2	102.95	103.68	8568.8
#3	32320.	83.882	92.230	4493.7	103.52	102.71	8576.4
Check ?	None	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None
Value		200.00					
Range		-25.000%					
	None		75.327	4119.5	101.51	101.47	None
Recovery		85.418	94.159%	102.99%	101.51%	101.47%	
% Recovery		42.709%					

Elem	Cr2055	Co2286	Cu3273	Fe2598	Pb2203	Mg2790	Mn2576
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**453.39**	**1010.8**	**631.67**	**59213.**	**190.52**	**3634.8**	**3430.3**
Stddev	1.65	4.6	8.39	123.	1.26	43.3	6.9
%RSD	.36439	.45311	1.3277	.20836	.66301	1.1915	.20118
#1	453.37	1012.0	625.00	59331.	190.67	3678.7	3427.9
#2	455.05	1014.6	641.08	59085.	189.19	3592.2	3424.9
#3	451.75	1005.7	628.91	59224.	191.71	3633.4	3438.1
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	None	Chk Pass
Value							
Range							
	406.45	983.69	495.65	None	36.436	None	1091.9
Recovery	101.61%	98.369%	99.130%		91.091%		109.19%
% Recovery							

Sample Name: MF9K26S Acquired: 06/30/2015 16:04:04 Type: RQC
Method: ICP08 ISM01.3 2015(v11) Mode: CONC Corr. Factor: 1.000000
User: Neil.Edwards SDG#: MF9K15 CASE#: 45299 Prep: 3050B
Comment: Mn Only

Elem	Mo2020	Ni2316	K_7664	Se1960	Ag3280	Na5895	Tl1908
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**1.1345**	**1002.0**	**6175.3**	**90.516**	**93.504**	**103.23**	**98.850**
Stddev	.4427	4.2	32.4	5.077	.988	7.41	1.647
%RSD	39.017	.42037	.52451	5.6087	1.0569	7.1823	1.6662
#1	1.3193	1002.7	6212.5	86.038	92.395	105.42	100.60
#2	1.4549	1005.9	6153.6	89.478	94.292	109.30	97.335
#3	.62943	997.52	6159.7	96.031	93.825	94.964	98.612
Check ?	None	Chk Pass	None	Chk Pass	Chk Pass	None	Chk Pass
Value							
Range							
	None	979.59	None	90.232	94.234	None	102.80
Recovery		97.959%		90.232%	94.234%		102.80%
% Recovery							

Elem	Ti3349	V_2924	Zn2062
Units	ug/L	ug/L	ug/L
Avg	**484.91**	**1061.4**	**1435.5**
Stddev	.20	6.6	11.4
%RSD	.04033	.61985	.79667
#1	484.94	1054.8	1444.2
#2	485.09	1068.0	1439.8
#3	484.70	1061.3	1422.6
Check ?	None	Chk Pass	Chk Pass
Value			
Range			
	None	991.75	1027.8
Recovery		99.175%	102.78%
% Recovery			

Sample Name: MF9K26S Acquired: 06/30/2015 16:04:04 Type: RQC
Method: ICP08 ISM01.3 2015(v11) Mode: CONC Corr. Factor: 1.000000
User: Neil.Edwards SDG#: MF9K15 CASE#: 45299 Prep: 3050B
Comment: Mn Only

Int. Std.	Sc2273	Sc3613	Sc3613-2	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3536.0**	**35343.**	**489910.**	**4772.6**	**15760.**	**230340.**
Stddev	8.6	59.	1431.	11.3	75.	1505.
%RSD	.24340	.16714	.29213	.23575	.47510	.65354
#1	3529.5	35280.	491450.	4762.7	15673.	231340.
#2	3532.8	35397.	488620.	4770.3	15800.	228610.
#3	3545.8	35352.	489670.	4784.9	15806.	231070.

Sample Name: MF9K26D Acquired: 06/30/2015 16:06:47 Type: Unk
Method: ICP08 ISM01.3 2015(v11) Mode: CONC Corr. Factor: 1.000000
User: Neil.Edwards SDG#: MF9K15 CASE#: 45299 Prep: 3050B
Comment: Al,Ca,Fe,Mg,Mn,K,Na

Elem	Al3082	Sb2068	As1890	Ba4554	Be3131	Cd2144	Ca3179	Cr2055
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**32925.**	**.05944**	**23.713**	**369.72**	**1.8468**	**1.9555**	**8582.8**	**51.939**
Stddev	46.	.79583	2.930	.82	.1488	.1166	28.6	.283
%RSD	.13989	1338.8	12.357	.22059	8.0591	5.9638	.33287	.54521
#1	32888.	-.81155	26.855	370.51	1.7207	2.0180	8611.0	52.045
#2	32976.	.74864	21.054	369.78	2.0110	1.8209	8583.4	51.618
#3	32911.	.24124	23.232	368.88	1.8087	2.0275	8553.9	52.153

Elem	Co2286	Cu3273	Fe2598	Pb2203	Mg2790	Mn2576	Mo2020	Ni2316
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**27.728**	**139.31**	**58562.**	**156.47**	**4138.7**	**2360.9**	**1.2229**	**23.039**
Stddev	.377	.43	135.	1.67	25.6	6.3	.2366	.245
%RSD	1.3583	.31129	.23052	1.0668	.61734	.26772	19.345	1.0638
#1	27.489	139.73	58513.	157.43	4166.8	2367.5	1.1205	23.266
#2	28.163	139.33	58714.	154.54	4116.9	2360.1	1.4935	22.779
#3	27.534	138.86	58458.	157.43	4132.4	2355.0	1.0548	23.073

Elem	K_7664	Se1960	Ag3280	Na5895	Tl1908	Ti3349	V_2924	Zn2062
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**6895.9**	**.91441**	**-1.5033**	**115.89**	**-4.5793**	**540.78**	**76.657**	**422.09**
Stddev	28.1	5.4967	.3069	1.69	1.6814	1.52	.542	.19
%RSD	.40711	601.11	20.416	1.4606	36.718	.28182	.70725	.04543
#1	6910.0	3.7354	-1.2347	113.94	-3.3544	542.10	76.247	422.18
#2	6914.2	-5.4200	-1.8378	117.00	-3.8870	541.14	76.452	421.87
#3	6863.6	4.4278	-1.4374	116.71	-6.4963	539.11	77.272	422.22

Int. Std.	Sc2273	Sc3613	Sc3613-2	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3509.9**	**35902.**	**502870.**	**4763.6**	**15746.**	**228130.**
Stddev	12.1	110.	4194.	15.9	41.	1747.
%RSD	.34415	.30639	.83404	.33371	.26335	.76559
#1	3497.1	35839.	507570.	4747.8	15748.	226670.
#2	3521.0	35837.	501540.	4779.6	15703.	227650.
#3	3511.7	36029.	499500.	4763.4	15786.	230060.

Sample Name: MF9K26L Acquired: 06/30/2015 16:09:37 Type: Unk
Method: ICP08 ISM01.3 2015(v11) Mode: CONC Corr. Factor: 1.000000
User: Neil.Edwards SDG#: MF9K15 CASE#: 45299 Prep: 3050B
Comment: Al,Ca,Fe,Mg,Mn,K,Na

Elem	Al3082	Sb2068	As1890	Ba4554	Be3131	Cd2144	Ca3179	Cr2055
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**5378.3**	**-3.3055**	**3.5936**	**72.098**	**.34365**	**.48532**	**1695.2**	**9.4036**
Stddev	21.6	1.8432	1.0692	.219	.26315	.10231	10.4	.0142
%RSD	.40225	55.760	29.752	.30385	76.575	21.082	.61571	.15098
#1	5358.1	-1.4623	2.4761	71.856	.63111	.51198	1685.3	9.3900
#2	5401.1	-3.3056	3.6979	72.153	.28516	.37231	1706.1	9.4024
#3	5375.8	-5.1487	4.6069	72.284	.11466	.57166	1694.1	9.4183

Elem	Co2286	Cu3273	Fe2598	Pb2203	Mg2790	Mn2576	Mo2020	Ni2316
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**5.6357**	**27.775**	**11255.**	**32.095**	**733.77**	**474.68**	**-.22031**	**3.5212**
Stddev	.2815	.788	42.	3.130	29.00	1.56	.14026	.4315
%RSD	4.9942	2.8364	.37151	9.7526	3.9528	.32812	63.666	12.254
#1	5.8953	27.707	11284.	35.461	733.48	475.33	-.06299	3.3976
#2	5.3366	28.594	11274.	31.551	762.92	475.80	-.26562	3.1650
#3	5.6751	27.023	11207.	29.272	704.92	472.90	-.33232	4.0010

Elem	K_7664	Se1960	Ag3280	Na5895	Tl1908	Ti3349	V_2924	Zn2062
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**1178.3**	**.45226**	**-.16101**	**22.909**	**-1.2690**	**93.908**	**14.011**	**81.574**
Stddev	42.0	3.8391	.26458	17.715	.2819	1.412	.441	.866
%RSD	3.5640	848.88	164.32	77.330	22.217	1.5037	3.1471	1.0613
#1	1181.1	.29591	-.27960	32.780	-1.0064	92.887	14.383	81.845
#2	1218.8	4.3672	.14212	33.490	-1.5669	93.318	14.126	82.272
#3	1135.0	-3.3063	-.34556	2.4571	-1.2336	95.520	13.524	80.605

Int. Std.	Sc2273	Sc3613	Sc3613-2	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3723.2**	**35603.**	**505100.**	**4798.1**	**15645.**	**231920.**
Stddev	2.7	100.	1339.	8.8	40.	1593.
%RSD	.07135	.28215	.26515	.18379	.25594	.68665
#1	3720.3	35702.	503920.	4799.8	15650.	232320.
#2	3725.4	35502.	504840.	4788.6	15603.	230160.
#3	3724.0	35606.	506560.	4806.0	15683.	233270.

Sample Name: MF9K27 Acquired: 06/30/2015 16:12:31 Type: Unk
Method: ICP08 ISM01.3 2015(v11) Mode: CONC Corr. Factor: 1.000000
User: Neil.Edwards SDG#: MF9K15 CASE#: 45299 Prep: 3050B
Comment: Al,Ca,Fe,Mg,Mn,K,Na

Elem	Al3082	Sb2068	As1890	Ba4554	Be3131	Cd2144	Ca3179	Cr2055
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**31413.**	**.12158**	**23.878**	**344.95**	**1.9962**	**1.4963**	**17902.**	**54.954**
Stddev	100.	3.9883	2.788	1.28	.2625	.1361	40.	.265
%RSD	.31820	3280.4	11.675	.37116	13.151	9.0963	.22168	.48285
#1	31511.	3.4156	25.328	344.85	2.2993	1.5099	17939.	55.256
#2	31416.	1.2619	20.664	346.27	1.8485	1.6251	17907.	54.842
#3	31311.	-4.3127	25.642	343.72	1.8408	1.3539	17860.	54.762

Elem	Co2286	Cu3273	Fe2598	Pb2203	Mg2790	Mn2576	Mo2020	Ni2316
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**28.580**	**125.57**	**71156.**	**187.30**	**8643.8**	**2119.8**	**1.6672**	**37.016**
Stddev	.513	1.21	89.	1.49	36.4	8.6	.2085	.130
%RSD	1.7954	.96455	.12497	.79633	.42062	.40756	12.507	.35101
#1	29.048	124.19	71169.	185.96	8677.1	2128.3	1.4339	37.043
#2	28.031	126.10	71237.	188.91	8649.3	2120.1	1.8355	36.875
#3	28.662	126.43	71061.	187.02	8605.0	2111.0	1.7322	37.130

Elem	K_7664	Se1960	Ag3280	Na5895	Tl1908	Ti3349	V_2924	Zn2062
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**7156.1**	**3.0751**	**-.75703**	**155.52**	**-4.8282**	**494.39**	**84.516**	**485.69**
Stddev	23.8	1.6402	.09866	5.59	2.6379	.61	.526	1.78
%RSD	.33256	53.340	13.032	3.5939	54.635	.12274	.62194	.36640
#1	7154.5	1.7866	-.86031	151.73	-5.9875	494.06	84.732	487.22
#2	7133.1	2.5171	-.66376	152.89	-1.8092	495.09	83.917	486.10
#3	7180.6	4.9215	-.74703	161.94	-6.6878	494.03	84.899	483.73

Int. Std.	Sc2273	Sc3613	Sc3613-2	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3487.6**	**36040.**	**496150.**	**4747.0**	**15893.**	**227400.**
Stddev	18.7	320.	768.	20.1	130.	546.
%RSD	.53585	.88855	.15483	.42318	.81965	.24018
#1	3471.0	35875.	496580.	4733.1	15836.	227620.
#2	3484.0	36409.	495270.	4737.8	16043.	226780.
#3	3507.8	35835.	496610.	4770.0	15802.	227810.

Sample Name: MF9K28 Acquired: 06/30/2015 16:15:21 Type: Unk
Method: ICP08 ISM01.3 2015(v11) Mode: CONC Corr. Factor: 1.000000
User: Neil.Edwards SDG#: MF9K15 CASE#: 45299 Prep: 3050B
Comment: Al,Ca,Fe,Mg,Mn,K,Na

Elem	Al3082	Sb2068	As1890	Ba4554	Be3131	Cd2144	Ca3179	Cr2055
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**25853.**	**.07077**	**19.957**	**391.14**	**1.7176**	**2.7701**	**9145.8**	**59.494**
Stddev	89.	.75374	1.284	2.48	.0363	.0325	77.5	.265
%RSD	.34244	1065.1	6.4335	.63363	2.1120	1.1740	.84688	.44482
#1	25881.	-.34492	20.655	393.22	1.7575	2.7868	9232.5	59.743
#2	25924.	.94082	18.475	391.79	1.7089	2.7909	9121.5	59.524
#3	25754.	-.38360	20.741	388.40	1.6865	2.7326	9083.4	59.216

Elem	Co2286	Cu3273	Fe2598	Pb2203	Mg2790	Mn2576	Mo2020	Ni2316
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**27.374**	**128.01**	**52937.**	**342.46**	**3679.6**	**2039.9**	**1.2934**	**29.032**
Stddev	.754	4.16	477.	1.62	52.0	9.2	.0692	.595
%RSD	2.7550	3.2479	.90031	.47445	1.4119	.45270	5.3471	2.0499
#1	28.240	123.21	53473.	344.19	3677.3	2046.8	1.2596	29.624
#2	26.861	130.55	52779.	342.21	3628.9	2043.5	1.2476	28.433
#3	27.021	130.27	52560.	340.97	3732.7	2029.4	1.3730	29.038

Elem	K_7664	Se1960	Ag3280	Na5895	Tl1908	Ti3349	V_2924	Zn2062
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**5002.4**	**-.68278**	**-.68512**	**100.87**	**-4.3335**	**435.74**	**67.938**	**1023.7**
Stddev	30.6	1.3805	.26818	9.66	.5575	3.23	1.787	5.9
%RSD	.61151	202.18	39.144	9.5814	12.865	.74117	2.6306	.57872
#1	5035.8	-2.2720	-.99477	94.576	-3.6996	437.25	65.883	1029.2
#2	4995.6	.21918	-.52736	96.039	-4.7477	437.94	68.803	1024.5
#3	4975.8	.00443	-.53323	112.00	-4.5532	432.03	69.128	1017.5

Int. Std.	Sc2273	Sc3613	Sc3613-2	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3544.6**	**36115.**	**500420.**	**4792.3**	**15869.**	**231610.**
Stddev	11.1	68.	3517.	17.7	37.	1873.
%RSD	.31348	.18909	.70272	.36834	.23225	.80848
#1	3535.4	36163.	502180.	4778.1	15858.	232300.
#2	3541.4	36037.	496370.	4786.8	15838.	229490.
#3	3556.9	36145.	502700.	4812.1	15910.	233040.

Sample Name: MF9K29 Acquired: 06/30/2015 16:18:25 Type: Unk
Method: ICP08 ISM01.3 2015(v11) Mode: CONC Corr. Factor: 1.000000
User: Neil.Edwards SDG#: MF9K15 CASE#: 45299 Prep: 3050B
Comment: Al,Ca,Fe,Mg,Mn,K,Na

Elem	Al3082	Sb2068	As1890	Ba4554	Be3131	Cd2144	Ca3179	Cr2055
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**30125.**	**-.43422**	**23.341**	**383.36**	**1.6677**	**1.8453**	**7696.5**	**55.790**
Stddev	220.	2.0933	1.540	1.76	.1318	.1451	9.3	.286
%RSD	.73015	482.08	6.5956	.45930	7.9016	7.8610	.12107	.51317
#1	30247.	1.8443	22.122	383.27	1.5206	1.9535	7688.8	56.066
#2	30257.	-2.2722	22.830	385.16	1.7077	1.9019	7706.9	55.810
#3	29871.	-.87479	25.071	381.64	1.7749	1.6805	7693.9	55.495

Elem	Co2286	Cu3273	Fe2598	Pb2203	Mg2790	Mn2576	Mo2020	Ni2316
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**34.710**	**102.27**	**68718.**	**151.73**	**3677.4**	**2802.9**	**2.0165**	**23.699**
Stddev	.443	1.12	277.	1.59	34.5	5.8	.1471	.279
%RSD	1.2761	1.0928	.40264	1.0491	.93926	.20722	7.2968	1.1760
#1	35.216	103.42	68721.	151.58	3717.1	2809.1	1.9294	23.472
#2	34.393	101.19	68993.	153.39	3653.9	2801.8	2.1864	24.010
#3	34.520	102.21	68440.	150.21	3661.2	2797.7	1.9338	23.614

Elem	K_7664	Se1960	Ag3280	Na5895	Tl1908	Ti3349	V_2924	Zn2062
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**6394.1**	**-1.1033**	**-.84879**	**112.02**	**-5.0800**	**556.41**	**78.825**	**884.72**
Stddev	16.9	5.0154	.44954	14.02	1.8609	2.76	.934	3.58
%RSD	.26411	454.59	52.963	12.516	36.632	.49626	1.1847	.40429
#1	6390.5	4.3444	-.96704	128.02	-3.0543	557.82	77.752	888.44
#2	6412.5	-5.5290	-.35194	106.15	-6.7137	558.17	79.449	884.41
#3	6379.4	-2.1252	-1.2274	101.88	-5.4719	553.22	79.276	881.31

Int. Std.	Sc2273	Sc3613	Sc3613-2	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3534.2**	**36039.**	**498290.**	**4777.1**	**15879.**	**230260.**
Stddev	18.3	14.	6523.	12.7	53.	2057.
%RSD	.51908	.03994	1.3090	.26522	.33451	.89344
#1	3513.1	36048.	505820.	4763.9	15932.	227890.
#2	3542.5	36022.	494450.	4778.4	15878.	231420.
#3	3546.9	36046.	494590.	4789.1	15826.	231480.

Sample Name: CCV2 Acquired: 06/30/2015 16:21:15 Type: QC
Method: ICP08 ISM01.3 2015(v11) Mode: CONC Corr. Factor: 1.000000
User: Neil.Edwards SDG#: MF9K15 CASE#: 45299 Prep:
Comment: Al,Ca,Fe,Mg,Mn,K,Na

Elem	Al3082	Sb2068	As1890	Ba4554	Be3131	Cd2144	Ca3179
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**252910.**	**24749.**	**10219.**	**25125.**	**10068.**	**9838.2**	**254600.**
Stddev	1218.	73.	26.	422.	57.	30.1	1829.
%RSD	.48139	.29508	.25540	1.6776	.56471	.30611	.71819
#1	254000.	24813.	10225.	25511.	10128.	9868.7	256570.
#2	253140.	24669.	10190.	25190.	10060.	9808.4	254270.
#3	251600.	24766.	10242.	24675.	10015.	9837.4	252950.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Cr2055	Co2286	Cu3273	Fe2598	Pb2203	Mg2790	Mn2576
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**24558.**	**25969.**	**24701.**	**255870.**	**24975.**	**250820.**	**24526.**
Stddev	43.	50.	90.	1778.	89.	1286.	126.
%RSD	.17446	.19440	.36387	.69501	.35538	.51282	.51564
#1	24604.	26015.	24703.	257610.	25039.	252220.	24646.
#2	24520.	25915.	24790.	255940.	24873.	250550.	24539.
#3	24548.	25977.	24610.	254060.	25012.	249690.	24394.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Mo2020	Ni2316	K_7664	Se1960	Ag3280	Na5895	Tl1908
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**9800.9**	**25935.**	**252860.**	**9940.6**	**1005.5**	**257300.**	**9512.6**
Stddev	21.9	40.	1358.	38.6	4.7	3736.	34.6
%RSD	.22333	.15303	.53724	.38787	.46662	1.4521	.36420
#1	9820.5	25969.	254110.	9955.1	1004.1	260350.	9506.5
#2	9777.3	25891.	253050.	9896.9	1001.7	258430.	9481.4
#3	9804.8	25945.	251410.	9969.8	1010.7	253130.	9549.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Sample Name: CCV2 Acquired: 06/30/2015 16:21:15 Type: QC
Method: ICP08 ISM01.3 2015(v11) Mode: CONC Corr. Factor: 1.000000
User: Neil.Edwards SDG#: MF9K15 CASE#: 45299 Prep:
Comment: Al,Ca,Fe,Mg,Mn,K,Na

Elem	Ti3349	V_2924	Zn2062
Units	ug/L	ug/L	ug/L
Avg	**10049.**	**25248.**	**24544.**
Stddev	47.	349.	90.
%RSD	.46560	1.3823	.36760
#1	10086.	25650.	24643.
#2	10066.	25022.	24467.
#3	9996.7	25073.	24522.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value			
Range			

Int. Std.	Sc2273	Sc3613	Sc3613-2	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2687.3**	**33533.**	**425450.**	**4094.6**	**14720.**	**197200.**
Stddev	1.1	257.	5080.	1.9	126.	398.
%RSD	.04087	.76673	1.1941	.04539	.85511	.20161
#1	2688.1	33310.	419610.	4093.2	14593.	196780.
#2	2686.1	33476.	427950.	4093.9	14722.	197560.
#3	2687.9	33814.	428800.	4096.7	14845.	197270.

Sample Name: CCB2 Acquired: 06/30/2015 16:24:13 Type: QC
Method: ICP08 ISM01.3 2015(v11) Mode: CONC Corr. Factor: 1.000000
User: Neil.Edwards SDG#: MF9K15 CASE#: 45299 Prep:
Comment: Al,Ca,Fe,Mg,Mn,K,Na

Elem	Al3082	Sb2068	As1890	Ba4554	Be3131	Cd2144	Ca3179	Cr2055
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**9.5917**	**.16521**	**.19470**	**1.0499**	**.57296**	**.21806**	**6.5501**	**.18798**
Stddev	12.632	.92019	1.3368	.2871	.21935	.05002	3.9439	.41707
%RSD	131.70	556.98	686.60	27.344	38.284	22.937	60.211	221.87
#1	21.633	.61598	-.88518	1.2764	.59221	.27484	10.784	.63104
#2	-3.5580	-.89345	1.6898	1.1462	.78205	.19883	2.9806	-.19700
#3	10.700	.77311	-.22057	.72703	.34461	.18051	5.8857	.12989
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Co2286	Cu3273	Fe2598	Pb2203	Mg2790	Mn2576	Mo2020	Ni2316
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**.47794**	**1.3501**	**34.480**	**1.4946**	**27.572**	**1.4226**	**.76976**	**-.42763**
Stddev	.22493	.5177	3.449	.3982	30.837	.4918	.47309	.14964
%RSD	47.062	38.348	10.003	26.644	111.84	34.566	61.459	34.993
#1	.66555	1.9216	38.459	1.6175	23.999	1.9785	1.1348	-.38814
#2	.22859	1.2165	32.635	1.8169	60.041	1.0442	.93923	-.59306
#3	.53969	.91226	32.346	1.0494	-1.3224	1.2453	.23528	-.30170
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	K_7664	Se1960	Ag3280	Na5895	Tl1908	Ti3349	V_2924	Zn2062
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**-20.050**	**4.0118**	**-.13219**	**27.281**	**1.6902**	**1.4418**	**1.0500**	**-.42832**
Stddev	23.757	1.0625	.05160	8.520	1.4075	.8506	.5683	.28520
%RSD	118.49	26.483	39.031	31.230	83.271	58.994	54.121	66.585
#1	6.5177	3.5802	-.18690	37.099	.28070	1.1166	1.3626	-.49657
#2	-27.417	3.2330	-.08441	21.816	3.0956	2.4069	.39406	-.11519
#3	-39.250	5.2221	-.12525	22.930	1.6944	.80176	1.3934	-.67320
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: CCB2 Acquired: 06/30/2015 16:24:13 Type: QC
Method: ICP08 ISM01.3 2015(v11) Mode: CONC Corr. Factor: 1.000000
User: Neil.Edwards SDG#: MF9K15 CASE#: 45299 Prep:
Comment: Al,Ca,Fe,Mg,Mn,K,Na

Int. Std.	Sc2273	Sc3613	Sc3613-2	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3734.1**	**35105.**	**501660.**	**4763.7**	**15439.**	**230940.**
Stddev	13.2	33.	1765.	10.5	20.	1114.
%RSD	.35286	.09309	.35192	.22005	.13271	.48250
#1	3718.9	35079.	501200.	4753.7	15462.	230060.
#2	3741.5	35095.	500170.	4762.7	15434.	230580.
#3	3742.0	35142.	503610.	4774.6	15422.	232190.

Run MS215065 Summary		9Be	51V	52Cr	59Co	60Ni	63Cu	66Zn	75As	82Se	107Ag	111Cd	121Sb	137Ba	205Tl	208Pb	6Li	45Sc	89Y	103Rh	159Tb	209Bi
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
S0	06/29/2015 14:50:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
S	06/29/2015 14:54:35	1.0021	5.1307	1.8895	0.9468	1.0198	1.9438	2.1066	0.9145	4.9777	1.0043	0.9605	1.9488	9.8274	0.9354	0.9286	102.52%	101.76%	100.53%	101.22%	100.02%	99.94%
S10	06/29/2015 14:58:54	10.259	9.6195	9.6357	9.6539	10.125	9.7797	12.278	9.7025	10.134	9.8468	10.01	9.3892	9.8849	9.4612	9.4774	102.45%	101.51%	100.71%	101.34%	100.09%	100.28%
S50	06/29/2015 15:03:14	50.933	48.118	48.318	48.38	49.839	49.195	50.695	48.621	50.536	49.171	49.305	47.311	49.622	47.341	47.242	102.68%	100.46%	98.67%	99.80%	98.52%	98.83%
S200	06/29/2015 15:07:33	206.73	197.73	197.85	199.57	202	201.6	207.41	195.01	202.1	200.93	200.64	192.59	199.68	195.98	193.44	100.82%	97.68%	96.61%	97.53%	96.42%	97.38%
S500	06/29/2015 15:11:53	508.56	501.77	501.92	498.18	501.32	501.18	512.88	483.77	499.1	499.72	496.98	483.02	491.26	499.46	489.04	98.97%	96.07%	94.62%	96.31%	96.08%	97.56%
S2500	06/29/2015 15:16:14	2528.1	2525.5	2504.9	2523.6	2513.6	2524.7	2585.8	2488.9	0.3649	0.8218	2564.8	2513.2	2534.3	2487.4	2483.6	95.13%	90.44%	88.31%	89.56%	90.69%	91.43%
S5000	06/29/2015 15:20:34	4984.8	4987.2	4997.5	4988.4	4993	4987.5	4955.5	5007.4	0.4578	0.6326	4967.9	4995.4	4983.7	5006.5	5009.6	95.75%	91.28%	86.81%	87.67%	88.49%	87.81%
S50000	06/29/2015 15:24:57	0.8897	0.5137	0.8066	0.9496	1.6295	1.4345	2.635	0.9621	0.0107	0.2945	0.6491	1.6461	0.7145	0.9159	0.8077	90.82%	90.76%	85.13%	83.57%	85.39%	80.84%
S100000	06/29/2015 15:29:25	0.1699	-0.2417	0.1849	0.7068	1.8952	1.2841	1.9448	0.2005	-0.3264	0.2388	0.0789	0.5213	0.1661	0.1489	0.2478	86.65%	90.03%	82.03%	80.10%	80.38%	74.37%
ICV1	06/29/2015 15:33:46	104.39	97.435	95.465	98.524	100.39	101.31	208.58	199.9	205.13	99.572	99.193	188.1	99.502	200.9	195.17	101.04%	98.59%	94.19%	95.72%	92.74%	93.43%
ICB1	06/29/2015 15:38:09	0.0746	0.0027	-0.0347	0.0231	0.1278	0.0769	0.5578	0.0974	0.077	0.1718	0.0151	0.5941	0.0287	0.0758	0.0429	102.40%	99.41%	95.77%	97.61%	94.22%	95.85%
ICSA1	06/29/2015 15:42:30	0.3314	-3.0113	19.057	1.2989	6.3712	7.3846	11.386	0.3114	-0.0978	0.0439	0.2318	1.2824	1.5103	0.0415	4.3975	80.70%	85.97%	81.83%	79.89%	87.14%	80.13%
ICSAB1	06/29/2015 15:46:50	19.297	17.366	38.881	20.585	25.394	25.263	28.122	18.451	17.359	18.752	20.025	19.613	22.658	21.103	25.108	80.07%	86.03%	82.27%	80.13%	88.71%	80.86%
CCV1	06/29/2015 15:51:11	2540.2	2647.8	2538.2	2531.6	2506.1	2409.4	2394.2	2479.6	252.51	258.94	2580.3	2517.1	2640.9	2645.9	2614.7	88.30%	90.92%	85.32%	84.32%	88.15%	83.14%
CCB1	06/29/2015 15:55:31	0.415	0.2897	0.2863	0.3078	0.381	0.5062	0.6368	0.5022	0.1248	0.1044	0.3003	1.0105	0.3181	0.4335	0.3418	98.50%	96.81%	94.49%	96.65%	96.44%	97.64%
PBS1-5x	06/29/2015 15:59:52	0.1094	0.05	0.0007	0.0681	0.1601	0.1453	0.6106	0.109	-0.0439	0.0431	0.0736	0.3346	0.0749	0.0859	0.0821	103.35%	100.49%	97.10%	99.66%	98.53%	99.30%
LCS1-5x	06/29/2015 16:04:13	1.9854	10.194	3.733	1.9116	2.0698	3.9713	4.5665	1.8594	8.81	2.0036	1.8488	3.7788	19.234	1.8924	1.8825	104.27%	101.83%	97.35%	99.51%	98.50%	99.27%
MF9K02-5x	06/29/2015 16:08:34	0.8021	31.722	24.528	7.1913	14.557	209.51	179.81	5.1382	0.3082	0.0958	0.4869	0.2738	133.98	0.1653	94.257	96.32%	100.44%	99.69%	95.69%	95.99%	95.36%
MF9K03-5x	06/29/2015 16:12:54	0.7013	30.652	20.41	5.093	11.952	232.15	170.56	4.4727	0.4628	0.1072	0.4291	0.2137	97.979	0.1607	44.155	96.91%	100.59%	99.58%	96.18%	95.29%	94.87%
MF9K04-5x	06/29/2015 16:17:14	0.4255	19.627	13.854	6.5269	7.2777	55.15	121.23	3.3779	0.4039	0.0571	0.3089	0.1997	80.287	0.1123	29.631	97.56%	100.44%	98.09%	96.61%	95.38%	94.93%
MF9K05-5x	06/29/2015 16:21:35	0.4896	23.212	16.833	8.4842	8.6447	129.22	174.23	4.073	0.2106	0.0728	0.3958	0.1536	96.097	0.1335	35.123	97.53%	100.13%	98.13%	95.90%	95.25%	95.13%
MF9K06-5x	06/29/2015 16:25:55	0.3641	15.134	11.511	3.3009	6.7246	19.905	143.01	3.1646	0.3735	0.1507	0.9124	0.1712	82.355	0.0971	74.284	98.17%	99.46%	96.43%	95.67%	94.74%	94.28%
MF9K07-5X	06/29/2015 16:30:16	0.3918	17.61	13.147	3.7591	8.1592	21.033	155.5	3.5327	0.5024	0.1432	0.7414	0.1661	95.074	0.1076	75.233	99.85%	100.63%	96.89%	95.21%	93.43%	93.26%
MF9K07S-5x	06/29/2015 16:34:35	10.353	118.98	50.608	97.712	103.79	68.973	246.58	10.544	17.341	9.7703	10.117	5.6497	481.26	9.5751	79.607	99.27%	100.09%	95.91%	94.26%	91.38%	91.23%
MF9K07D-5x	06/29/2015 16:38:57	0.4252	18.32	13.652	3.8346	8.4445	21.41	157.6	3.5616	0.4094	0.1403	0.6597	0.19	96.375	0.1164	74.536	100.99%	101.35%	96.00%	94.55%	91.53%	91.16%
MF9K07L-5x	06/29/2015 16:43:16	0.0966	3.5111	2.6484	0.7612	1.7603	4.3726	33.075	0.7814	0.1256	0.0323	0.1554	0.0462	18.688	0.022	14.762	101.73%	100.34%	93.53%	95.72%	91.53%	92.55%
MF9K07A-5x	06/29/2015 16:47:36	10.179	67.088	31.041	12.586	17.237	38.867	168.27	11.599	42.325	9.8673	9.6909	18.388	187.78	9.4431	84.388	101.34%	100.99%	96.77%	92.87%	90.00%	88.33%
MF9K08-5x	06/29/2015 16:51:56	0.4501	21.933	15.878	4.7521	11.161	229.02	324.72	2.9837	0.3703	0.2014	0.9961	0.244	128.25	0.1325	99.539	100.73%	101.10%	95.32%	93.89%	90.49%	90.12%
MF9K09-5x	06/29/2015 16:56:16	0.7259	28.963	21.547	7.7287	13.267	60.977	151.25	4.7615	0.4159	0.0801	0.5903	0.1746	119.66	0.1364	84.454	100.59%	100.82%	95.86%	92.95%	89.44%	89.17%
MF9K10-5x	06/29/2015 17:00:36	0.7714	32.107	23.194	9.5056	14.479	260.8	225.56	5.4872	0.3449	0.1155	0.664	0.1858	137.11	0.1506	93.24	101.37%	100.48%	95.15%	92.06%	89.15%	89.01%
MF9K11-5x	06/29/2015 17:04:56	0.7637	31.784	22.586	5.954	15.247	45.656	147.75	4.825	0.4855	0.0764	0.5047	0.1163	106.18	0.1452	52.878	101.53%	100.67%	94.39%	91.69%	87.64%	87.53%
MF9K12-5x	06/29/2015 17:09:23	0.6866	30.761	20.991	8.9621	13.131	191.27	315.2	4.5455	0.6029	0.1691	0.905	0.2804	155.16	0.1687	96.206	101.22%	100.01%	93.48%	90.98%	87.04%	87.20%
MF9K13-5x	06/29/2015 17:13:43	0.415	21.952	13.529	4.8947	8.1329	61.807	110.93	2.8636	0.321	0.1202	0.3759	0.12	71.191	0.126	43.005	102.32%	100.87%	93.44%	92.45%	88.55%	88.43%
MF9K14-5x	06/29/2015 17:18:04	0.5438	28.227	17.91	6.9132	10.983	53.244	145.88	7.2837	0.2807	0.1161	0.6212	0.1513	97.402	0.1543	57.655	102.46%	101.22%	93.76%	91.68%	87.34%	86.68%
ZZZZZZ	06/29/2015 17:22:25	-0.0109	-0.0098	-0.0453	0.0025	0.2341	-0.0089	2.172	-0.0212	-0.0826	0.0032	-0.0049	0.0056	0.0408	-0.005	0.0143	104.13%	100.89%	92.39%	95.45%	89.99%	91.13%
CCV2	06/29/2015 17:26:46	2614.5	2646.1	2496.9	2492.5	2473.3	2423	2319.1	2505.6	252.17	258.41	2517.2	2552.7	2583.4	2663.1	2634.4	94.83%	93.18%	81.66%	81.04%	79.53%	74.73%
CCB2	06/29/2015 17:31:39	0.2534	0.1441	0.1283	0.1516	0.2184	0.2672	0.2573	0.3449	0.0955	0.0664	0.1373	0.6861	0.1561	0.2537	0.1869	106.22%	100.80%	91.03%	93.78%	87.91%	89.33%
PBS1-5x	06/29/2015 17:36:00	0.0588	0.0264	-0.0353	0.0364	0.0701	0.0611	1.6746	0.119	0.0125	0.0178	0.0403	0.2419	0.0448	0.0551	0.0433	112.30%	104.98%	93.97%	96.67%	90.05%	91.01%
LCS1-5x	06/29/2015 17:40:20	2.0358	10.062	3.6739	1.8825	2.0991	4.0126	4.4959	1.8489	9.1664	1.9969	1.8714	3.8129	19.19	1.8837	1.899	112.68%	106.29%	94.49%	97.44%	90.75%	91.01%
MF9K26-5x	06/29/2015 17:44:42	0.4878	21.43	13.665	6.1835	7.3897	30.684	86.656	3.5293	0.3506	0.0532	0.4082	0.2271	86.426	0.1403	32.852	104.33%	102.67%	94.29%	92.59%	87.37%	87.47%
MF9K26S-5x	06/29/2015 17:49:11	10.35	118.01	49.272	97.3	100.7	77.352	174.34	10.054	16.209	9.7206	9.5646	3.6349	460.71	9.3325	35.903	102.52%	100.85%	93.28%	91.90%	86.84%	86.63%
MF9K26D-5x	06/29/2015 17:53:33	0.4637	21.19	13.492	6.1731	7.3866	30.584	87.179	3.4368	0.2585	0.0481	0.4037	0.1396	86.087	0.1314	32.545	104.09%	102.42%	94.76%	93.41%	87.34%	87.26%
MF9K26L-5x	06/29/2015 17:57:53	0.113	4.4058	2.8126	1.2975	1.5498	6.3803	19.904	0.7231	-0.0458	0.0103	0.0961	0.048	17.432	0.0217	6.4771	103.01%	99.69%	91.88%	93.73%	88.31%	89.72%
MF9K26A-5x	06/29/2015 18:02:13	10.374	71.441	31.593	15.157	16.807	49.139	102.72	12.01	43.113	9.7948	9.5576	18.225	179.68	9.5253	42.263	102.09%	99.83%	92.72%	90.34%	85.89%	84.81%
MF9K15-5x	06/29/2015 18:06:35	0.6829	30.365	21.154	8.868	13.274	86.359	283.26	4.6494	0.7045	0.1602	0.9639	0.2469	152.75	0.1671	98.803	103.36%	101.01%	93.04%	90.35%	86.16%	85.72%
MF9K16-5x	06/29/2015 18:10:56	0.4256	20.501	13.996	4.233	9.1345	38.494	211.82	2.9004	0.3654	0.1606	0.7695	0.1455	105.1	0.128	82.448	103.21%	100.72%	93.01%	91.61%	87.24%	87.11%
MF9K17-5x	06/29/2015 18:15:16	0.4923	24.768	16.042	5.7674	9.9709	90.471	143.1	6.6176	0.4885	0.1038	0.5264	0.1111	95.417	0.1361	53.232	103.17%	100.46%	93.82%	92.14%	88.31%	87.71%
MF9K19-5x	06/29/2015 18:19:36	0.6709	28.704	19.687	5.6426	11.168	57.754	113.81	3.348	0.5019	0.0442	0.2915	0.0931	118.46	0.1348	30.056	101.66%	99.64%	93.63%	91.43%	88.42%	88.63%
MF9K20-5x	06/29/2015 18:23:55	0.4163	21.909	15.383	4.9823	8.4266	36.292	133	3.0315	0.3423	0.1261	0.4484	0.1404	75.154	0.1321	52.809	102.22%	99.42%	92.98%	92.08%	88.89%	89.30%
MF9K21-5x	06/29/2015 18:28:15	0.4107	18.787	12.101	5.3733	6.4675	54.33	78.785	3.0496	0.2716	0.0424	0.4013	0.121	71.652	0.1102	28.324	104.15%	100.12%	93.14%	91.73%	87.44%	87.91%
MF9K22-5x	06/29/2015 18:32:34	0.5554	22.406	17.649	6.4963	9.9471	30.652	257.26	3.6441	0.5527	0.0739	0.6648	0.1789	113.89	0.137	83.919	102.98%	99.61%	92.17%	90.55%	86.02%	86.55%
MF9K23-5x	06/29/2015 18:36:54	0.7714	33.033	22.047	6.6456	13.065	27.37	110.03	3.4375	0.4609	0.0501	0.3248	0.1216	124.84	0.1559	33.706	103.41%	100.10%	95.22%	90.27%	85.94%	85.74%
MF9K25-5x	06/29/2015 18:41:14	0.621	29.121	19.706	6.7527	12.244	30.548	145.25	6.1481	0.5364	0.1196	0.4721	0.158	100.67	0.1723	52.863	102.93%	98.49%	91.66%	89.34%	85.76%	85.44%
MF9K27-5x	06/29/2015 18:45:39	0.509	25.13	16.131	6.4749	9.3423	26.63	98.387	3.4821	0.2194	0.0668	0.322	0.1197	82.714	0.1429	38.587	102.69%	98.05%	91.61%	90.44%	86.77%	87.30%
MF9K28-5x	06/29/2015 18:50:00	0.4604	19.416	15.367	5.7801	8.7462	27.888	201.67	3.2713	0.3975	0.0683	0.5557	0.1269	92.872	0.1153	71.296	103.09%	98.69%	91.70%	90.78%	86.78%	87.20%
MF9K29-5x	06/29/2015 18:54:21	0.4594	22.167	14.896	7.6796	8.2565	23.47	176.02	3.5196	0.2483	0.0476	0.3451	0.1189	88.696	0.1255	33.024	103.25%	99.33%	91.77%	90.67%	86.88%	87.14%
ZZZZZZ	06/29/2015 18:58:45	-0.0052	-0.0012	-0.0519	-0.0003	0.0256	-0.1053	0.2233	0.0049	-0.0869	0.0002	-0.0157	0.004	0.0207	0.0046	-0.0047	103.57%	98.28%	89.49%	92.63%	87.20%	89.36%
CCV3	06/29/2015 19:03:06	2580.5	2612.3	2457.6	2468.8	2450.9	2400.8	2278.6	2468.4	248.52	254.44	2476.3	2537.6	2531.8	2642.1	2608.1	97.41%	93.41%	80.42%	80.04%	77.79%	73.68%
CCB3	06/29/2015 19:07:29	0.3098	0.1974	0.1538	0.1997	0.2202	0.3211	0.2598	0.4032	0.0801	0.0849	0.1925	0.9629	0.2018	0.3507	0.2425	109.12%	100.62%	89.57%	92.57%	85.78%	87.42%

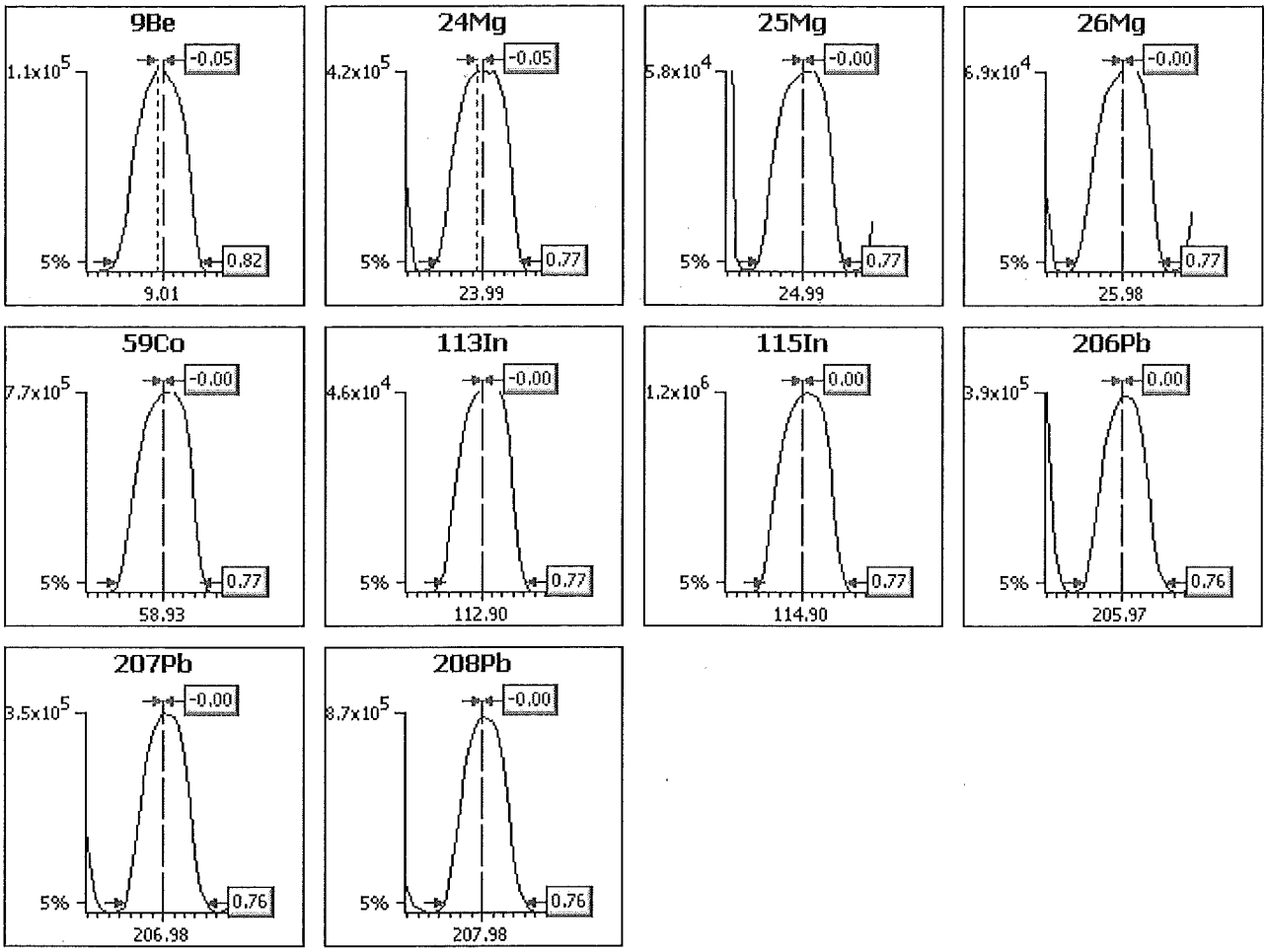
Performance Report

Tune - Run # M5215065

Sample details
Acquired at : 06/29/2015 14:25:07
Report name : CLP [10/19/2012 10:16:28]

Mass Calibration verification

Acquisition parameters
Sweeps : 10
Dwell : 5.0 mSecs
Point spacing : 0.05 amu
Peak width measured at 5% of the peak maximum



Analyte	Limits			Results	
	Max. width	Min. width	Max. error	Peak width	Peak error
9Be	0.85	0.65	0.11	0.82	-0.05
24Mg	0.85	0.65	0.11	0.77	-0.05
25Mg	0.85	0.65	0.11	0.77	-0.00
26Mg	0.85	0.65	0.11	0.77	-0.00
59Co	0.85	0.65	0.11	0.77	-0.00
113In	0.85	0.65	0.11	0.77	-0.00
115In	0.85	0.65	0.11	0.77	0.00
206Pb	0.85	0.65	0.11	0.76	0.00
207Pb	0.85	0.65	0.11	0.76	-0.00
208Pb	0.85	0.65	0.11	0.76	-0.00

Tune - Run # M5215065

Sample details
Acquired at : 06/29/2015 14:25:07
Report name : CLP [10/19/2012 10:16:28]

Tune conditions

Major	
Extraction	-149
Lens 1	4.7
Focus	26.9
D1	-32.9
Pole Bias	-0.0
Hexapole Bias	-5.0
Nebuliser	0.80
Sampling Depth	130

Minor	
Lens 2	-27.5
Lens 3	-115.3
Forward power	1404
Horizontal	79
Vertical	467
D2	-160
DA	-80.0
Cool	13.0
Auxiliary	0.90

Global	
Standard resolution	125
High resolution	125
Analogue Detector	1951
PC Detector	3225

Add. Gases

Sensitivity and stability results

Acquisition parameters

Sweeps : 130

Run	Time	5Bkg	9Be	24Mg	25Mg	26Mg	56Ar O	59Co	138Ba++	101Bkg
Dwell (mSecs)		100.0	10.0	10.0	10.0	10.0	10.0	10.0	30.0	100.0
Limits	%RSD	-	5.0%	5.0%	5.0%	5.0%	-	5.0%	-	-
	Countrate	-	>3000	>10000	>10000	>10000	-	>10000	-	-
1	14:25:28	1.077	104355.49	450181.53	57531.757	68916.876	351457.52	766023.52	20826.762	1.385
2	14:26:40	2.462	105074.44	455090.78	57565.063	68801.311	346697.28	769439.26	20531.929	2.231
3	14:27:53	2.000	106927.01	459871.26	58180.081	69268.232	348650.93	782277.51	20588.479	1.615
4	14:29:05	1.692	107464.63	458000.81	57943.054	68985.129	344881.13	775364.01	20558.148	2.154
5	14:30:18	1.846	108038.13	463523.98	58146.773	69908.934	343651.08	777171.29	20276.690	1.692
x		1.815	106371.94	457333.67	57873.346	69176.096	347067.59	774055.12	20556.401	1.815
σ		0.50	1583.34	5034.58	310.41	444.32	3097.12	6419.58	195.55	0.36
%RSD		27.721	1.488	1.101	0.536	0.642	0.892	0.829	0.951	20.010

Run	Time	113In	115In	138Ba	140Ce	156Ce O	206Pb	207Pb	208Pb	220Bkg
Dwell (mSecs)		10.0	10.0	10.0	10.0	30.0	10.0	10.0	10.0	100.0
Limits	%RSD	5.0%	5.0%	-	-	-	5.0%	5.0%	5.0%	-
	Countrate	>10000	>10000	-	-	-	>10000	>10000	>10000	<20
1	14:25:28	49248.945	1155054.0	836305.47	1178723.1	18433.699	398005.12	356486.03	867970.19	1.769
2	14:26:40	49020.682	1157347.2	838228.93	1179972.9	18299.301	398334.14	358368.08	869577.00	2.308
3	14:27:53	49471.798	1157149.3	840767.31	1181591.5	18640.312	398554.30	358109.62	868482.77	1.462
4	14:29:05	49127.462	1148332.4	835162.80	1172446.3	18795.531	395578.17	356172.26	861168.99	1.769
5	14:30:18	48543.284	1147997.5	834469.80	1171357.2	18568.356	395899.84	356482.82	863274.92	2.000
x		49082.434	1153176.1	836986.86	1176818.2	18547.440	397274.31	357123.76	866094.77	1.862
σ		344.91	4663.43	2547.63	4617.93	190.47	1419.66	1029.94	3659.25	0.31
%RSD		0.703	0.404	0.304	0.392	1.027	0.357	0.288	0.423	16.887

Ratio results

Run	Time	56Ar O/59Co	138Ba++/138Ba	115In/101Bkg	156Ce O/140Ce
Ratio limits		-	-	>10000.0000	<0.0300
1	14:25:28	0.459	0.025	834205.56	0.016
2	14:26:40	0.451	0.024	518810.76	0.016
3	14:27:53	0.446	0.024	716330.44	0.016
4	14:29:05	0.445	0.025	533154.24	0.016
5	14:30:18	0.442	0.024	678362.10	0.016
x		0.4484	0.0246	656172.62	0.0158
σ		0.01	0.00	132106.84	0.00
%RSD		1.4627	0.9074	20.1329	1.2700

Result : The performance report passed.

Experiment Details

Description	PlasmaLab Template BlankExperiment
Template Filename	C:\Program Files\Thermo Fisher\PlasmaLab\data\MS215062.tee
Created By User	Edwards
Analyte Database	ILM5.3.tea
Creation Timestamp	02/02/2005 10:10:19
Last Edited By	john.kershisnik
Last Edit Timestamp	06/30/2015 14:17:07
Instrument Detector	Simultaneous
Database Version	3.51
Acquisition Mode	Unknown

John Kershisnik
Run # MS215065
MF9K15
Cal: 45299
W.O. 1516423
ISM01.3 Soil

Numerical Results report key (text indicates meaning)

Blue text indicates that cell is a statistic.
Underlining indicates that a data warning flag is set.

Column headings	Result cells	Data warning flags
No flag	Internal Standard	I - Invalid calibration
Semi Quant	Excluded	T - Tripped
Standard Addition	QC Warning	F - Interference correction failed
Multi Element	QC Failure	M - Result over max
	Transient TRA only:	V - Valley integration failed
	Peak Not Found	D - Different method used
	Manually Edited	
	Merged Peak	

Setup

Survey Scan Setup

Sweeps	5
Dwell Time	600
Channels Per Mass	10
Acquisition Duration	6739

Main Run Setup

Main Run	Peak Jumping
Sweeps	40
Dwell Time	10000
Channels Per Mass	1
Acquisition Duration	36287
Channel Spacing	0.02

Survey Scan Regions

Start AMU	End AMU	Channels	Dwell ms	Resolution
4.59	11.50	69	600	Standard
12.50	13.50	10	600	
22.59	28.41	58	600	
30.59	31.50	9	600	
33.50	34.50	10	600	
36.50	37.50	10	600	
38.50	39.41	9	600	Standard
42.59	245.50	2029	600	Standard

Peak Jump Regions

Analyte	Channels	Dwell ms	Resolution
6Li	1	30000	Standard
7Li	1	10000	Standard
9Be	1	30000	Standard
13C	1	10000	
23Na	1	10000	
24Mg	1	5000	
25Mg	1	5000	
26Mg	1	5000	
27Al	1	10000	Standard
39K	1	10000	
43Ca	1	10000	
44Ca	1	10000	
45Sc	1	20000	Standard

47Ti	1	10000	Standard
51V	1	10000	Standard
52Cr	1	10000	Standard
53Cl O	1	10000	Standard
54Fe	1	10000	
55Mn	1	10000	Standard
56Fe	1	10000	
57Fe	1	10000	
59Co	1	10000	Standard
60Ni	1	10000	Standard
63Cu	1	10000	Standard
65Cu	1	10000	Standard
66Zn	1	10000	Standard
75As	1	30000	Standard
77Ar Cl	1	30000	Standard
78Se	1	30000	Standard
82Se	1	30000	Standard
83Kr	1	30000	Standard
86Sr	1	10000	Standard
88Sr	1	10000	Standard
89Y	1	10000	Standard
94Mo	1	10000	Standard
95Mo	1	10000	Standard
96Mo	1	10000	Standard
97Mo	1	10000	Standard
98Mo	1	10000	Standard
103Rh	1	10000	Standard
106Pd	1	10000	Standard
106Cd	1	10000	Standard
107Ag	1	20000	Standard
108Mo O	1	10000	Standard
109Ag	1	20000	Standard
111Cd	1	20000	Standard
115In	1	10000	Standard
118Sn	1	10000	Standard
121Sb	1	10000	Standard
135Ba	1	10000	Standard
137Ba	1	10000	Standard
159Tb	1	10000	Standard
203Tl	1	20000	Standard
205Tl	1	20000	Standard
206Pb	1	10000	Standard
207Pb	1	10000	Standard
208Pb	1	10000	Standard
209Bi	1	20000	Standard
220Bkg	1	10000	Standard

Calibration Technique

Use External Drift Correction - No
Calibrate by - Element

Symbol	Interference Correction	RSF	Calibration Method	Line Fit	Weighting	Forcing	Use for Semi-Quant	Max Error	Minimum Correlation
6Li	Yes	1.00	None				No		
7Li	Yes	1.00	None				No		
9Be	Yes	0.75	Fully-Quantified	Linear	None	Through Blank	Yes		0.995000
13C	Yes	0.05	None				No		
23Na	Yes	1.00	Fully-Quantified	Linear	None	Through Blank	Yes		0.995000
24Mg	Yes	0.98	Fully-Quantified	Linear	None	Through Blank	Yes		0.995000
25Mg	Yes	0.98	Fully-Quantified	Linear	None	Through Blank	Yes		0.995000
26Mg	Yes	0.98	Fully-Quantified	Linear	None	Through Blank	Yes		0.995000
27Al	Yes	0.98	Fully-Quantified	Linear	None	Through Blank	Yes		0.995000
39K	Yes	1.00	Fully-Quantified	Linear	None	Through Blank	Yes		0.995000
43Ca	Yes	0.99	None				No		
44Ca	Yes	0.99	Fully-Quantified	Linear	None	Through Blank	Yes		0.995000
45Sc	Yes	1.00	None				No		
47Ti	Yes	0.99	Semi-Quantified				No		
51V	Yes	0.99	Fully-Quantified	Linear	None	Through Blank	Yes		0.995000
52Cr	Yes	0.98	Fully-Quantified	Linear	None	Through Blank	Yes		0.995000
55Mn	Yes	0.95	Fully-Quantified	Linear	None	Through Blank	Yes		0.995000
54Fe	Yes	0.96	Fully-Quantified	Linear	None	Through Blank	Yes		0.995000
56Fe	Yes	0.96	Fully-Quantified	Linear	None	Through Blank	Yes		0.995000
57Fe	Yes	0.96	Fully-Quantified	Linear	None	Through Blank	Yes		0.995000
59Co	Yes	0.93	Fully-Quantified	Linear	None	Through Blank	Yes		0.995000
60Ni	No	0.91	Fully-Quantified	Linear	None	Through Blank	Yes		0.995000
63Cu	Yes	0.90	Fully-Quantified	Linear	None	Through Blank	Yes		0.995000
65Cu	Yes	0.90	Fully-Quantified	Linear	None	Through Blank	Yes		0.995000

66Zn	Yes	0.38	Fully-Quantified	Linear	None	Through Blank	Yes	0.995000
75As	Yes	0.07	Fully-Quantified	Linear	None	Through Blank	Yes	0.995000
78Se	Yes	0.10	Fully-Quantified	Linear	None	Through Blank	Yes	0.995000
82Se	Yes	0.10	Fully-Quantified	Linear	None	Through Blank	Yes	0.995000
83Kr	Yes	0.01	Semi-Quantified				No	
86Sr	Yes	0.96	None				No	
88Sr	Yes	0.96	None				No	
89Y	Yes	0.98	None				No	
94Mo	Yes	0.98	None				No	
95Mo	Yes	0.98	None				No	
96Mo	Yes	0.98	None				No	
97Mo	Yes	0.98	None				No	
98Mo	Yes	0.98	None				No	
103Rh	Yes	0.94	None				No	
106Pd	Yes	0.93	None				No	
107Ag	Yes	0.93	Fully-Quantified	Linear	None	Through Blank	Yes	0.995000
109Ag	Yes	0.93	Fully-Quantified	Linear	None	Through Blank	Yes	0.995000
106Cd	Yes	0.57	None				No	
111Cd	Yes	0.57	Fully-Quantified	Linear	None	Through Blank	Yes	0.995000
115In	Yes	0.99	None				No	
118Sn	Yes	0.96	None				No	
121Sb	Yes	0.39	Fully-Quantified	Linear	None	Through Blank	Yes	0.995000
135Ba	Yes	0.91	Fully-Quantified	Linear	None	Through Blank	Yes	0.995000
137Ba	Yes	0.91	Fully-Quantified	Linear	None	Through Blank	Yes	0.995000
159Tb	Yes	0.99	None				No	
203Tl	Yes	1.00	Fully-Quantified	Linear	None	Through Blank	Yes	0.995000
206Pb	Yes	0.97	Fully-Quantified	Linear	None	Through Blank	Yes	0.995000
207Pb	Yes	0.97	Fully-Quantified	Linear	None	Through Blank	Yes	0.995000
208Pb	Yes	0.97	Fully-Quantified	Linear	None	Through Blank	Yes	0.995000
209Bi	Yes	0.92	None				No	
205Tl	Yes	1.00	Fully-Quantified	Linear	None	Through Blank	Yes	0.995000
220Bkg	Yes		Semi-Quantified				No	
77Ar Cl	Yes		Semi-Quantified				No	
53Cl O	Yes		Semi-Quantified				No	
108Mo O	Yes		Semi-Quantified				No	

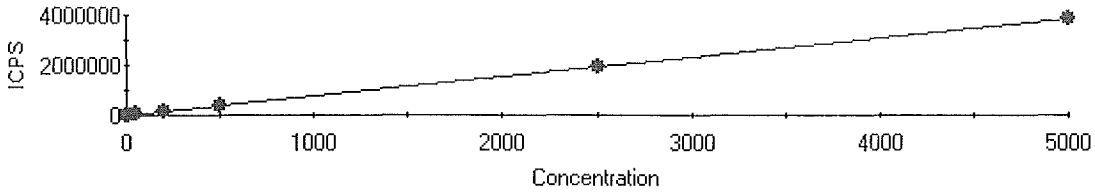
Sample List

No	Label	Type	Weight	Rack	Row	Col	Height
1	S0	Blank	1.000	1	1	1	144
2	S	Fully Quant Standard	1.000	1	1	2	144
3	S10	Fully Quant Standard	1.000	1	1	3	144
4	S50	Fully Quant Standard	1.000	1	1	4	144
5	S200	Fully Quant Standard	1.000	1	1	5	144
6	S500	Fully Quant Standard	1.000	1	1	6	144
7	S2500	Fully Quant Standard	1.000	1	1	7	144
8	S5000	Fully Quant Standard	1.000	1	1	8	144
9	S50000	Fully Quant Standard	1.000	1	1	9	144
10	S100000	Fully Quant Standard	1.000	1	1	10	144
11	ICV1	Unknown	1.000	1	1	11	144
12	ICB1	Unknown	1.000	1	1	12	144
13	ICSA1	Unknown	1.000	1	2	1	144
14	ICSAB1	Unknown	1.000	1	2	2	144
15	CCV1	Unknown	1.000	1	2	3	144
16	CCB1	Unknown	1.000	1	2	4	144
17	ZZZZZZ	Unknown	1.000	1	2	5	144
18	ZZZZZZ	Unknown	1.000	1	2	6	144
19	ZZZZZZ	Unknown	1.000	1	2	7	144
20	ZZZZZZ	Unknown	1.000	1	2	8	144
21	ZZZZZZ	Unknown	1.000	1	2	9	144
22	ZZZZZZ	Unknown	1.000	1	2	10	144
23	ZZZZZZ	Unknown	1.000	1	2	11	144
24	ZZZZZZ	Unknown	1.000	1	2	12	144
25	ZZZZZZ	Unknown	1.000	1	3	1	144
26	ZZZZZZ	Unknown	1.000	1	3	2	144
27	ZZZZZZ	Unknown	1.000	1	3	3	144
28	ZZZZZZ	Unknown	1.000	1	3	4	144
29	ZZZZZZ	Unknown	1.000	1	3	5	144
30	ZZZZZZ	Unknown	1.000	1	3	6	144
31	ZZZZZZ	Unknown	1.000	1	3	7	144
32	ZZZZZZ	Unknown	1.000	1	3	8	144
33	ZZZZZZ	Unknown	1.000	1	3	9	144
34	ZZZZZZ	Unknown	1.000	1	3	10	144
35	ZZZZZZ	Unknown	1.000	1	3	11	144
36	ZZZZZZ	Unknown	1.000	1	3	12	144
37	CCV2	Unknown	1.000	1	4	1	144
38	CCB2	Unknown	1.000	1	4	2	144
39	PBS1-5x	Unknown	1.000	1	4	3	144

40	LCS1-5x	Unknown	1.000	1	4	4	144
41	MF9K26-5x	Unknown	1.000	1	4	5	144
42	MF9K26S-5x	Unknown	1.000	1	4	6	144
43	MF9K26D-5x	Unknown	1.000	1	4	7	144
44	MF9K26L-5x	Unknown	1.000	1	4	8	144
45	MF9K26A-5x	Unknown	1.000	1	4	9	144
46	MF9K15-5x	Unknown	1.000	1	4	10	144
47	MF9K16-5x	Unknown	1.000	1	4	11	144
48	MF9K17-5x	Unknown	1.000	1	4	12	144
49	MF9K19-5x	Unknown	1.000	1	5	1	144
50	MF9K20-5x	Unknown	1.000	1	5	2	144
51	MF9K21-5x	Unknown	1.000	1	5	3	144
52	MF9K22-5x	Unknown	1.000	1	5	4	144
53	MF9K23-5x	Unknown	1.000	1	5	5	144
54	MF9K25-5x	Unknown	1.000	1	5	6	144
55	MF9K27-5x	Unknown	1.000	1	5	7	144
56	MF9K28-5x	Unknown	1.000	1	5	8	144
57	MF9K29-5x	Unknown	1.000	1	5	9	144
58	ZZZZZZ	Unknown	1.000	1	5	10	144
59	CCV3	Unknown	1.000	1	5	11	144
60	CCB3	Unknown	1.000	1	5	12	144

Fully Quant Calibration

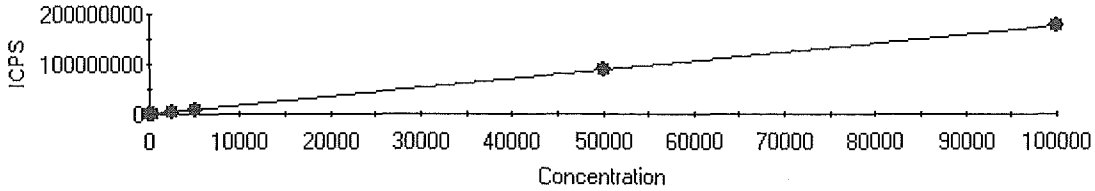
9Be FQ Block 1



Intercept CPS=30.822085 Intercept Conc=0.040143
Sensitivity=767.799832 Correlation Coeff=0.999978

Label	Defined	Measured	Error	Mean CPS	% Error
S0	0.000	-0.000	0.000	30.82	0.00
S	1.000	1.002	0.002	800.22	0.21
S10	10.000	10.259	0.259	7907.61	2.59
S50	50.000	50.933	0.933	39137.01	1.87
S200	200.000	206.732	6.732	158759.78	3.37
S500	500.000	508.556	8.556	390499.91	1.71
S2500	2500.000	2528.078	28.078	1941088.91	1.12
S5000	5000.000	4984.826	15.174	3827379.49	0.30

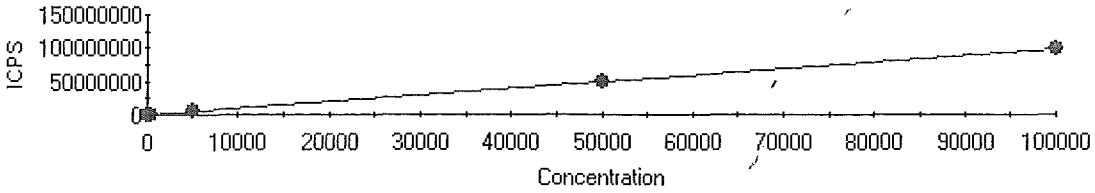
23Na FQ Block 1



Intercept CPS=23866.930056 Intercept Conc=13.476444
Sensitivity=1771.010999 Correlation Coeff=0.999941

Label	Defined	Measured	Error	Mean CPS	% Error
S0	0.000	-0.000	0.000	23866.93	0.00
S50	50.000	46.135	3.865	105572.88	7.73
S200	200.000	187.289	12.711	355557.30	6.36
S500	500.000	461.438	38.562	841078.04	7.71
S2500	2500.000	2374.598	125.402	4229305.31	5.02
S5000	5000.000	4770.632	229.368	8472708.58	4.59
S50000	50000.000	49039.850	960.150	86873981.21	1.92
S100000	100000.000	100494.898	494.898	178001437.48	0.49

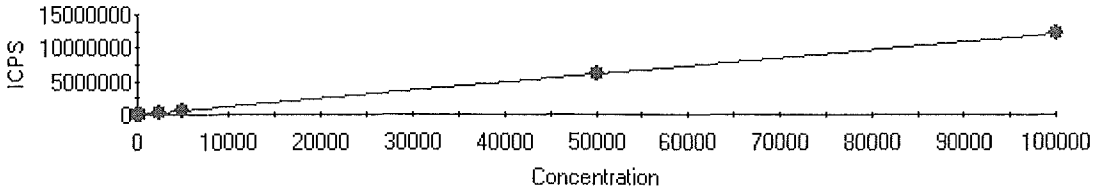
24Mg FQ Block 1



Intercept CPS=153.087492 Intercept Conc=0.155209
Sensitivity=986.333482 Correlation Coeff=0.999990

Label	Defined	Measured	Error	Mean CPS	% Error
S0	0.000	-0.000	0.000	153.09	0.00
S50	50.000	48.885	1.115	48370.36	2.23
S200	200.000	193.260	6.740	190771.91	3.37
S500	500.000	479.858	20.142	473452.93	4.03
S5000	5000.000	4848.051	151.949	4781948.04	3.04
S50000	50000.000	49620.280	379.720	48942296.50	0.76
S100000	100000.000	100197.572	197.572	98828373.43	0.20

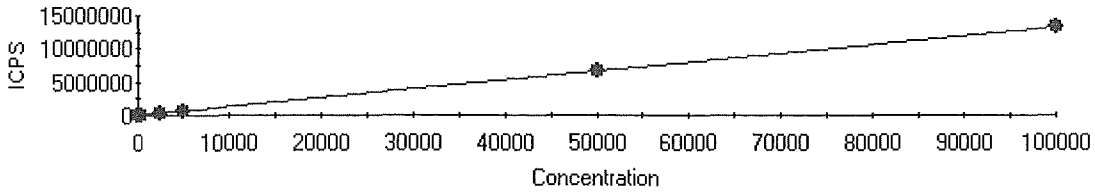
25Mg FQ Block 1



Intercept CPS=33.998589 Intercept Conc=0.278907
Sensitivity=121.899203 Correlation Coeff=0.999998

Label	Defined	Measured	Error	Mean CPS	% Error
S0	0.000	0.000	0.000	34.00	0.00
S50	50.000	48.912	1.088	5996.34	2.18
S200	200.000	197.811	2.189	24146.98	1.09
S500	500.000	489.535	10.465	59707.86	2.09
S2500	2500.000	2414.039	85.961	294303.40	3.44
S5000	5000.000	4806.003	193.997	585881.96	3.88
S50000	50000.000	50029.620	29.620	6098604.76	0.06
S100000	100000.000	99997.096	2.904	12189600.30	0.00

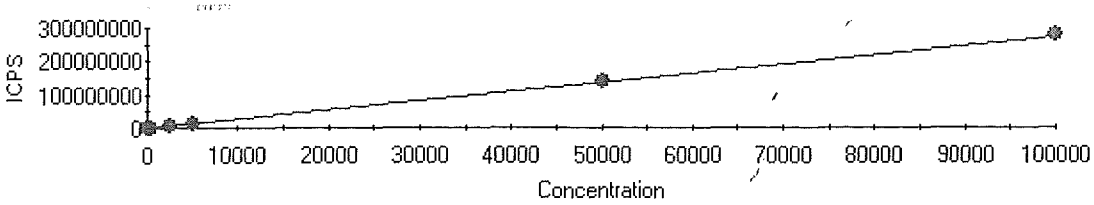
26Mg FQ Block 1



Intercept CPS=38.015799 Intercept Conc=0.284800
Sensitivity=133.482572 Correlation Coeff=0.999997

Label	Defined	Measured	Error	Mean CPS	% Error
S0	0.000	-0.000	0.000	38.02	0.00
S50	50.000	51.751	1.751	6945.81	3.50
S200	200.000	203.959	3.959	27263.02	1.98
S500	500.000	499.630	0.370	66729.92	0.07
S2500	2500.000	2478.682	21.318	330898.93	0.85
S5000	5000.000	4903.180	96.820	654527.06	1.94
S50000	50000.000	50197.511	197.511	6700530.86	0.40
S100000	100000.000	99906.612	93.388	13335829.52	0.09

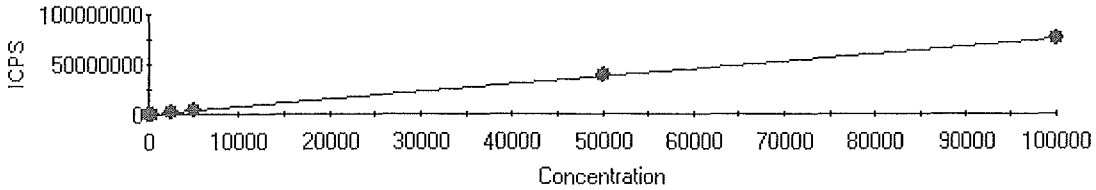
27Al FQ Block 1



Intercept CPS=1661.209203 Intercept Conc=0.606206
Sensitivity=2740.336334 Correlation Coeff=0.999999

Label	Defined	Measured	Error	Mean CPS	% Error
S0	0.000	-0.000	0.000	1661.21	0.00
S	20.000	19.760	0.240	55810.15	1.20
S50	50.000	52.590	2.590	145775.15	5.18
S200	200.000	204.636	4.636	562432.65	2.32
S500	500.000	507.890	7.890	1393451.14	1.58
S2500	2500.000	2516.279	16.279	6897110.96	0.65
S5000	5000.000	4951.134	48.866	13569432.52	0.98
S50000	50000.000	49910.989	89.011	136774556.83	0.18
S100000	100000.000	100046.492	46.492	274162698.53	0.05

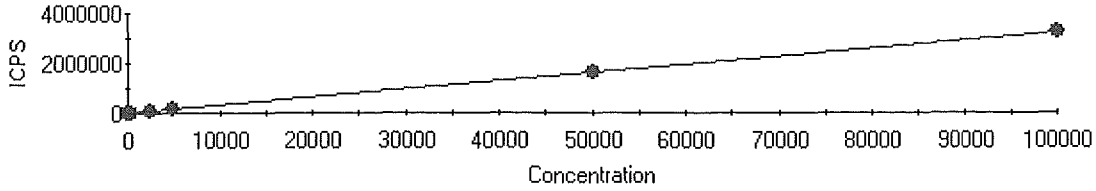
39K FQ Block 1



Intercept CPS=41522.860917 Intercept Conc=55.265621
Sensitivity=751.332566 Correlation Coeff=0.999936

Label	Defined	Measured	Error	Mean CPS	% Error
S0	0.000	0.000	0.000	41522.86	0.00
S50	50.000	50.477	0.477	79447.77	0.95
S200	200.000	213.167	13.167	201682.00	6.58
S500	500.000	522.645	22.645	434202.83	4.53
S2500	2500.000	2551.610	51.610	1958630.76	2.06
S5000	5000.000	4967.023	32.977	3773408.76	0.66
S50000	50000.000	51000.552	1000.552	38359898.24	2.00
S100000	100000.000	99499.943	500.057	74799070.32	0.50

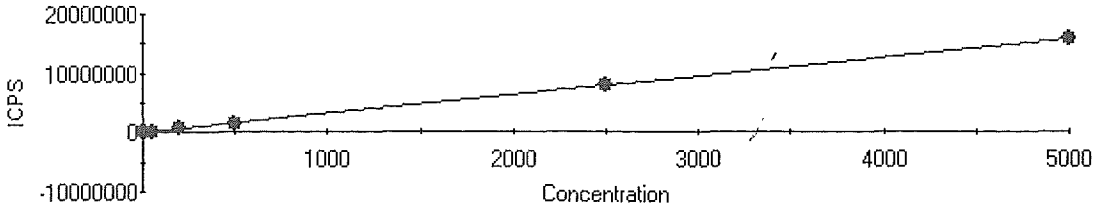
44Ca FQ Block 1



Intercept CPS=400.988736 Intercept Conc=12.323231
Sensitivity=32.539252 Correlation Coeff=0.999994

Label	Defined	Measured	Error	Mean CPS	% Error
S0	0.000	0.000	0.000	400.99	0.00
S50	50.000	47.174	2.826	1935.99	5.65
S200	200.000	194.404	5.596	6726.76	2.80
S500	500.000	476.818	23.182	15916.29	4.64
S2500	2500.000	2386.211	113.789	78046.51	4.55
S5000	5000.000	4708.332	291.668	153606.59	5.83
S50000	50000.000	49791.444	208.556	1620577.34	0.42
S100000	100000.000	100121.835	121.835	3258290.62	0.12

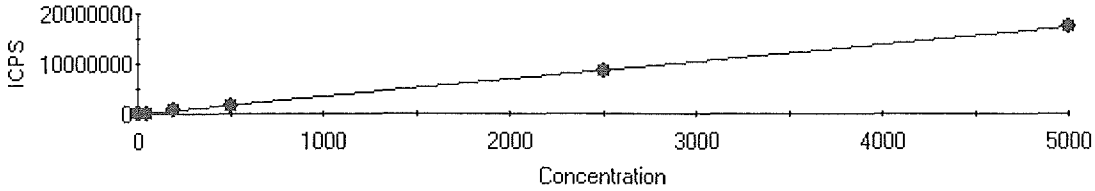
51V FQ Block 1



Intercept CPS=148.396487 Intercept Conc=0.047324
Sensitivity=3135.735501 Correlation Coeff=0.999982

Label	Defined	Measured	Error	Mean CPS	% Error
S0	0.000	0.000	0.000	148.40	0.00
S	5.000	5.131	0.131	16236.95	2.61
S10	10.000	9.620	0.380	30312.73	3.80
S50	50.000	48.118	1.882	151032.96	3.76
S200	200.000	197.731	2.269	620180.92	1.13
S500	500.000	501.769	1.769	1573562.56	0.35
S2500	2500.000	2525.455	25.455	7919305.84	1.02
S5000	5000.000	4987.206	12.794	15638707.49	0.26

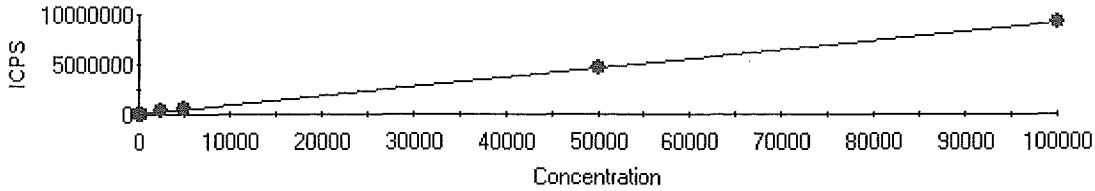
52Cr FQ Block 1



Intercept CPS=855.228067 Intercept Conc=0.248362
Sensitivity=3443.474543 Correlation Coeff=0.999999

Label	Defined	Measured	Error	Mean CPS	% Error
S0	0.000	0.000	0.000	855.23	0.00
S	2.000	1.890	0.110	7361.76	5.52
S10	10.000	9.636	0.364	34035.46	3.64
S50	50.000	48.318	1.682	167235.93	3.36
S200	200.000	197.853	2.147	682156.98	1.07
S500	500.000	501.920	1.920	1729203.91	0.38
S2500	2500.000	2504.894	4.894	8626393.79	0.20
S5000	5000.000	4997.465	2.535	17209497.02	0.05

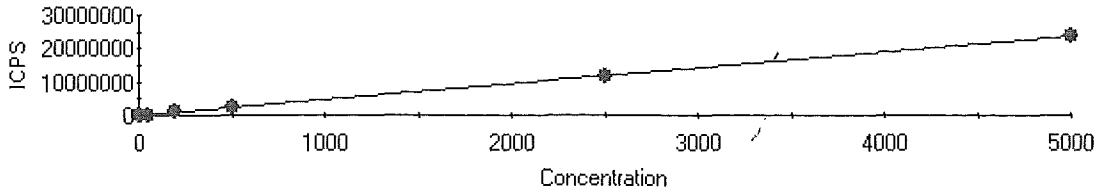
54Fe FQ Block 1



Intercept CPS=2314.579887 Intercept Conc=25.132533
Sensitivity=92.094971 Correlation Coeff=0.999805

Label	Defined	Measured	Error	Mean CPS	% Error
S0	0.000	0.000	0.000	2314.58	0.00
S50	50.000	67.784	17.784	8557.16	35.57
S200	200.000	279.774	79.774	28080.32	39.89
S500	500.000	701.674	201.674	66935.26	40.33
S2500	2500.000	3533.611	1033.611	327742.42	41.34
S5000	5000.000	7041.855	2041.855	650834.00	40.84
S50000	50000.000	50472.575	472.575	4650584.92	0.95
S100000	100000.000	99634.603	365.397	9178160.40	0.37

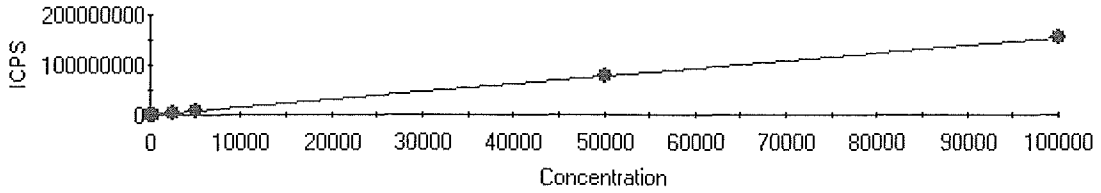
55Mn FQ Block 1



Intercept CPS=152.451296 Intercept Conc=0.032515
Sensitivity=4688.693050 Correlation Coeff=0.999991

Label	Defined	Measured	Error	Mean CPS	% Error
S0	0.000	0.000	0.000	152.45	0.00
S	1.000	0.978	0.022	4740.02	2.16
S10	10.000	10.005	0.005	47061.22	0.05
S50	50.000	49.592	0.408	232674.59	0.82
S200	200.000	203.659	3.659	955046.60	1.83
S500	500.000	500.778	0.778	2348144.44	0.16
S2500	2500.000	2518.568	18.568	11808946.34	0.74
S5000	5000.000	4990.496	9.504	23399055.40	0.19

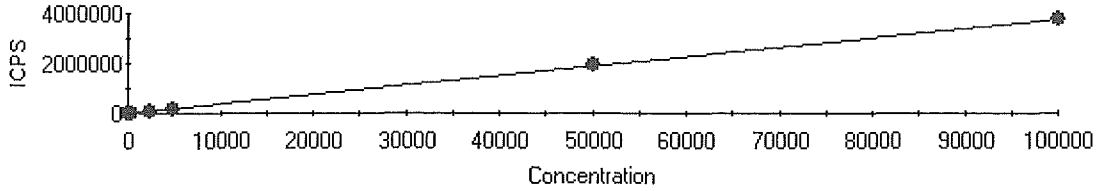
56Fe FQ Block 1



Intercept CPS=108785.173684 Intercept Conc=70.425081
Sensitivity=1544.693624 Correlation Coeff=0.999976

Label	Defined	Measured	Error	Mean CPS	% Error
S0	0.000	0.000	0.000	108785.17	0.00
S50	50.000	47.810	2.190	182637.23	4.38
S200	200.000	202.293	2.293	421266.22	1.15
S500	500.000	513.142	13.142	901431.94	2.63
S2500	2500.000	2586.922	86.922	4104786.60	3.48
S5000	5000.000	5128.519	128.519	8030775.97	2.57
S50000	50000.000	50607.868	607.868	78282435.97	1.22
S100000	100000.000	99687.398	312.602	154095273.05	0.31

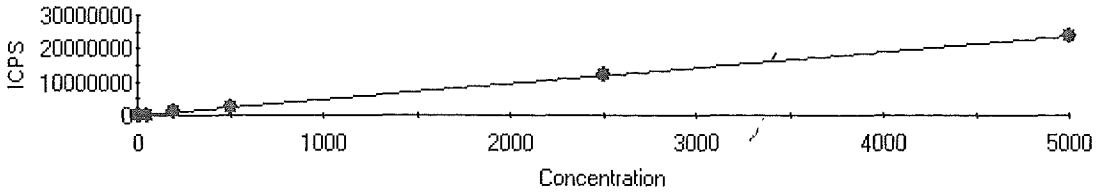
57Fe FQ Block 1



Intercept CPS=701.139862 Intercept Conc=18.455648
Sensitivity=37.990531 Correlation Coeff=0.999955

Label	Defined	Measured	Error	Mean CPS	% Error
S0	0.000	-0.000	0.000	701.14	0.00
S50	50.000	48.678	1.322	2550.45	2.64
S200	200.000	202.328	2.328	8387.69	1.16
S500	500.000	504.411	4.411	19863.98	0.88
S2500	2500.000	2507.608	7.608	95966.50	0.30
S5000	5000.000	4931.832	68.168	188064.04	1.36
S50000	50000.000	50831.645	831.645	1931822.31	1.66
S100000	100000.000	99587.370	412.630	3784078.16	0.41

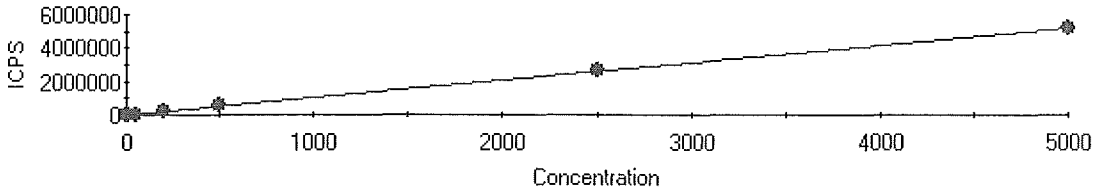
59Co FQ Block 1



Intercept CPS=21.987534 Intercept Conc=0.004624
Sensitivity=4754.646090 Correlation Coeff=0.999985

Label	Defined	Measured	Error	Mean CPS	% Error
S0	0.000	0.000	0.000	21.99	0.00
S	1.000	0.947	0.053	4523.54	5.32
S10	10.000	9.654	0.346	45923.08	3.46
S50	50.000	48.380	1.620	230053.96	3.24
S200	200.000	199.568	0.432	948897.91	0.22
S500	500.000	498.182	1.818	2368702.35	0.36
S2500	2500.000	2523.618	23.618	11998932.51	0.94
S5000	5000.000	4988.407	11.593	23718131.54	0.23

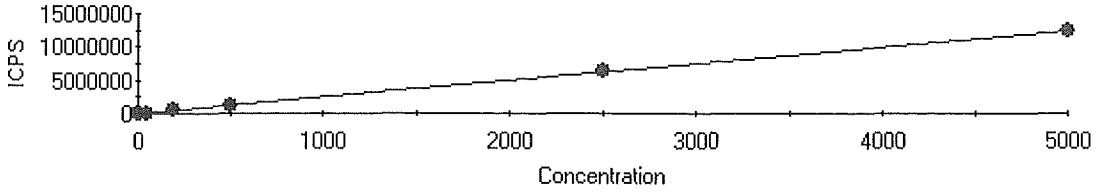
60Ni FQ Block 1



Intercept CPS=33.542498 Intercept Conc=0.031968
Sensitivity=1049.264420 Correlation Coeff=0.999995

Label	Defined	Measured	Error	Mean CPS	% Error
S0	0.000	0.000	0.000	33.54	0.00
S	1.000	1.020	0.020	1103.61	1.98
S10	10.000	10.125	0.125	10657.29	1.25
S50	50.000	49.839	0.161	52328.13	0.32
S200	200.000	202.003	2.003	211988.06	1.00
S500	500.000	501.319	1.319	526049.56	0.26
S2500	2500.000	2513.632	13.632	2637498.06	0.55
S5000	5000.000	4992.973	7.027	5238982.88	0.14

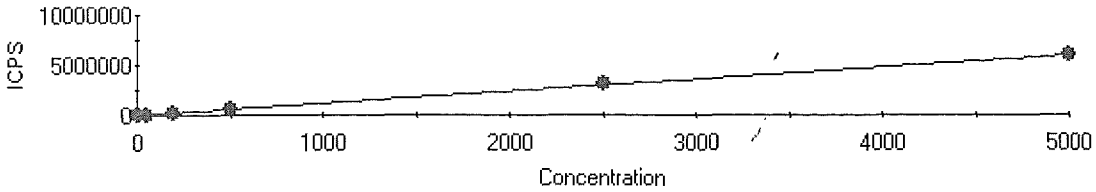
63Cu FQ Block 1



Intercept CPS=611.527901 Intercept Conc=0.246027
Sensitivity=2485.615396 Correlation Coeff=0.999984

Label	Defined	Measured	Error	Mean CPS	% Error
S0	0.000	0.000	0.000	611.53	0.00
S	2.000	1.944	0.056	5443.00	2.81
S10	10.000	9.780	0.220	24920.11	2.20
S50	50.000	49.195	0.805	122891.10	1.61
S200	200.000	201.601	1.601	501714.52	0.80
S500	500.000	501.181	1.181	1246355.90	0.24
S2500	2500.000	2524.731	24.731	6276120.98	0.99
S5000	5000.000	4987.461	12.539	12397521.33	0.25

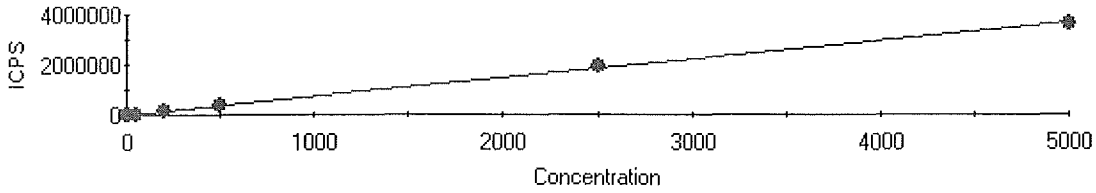
65Cu FQ Block 1



Intercept CPS=190.407816 Intercept Conc=0.158086
Sensitivity=1204.455362 Correlation Coeff=0.999994

Label	Defined	Measured	Error	Mean CPS	% Error
S0	0.000	0.000	0.000	190.41	0.00
S	2.000	1.999	0.001	2598.02	0.05
S10	10.000	9.984	0.016	12215.52	0.16
S50	50.000	49.465	0.535	59768.84	1.07
S200	200.000	200.025	0.025	241111.42	0.01
S500	500.000	497.961	2.039	599961.95	0.41
S2500	2500.000	2515.220	15.220	3029661.17	0.61
S5000	5000.000	4992.598	7.402	6013551.94	0.15

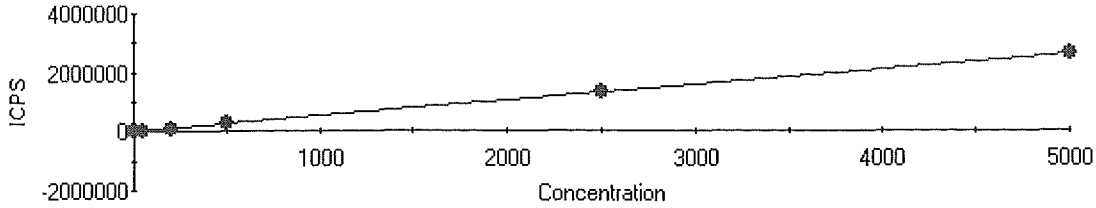
66Zn FQ Block 1



Intercept CPS=159.634801 Intercept Conc=0.216793
Sensitivity=736.346044 Correlation Coeff=0.999807

Label	Defined	Measured	Error	Mean CPS	% Error
S0	0.000	-0.000	0.000	159.63	0.00
S	2.000	2.107	0.107	1710.84	5.33
S10	10.000	12.278	2.278	9200.66	22.78
S50	50.000	50.695	0.695	37488.90	1.39
S200	200.000	207.410	7.410	152884.85	3.70
S500	500.000	512.884	12.884	377819.38	2.58
S2500	2500.000	2585.766	85.766	1904178.48	3.43
S5000	5000.000	4955.521	44.479	3649137.57	0.89

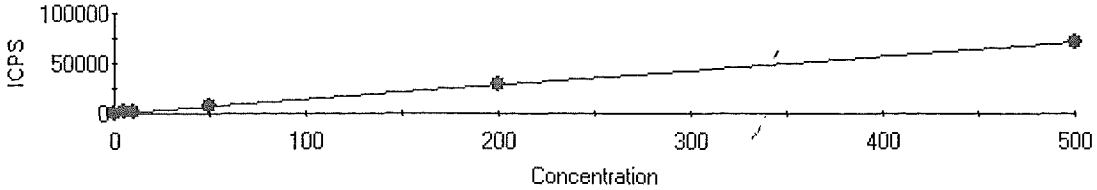
75As FQ Block 1



Intercept CPS=-10.407288 Intercept Conc=-0.019658
Sensitivity=529.423428 Correlation Coeff=0.999992

Label	Defined	Measured	Error	Mean CPS	% Error
S0	0.000	-0.000	0.000	-10.41	0.00
S	1.000	0.915	0.085	473.75	8.55
S10	10.000	9.702	0.298	5126.32	2.98
S50	50.000	48.621	1.379	25730.69	2.76
S200	200.000	195.012	4.988	103233.44	2.49
S500	500.000	483.768	16.232	256107.61	3.25
S2500	2500.000	2488.857	11.143	1317648.76	0.45
S5000	5000.000	5007.409	7.409	2651029.06	0.15

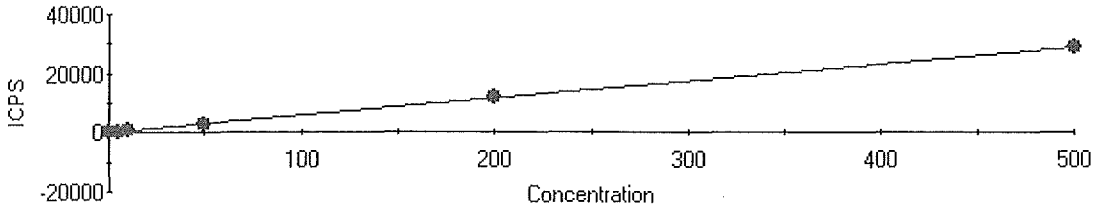
78Se FQ Block 1



Intercept CPS=859.625376 Intercept Conc=6.136381
Sensitivity=140.086695 Correlation Coeff=0.999972

Label	Defined	Measured	Error	Mean CPS	% Error
S0	0.000	0.000	0.000	859.63	0.00
S	5.000	4.821	0.179	1534.97	3.58
S10	10.000	9.943	0.057	2252.56	0.57
S50	50.000	50.583	0.583	7945.59	1.17
S200	200.000	203.186	3.186	29323.25	1.59
S500	500.000	498.670	1.330	70716.71	0.27

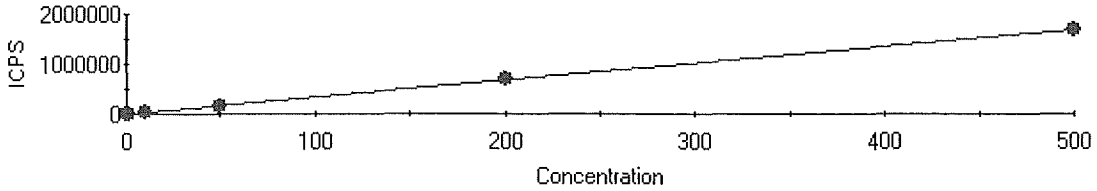
82Se FQ Block 1



Intercept CPS=4.408117 Intercept Conc=0.075401
Sensitivity=58.462371 Correlation Coeff=0.999988

Label	Defined	Measured	Error	Mean CPS	% Error
S0	0.000	0.000	0.000	4.41	0.00
S	5.000	4.978	0.022	295.42	0.45
S10	10.000	10.134	0.134	596.88	1.34
S50	50.000	50.536	0.536	2958.85	1.07
S200	200.000	202.101	2.101	11819.73	1.05
S500	500.000	499.103	0.897	29183.18	0.18

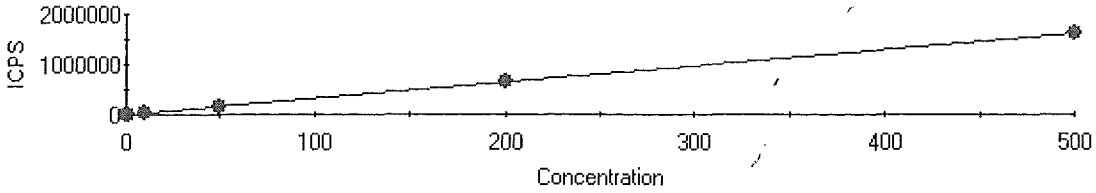
107Ag FQ Block 1



Intercept CPS=30.953178 Intercept Conc=0.009203
Sensitivity=3363.257045 Correlation Coeff=0.999996

Label	Defined	Measured	Error	Mean CPS	% Error
S0	0.000	-0.000	0.000	30.95	0.00
S	1.000	1.004	0.004	3408.70	0.43
S10	10.000	9.847	0.153	33148.27	1.53
S50	50.000	49.171	0.829	165405.32	1.66
S200	200.000	200.926	0.926	675796.17	0.46
S500	500.000	499.716	0.284	1680703.08	0.06

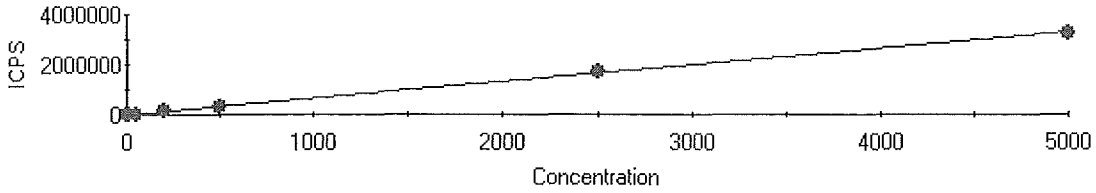
109Ag FQ Block 1



Intercept CPS=22.730860 Intercept Conc=0.007063
Sensitivity=3218.294084 Correlation Coeff=0.999994

Label	Defined	Measured	Error	Mean CPS	% Error
S0	0.000	0.000	0.000	22.73	0.00
S	1.000	0.986	0.014	3197.41	1.36
S10	10.000	9.850	0.150	31722.26	1.50
S50	50.000	49.324	0.676	158760.84	1.35
S200	200.000	201.316	1.316	647916.63	0.66
S500	500.000	499.544	0.456	1607703.16	0.09

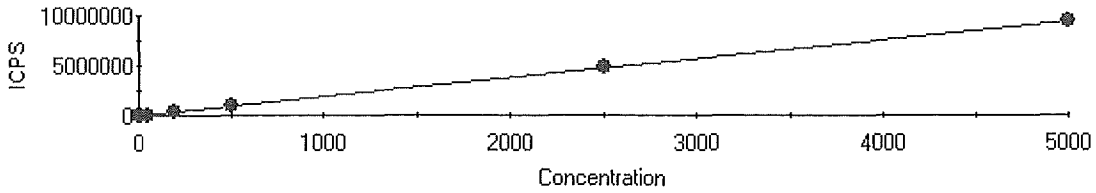
111Cd FQ Block 1



Intercept CPS=85.596218 Intercept Conc=0.130835
Sensitivity=654.230178 Correlation Coeff=0.999889

Label	Defined	Measured	Error	Mean CPS	% Error
S0	0.000	-0.000	0.000	85.60	0.00
S	1.000	0.960	0.040	713.98	3.95
S10	10.000	10.010	0.010	6634.75	0.10
S50	50.000	49.305	0.695	32342.71	1.39
S200	200.000	200.642	0.642	131351.66	0.32
S500	500.000	496.978	3.022	325223.69	0.60
S2500	2500.000	2564.835	64.835	1678078.28	2.59
S5000	5000.000	4967.866	32.134	3250213.30	0.64

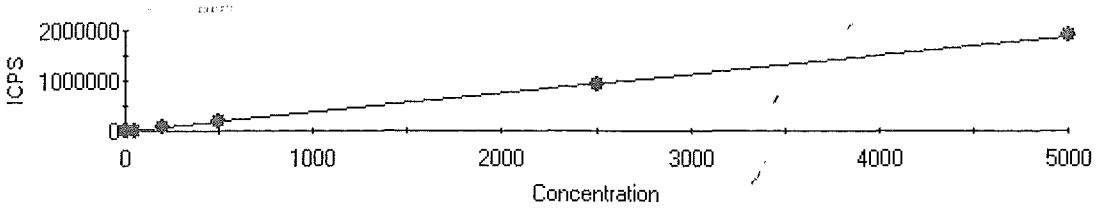
121Sb FQ Block 1



Intercept CPS=20.993606 Intercept Conc=0.011049
Sensitivity=1899.960778 Correlation Coeff=0.999990

Label	Defined	Measured	Error	Mean CPS	% Error
S0	0.000	0.000	0.000	20.99	0.00
S	2.000	1.949	0.051	3723.64	2.56
S10	10.000	9.389	0.611	17860.10	6.11
S50	50.000	47.311	2.689	89910.32	5.38
S200	200.000	192.594	7.406	365941.47	3.70
S500	500.000	483.021	16.979	917742.54	3.40
S2500	2500.000	2513.214	13.214	4775029.94	0.53
S5000	5000.000	4995.415	4.585	9491113.58	0.09

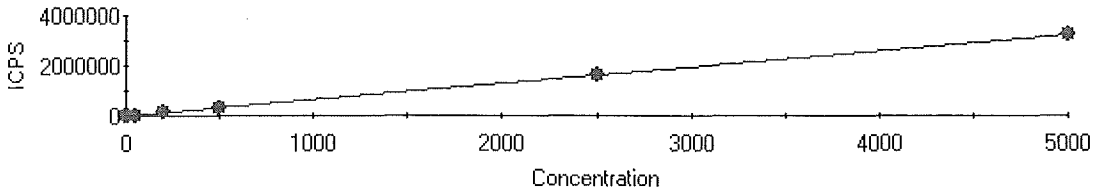
135Ba FQ Block 1



Intercept CPS=3.986709 Intercept Conc=0.010487
Sensitivity=380.162103 Correlation Coeff=0.999832

Label	Defined	Measured	Error	Mean CPS	% Error
S0	0.000	0.000	0.000	3.99	0.00
S	10.000	9.471	0.529	3604.36	5.29
S50	50.000	47.991	2.009	18248.22	4.02
S200	200.000	192.688	7.312	73256.51	3.66
S500	500.000	477.660	22.340	181592.07	4.47
S2500	2500.000	2422.041	77.959	920772.31	3.12
S5000	5000.000	5041.527	41.527	1916601.50	0.83

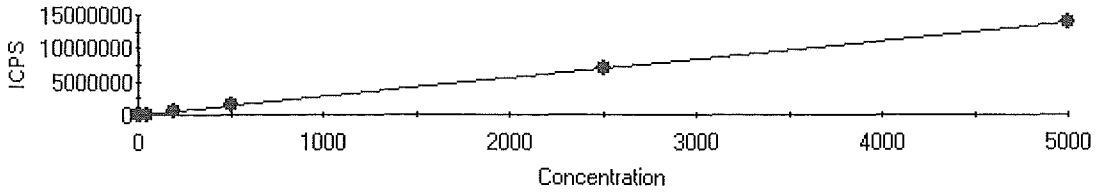
137Ba FQ Block 1



Intercept CPS=4.518684 Intercept Conc=0.006974
Sensitivity=647.936568 Correlation Coeff=0.999965

Label	Defined	Measured	Error	Mean CPS	% Error
S0	0.000	-0.000	0.000	4.52	0.00
S	10.000	9.827	0.173	6372.05	1.73
S50	50.000	49.622	0.378	32156.32	0.76
S200	200.000	199.676	0.324	129382.03	0.16
S500	500.000	491.259	8.741	318309.32	1.75
S2500	2500.000	2534.298	34.298	1642069.04	1.37
S5000	5000.000	4983.742	16.258	3229153.23	0.33

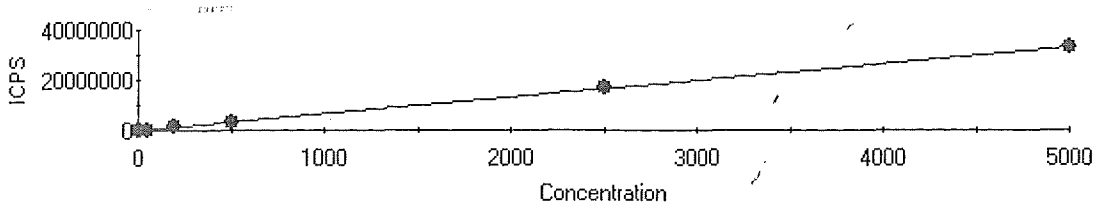
203Tl FQ Block 1



Intercept CPS=77.267782 Intercept Conc=0.028106
Sensitivity=2749.157778 Correlation Coeff=0.999983

Label	Defined	Measured	Error	Mean CPS	% Error
S0	0.000	0.000	0.000	77.27	0.00
S	1.000	0.944	0.056	2672.13	5.61
S10	10.000	9.520	0.480	26248.09	4.80
S50	50.000	47.827	2.173	131559.98	4.35
S200	200.000	194.938	5.062	535993.88	2.53
S500	500.000	490.945	9.055	1349763.83	1.81
S2500	2500.000	2475.363	24.637	6805239.79	0.99
S5000	5000.000	5013.449	13.449	13782840.38	0.27

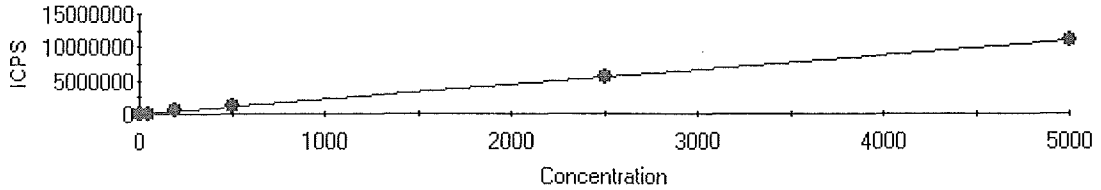
205Tl FQ Block 1



Intercept CPS=190.439056 Intercept Conc=0.028514
Sensitivity=6678.864525 Correlation Coeff=0.999996

Label	Defined	Measured	Error	Mean CPS	% Error
S0	0.000	-0.000	0.000	190.44	0.00
S	1.000	0.935	0.065	6437.98	6.46
S10	10.000	9.461	0.539	63380.78	5.39
S50	50.000	47.341	2.659	316376.33	5.32
S200	200.000	195.982	4.018	1309127.09	2.01
S500	500.000	499.456	0.544	3335990.53	0.11
S2500	2500.000	2487.426	12.574	16613374.25	0.50
S5000	5000.000	5006.530	6.530	33438123.34	0.13

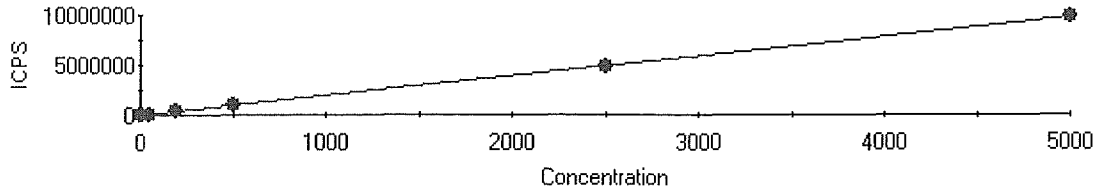
206Pb FQ Block 1



Intercept CPS=67.411071 Intercept Conc=0.030909
Sensitivity=2180.956317 Correlation Coeff=0.999994

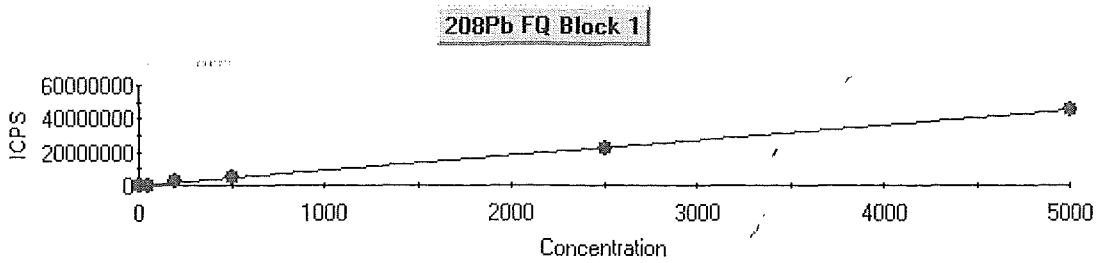
Label	Defined	Measured	Error	Mean CPS	% Error
S0	0.000	0.000	0.000	67.41	0.00
S	1.000	0.933	0.067	2101.68	6.73
S10	10.000	9.919	0.081	21699.32	0.81
S50	50.000	49.254	0.746	107488.83	1.49
S200	200.000	200.881	0.881	438180.87	0.44
S500	500.000	504.642	4.642	1100670.54	0.93
S2500	2500.000	2485.501	14.499	5420837.57	0.58
S5000	5000.000	5006.757	6.757	10919586.58	0.14

207Pb FQ Block 1



Intercept CPS=66.936690 Intercept Conc=0.034040
Sensitivity=1966.424472 Correlation Coeff=0.999979

Label	Defined	Measured	Error	Mean CPS	% Error
S0	0.000	-0.000	0.000	66.94	0.00
S	1.000	0.956	0.044	1946.96	4.39
S10	10.000	9.209	0.791	18176.39	7.91
S50	50.000	46.158	3.842	90833.66	7.68
S200	200.000	187.694	12.306	369152.85	6.15
S500	500.000	468.908	31.092	922138.73	6.22
S2500	2500.000	2486.396	13.604	4889377.74	0.54
S5000	5000.000	5010.443	10.443	9852725.16	0.21



Intercept CPS=291.740411 Intercept Conc=0.032452
Sensitivity=8990.019910 Correlation Coeff=0.999991

Label	Defined	Measured	Error	Mean CPS	% Error
S0	0.000	-0.000	0.000	291.74	0.00
S	1.000	0.929	0.071	8639.51	7.14
S10	10.000	9.477	0.523	85494.15	5.23
S50	50.000	47.242	2.758	425001.13	5.52
S200	200.000	193.444	6.556	1739360.17	3.28
S500	500.000	489.044	10.956	4396807.36	2.19
S2500	2500.000	2483.590	16.410	22327811.26	0.66
S5000	5000.000	5009.592	9.592	45036620.71	0.19

Dilution Corrected Concentrations

S0 06/29/2015 14:50:15

User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na	24Mg	25Mg	26Mg	27Al	39K
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	14:50:55	99.12%	0.0015	0.2223	-0.0015	-0.0717	-0.0198	0.0633	-0.6154
2	14:51:35	98.54%	-0.0005	0.1037	0.0238	0.0935	-0.0204	0.0239	-0.0366
3	14:52:14	99.53%	-0.0052	-0.0901	-0.0025	-0.0318	0.0914	0.0012	0.9050
4	14:52:54	101.15%	0.0028	-0.1203	-0.0048	0.1267	-0.0625	-0.0585	-0.3230
5	14:53:34	101.68%	0.0015	-0.1155	-0.0150	-0.1168	0.0114	-0.0299	0.0699
X		100.00%	-0.0000	-0.0000	-0.0000	0.0000	-0.0000	-0.0000	0.0000
%RSD		1.35	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Run	Time	44Ca	45Sc	47Ti	51V	52Cr	54Fe	55Mn	56Fe
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	14:50:55	-0.8191	98.80%	-0.0021	-0.0256	0.0192	0.6775	-0.0013	0.9432
2	14:51:35	1.3048	99.77%	0.0034	-0.0689	0.0367	1.6542	-0.0026	0.2810
3	14:52:14	1.7843	99.63%	0.0020	0.0469	-0.0296	-1.4696	-0.0015	-0.5347
4	14:52:54	-1.3068	101.09%	-0.0024	0.0664	-0.0211	-0.1588	-0.0034	-0.1731
5	14:53:34	-0.9632	100.71%	-0.0009	-0.0188	-0.0051	-0.7032	0.0088	-0.5164
X		0.0000	100.00%	-0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
%RSD		0.0000	0.91	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Run	Time	57Fe	59Co	60Ni	63Cu	65Cu	66Zn	75As	78Se
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	14:50:55	-0.7012	0.0007	0.0113	-0.0046	-0.0137	0.0501	0.0104	-0.0853
2	14:51:35	2.4066	-0.0009	0.0087	0.0183	-0.0207	0.0591	-0.0010	-0.1660
3	14:52:14	0.6285	-0.0015	-0.0081	-0.0122	-0.0000	-0.0433	-0.0209	-0.1871
4	14:52:54	-1.3429	0.0016	-0.0201	0.0027	-0.0055	-0.0413	-0.0067	0.2371
5	14:53:34	-0.9911	0.0001	0.0083	-0.0042	0.0399	-0.0245	0.0182	0.2013
X		-0.0000	0.0000	0.0000	0.0000	0.0000	-0.0000	-0.0000	0.0000
%RSD		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Run	Time	82Se	83Kr	89Y	94Mo	95Mo	96Mo	97Mo	98Mo
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	14:50:55	0.0236	-0.3688	99.73%	0.0000	0.0000	0.0000	0.0000	0.0000
2	14:51:35	-0.2055	0.0451	99.60%	0.0000	0.0000	0.0000	0.0000	0.0000
3	14:52:14	0.0517	-0.1497	99.98%	0.0000	0.0000	0.0000	0.0000	0.0000
4	14:52:54	0.0653	0.5419	100.09%	0.0000	0.0000	0.0000	0.0000	0.0000
5	14:53:34	0.0650	-0.0685	100.60%	0.0000	0.0000	0.0000	0.0000	0.0000
X		0.0000	0.0000	100.00%	0.0000	0.0000	0.0000	0.0000	0.0000
%RSD		0.0000	0.0000	0.39	0.0000	0.0000	0.0000	0.0000	0.0000

Run	Time	103Rh	107Ag	108Mo O	109Ag	111Cd	115In	118Sn	121Sb
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	14:50:55	99.90%	-0.0029	0.4019	0.0019	-0.0093	0.0000	0.0000	-0.0005
2	14:51:35	99.00%	-0.0032	-0.3666	-0.0027	0.0154	0.0000	0.0000	-0.0018
3	14:52:14	100.28%	-0.0014	0.1102	0.0007	-0.0075	0.0000	0.0000	0.0022
4	14:52:54	100.58%	0.0056	-0.1242	0.0010	0.0037	0.0000	0.0000	-0.0019
5	14:53:34	100.24%	0.0019	-0.0213	-0.0009	-0.0024	0.0000	0.0000	0.0020
X		100.00%	-0.0000	-0.0000	0.0000	-0.0000	0.0000	0.0000	0.0000
%RSD		0.61	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Run	Time	135Ba	137Ba	159Tb	203Tl	205Tl	206Pb	207Pb	208Pb
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	14:50:55	-0.0039	-0.0031	99.78%	-0.0062	-0.0075	-0.0125	-0.0008	-0.0076
2	14:51:35	-0.0038	0.0125	99.09%	-0.0007	-0.0022	0.0013	-0.0098	-0.0034
3	14:52:14	-0.0105	-0.0031	99.58%	0.0075	0.0033	-0.0056	0.0005	0.0005
4	14:52:54	0.0026	-0.0070	100.57%	0.0031	0.0073	0.0056	-0.0024	0.0005
5	14:53:34	0.0156	0.0007	100.99%	-0.0038	-0.0009	0.0111	0.0125	0.0100
X		0.0000	-0.0000	100.00%	0.0000	-0.0000	0.0000	-0.0000	-0.0000
%RSD		0.0000	0.0000	0.77	0.0000	0.0000	0.0000	0.0000	0.0000

Run	Time	209Bi	220Bkg
		ug/L	ug/L
1	14:50:55	99.57%	-0.5383
2	14:51:35	99.54%	-0.5383
3	14:52:14	99.51%	0.0057
4	14:52:54	100.40%	0.0009
5	14:53:34	100.98%	1.0700
X		100.00%	0.0000
%RSD		0.66	0.0000

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na	24Mg	25Mg	26Mg	27Al	39K
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	14:55:14	101.14%	0.9687	450.9800	475.1300	478.4600	495.9600	19.8990	538.6400
2	14:55:54	101.91%	1.0050	461.7100	482.3900	486.9200	517.4100	20.0520	550.7000
3	14:56:34	102.92%	1.0327	T476.9500	485.8200	501.7900	513.4500	20.0630	555.0900
4	14:57:13	103.27%	1.0055	T474.7800	477.5800	480.2900	507.1700	19.6750	549.8900
5	14:57:53	103.38%	0.9985	442.3900	464.5800	471.9000	488.4300	19.1110	512.6100
X		102.52%	1.0021	T461.3600	477.1000	483.8700	504.4800	19.7600	541.3800
%RSD		0.94	2.2793	T3.2342	1.7055	2.3464	2.3974	2.0007	3.1752

Run	Time	44Ca	45Sc	47Ti	51V	52Cr	54Fe	55Mn	56Fe
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	14:55:14	454.7800	99.64%	-0.0022	5.1752	1.9183	193.9200	1.0044	201.4100
2	14:55:54	462.7600	101.48%	0.0059	5.2372	1.9632	192.6100	0.9642	204.5400
3	14:56:34	477.9000	102.47%	0.0016	5.2565	1.8371	197.8600	1.0197	205.3200
4	14:57:13	475.1000	102.19%	0.0030	5.0822	1.8605	192.9300	0.9504	201.9800
5	14:57:53	447.1800	103.00%	0.0029	4.9023	1.8686	192.4200	0.9534	196.2700
X		463.5400	101.76%	0.0022	5.1307	1.8895	193.9500	0.9784	201.9000
%RSD		2.8227	1.28	131.4400	2.8188	2.6828	1.1666	3.2286	1.7607

Run	Time	57Fe	59Co	60Ni	63Cu	65Cu	66Zn	75As	78Se
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	14:55:14	204.9400	0.9314	0.9678	1.8778	1.9195	2.0157	0.9918	4.9312
2	14:55:54	203.7100	0.9633	1.0363	2.0303	1.9838	2.0521	0.7879	5.1027
3	14:56:34	196.3300	0.9408	1.1124	1.9683	2.0731	2.1202	0.9865	5.0447
4	14:57:13	205.4500	0.9842	0.9484	1.9675	2.1093	2.2172	0.9594	4.4226
5	14:57:53	202.6400	0.9143	1.0343	1.8749	1.9089	2.1278	0.8469	4.6035
X		202.6100	0.9468	1.0198	1.9438	1.9989	2.1066	0.9145	4.8209
%RSD		1.8164	2.8926	6.3667	3.4253	4.4973	3.6845	10.0470	6.1140

Run	Time	82Se	83Kr	89Y	94Mo	95Mo	96Mo	97Mo	98Mo
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	14:55:14	4.9608	0.4615	99.60%	0.0000	0.0000	0.0000	0.0000	0.0000
2	14:55:54	4.5657	-0.2323	100.21%	0.0000	0.0000	0.0000	0.0000	0.0000
3	14:56:34	5.3072	0.4471	100.57%	0.0000	0.0000	0.0000	0.0000	0.0000
4	14:57:13	5.0018	0.7109	101.16%	0.0000	0.0000	0.0000	0.0000	0.0000
5	14:57:53	5.0531	0.0648	101.13%	0.0000	0.0000	0.0000	0.0000	0.0000
X		4.9777	0.2904	100.53%	0.0000	0.0000	0.0000	0.0000	0.0000
%RSD		5.3616	128.2300	0.66	0.0000	0.0000	0.0000	0.0000	0.0000

Run	Time	103Rh	107Ag	108Mo O	109Ag	111Cd	115In	118Sn	121Sb
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	14:55:14	100.23%	0.9809	0.3967	0.9479	0.8751	0.0000	0.0000	1.9226
2	14:55:54	100.68%	1.0257	-0.4388	1.0103	0.9753	0.0000	0.0000	1.9752
3	14:56:34	101.44%	1.0484	0.0130	1.0068	1.0242	0.0000	0.0000	1.9921
4	14:57:13	102.25%	1.0166	0.5360	1.0283	1.0296	0.0000	0.0000	1.9073
5	14:57:53	101.50%	0.9499	-0.0474	0.9389	0.8983	0.0000	0.0000	1.9468
X		101.22%	1.0043	0.0919	0.9865	0.9605	0.0000	0.0000	1.9488
%RSD		0.77	3.8734	420.6500	4.0814	7.4022	0.0000	0.0000	1.8130

Run	Time	135Ba	137Ba	159Tb	203Tl	205Tl	206Pb	207Pb	208Pb
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	14:55:14	9.1078	9.4611	99.92%	0.9382	0.8948	0.9679	0.9768	0.9368
2	14:55:54	9.2058	10.2000	99.72%	0.9423	0.9557	0.9396	0.9557	0.9375
3	14:56:34	9.9989	9.6736	99.54%	0.9618	0.9625	0.9525	0.9545	0.9390
4	14:57:13	9.8030	10.0070	100.44%	0.9665	0.9806	0.9207	0.9808	0.9515
5	14:57:53	9.2376	9.7950	100.50%	0.9106	0.8835	0.8829	0.9126	0.8781
X		9.4706	9.8274	100.02%	0.9439	0.9354	0.9327	0.9561	0.9286
%RSD		4.2421	2.9237	0.43	2.3558	4.6357	3.5161	2.8342	3.1087

Run	Time	209Bi	220Bkg
		ug/L	ug/L
1	14:55:14	99.48%	0.0059
2	14:55:54	99.83%	-0.5383
3	14:56:34	99.55%	0.0055
4	14:57:13	100.09%	-0.5383
5	14:57:53	100.75%	-0.5383
X		99.94%	-0.3207
%RSD		0.51	92.9020

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na	24Mg	25Mg	26Mg	27Al	39K
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	14:59:34	101.36%	10.0680	18.3760	10.5730	10.4870	12.1840	11.2130	14.4890
2	15:00:13	101.57%	10.3220	19.1930	10.9800	11.4240	11.7730	11.1960	14.2690
3	15:00:53	103.33%	10.2670	19.1770	10.5080	12.2630	10.2960	10.9820	13.2170
4	15:01:32	102.31%	10.4990	19.1170	10.5280	9.8687	11.0700	11.1900	14.2770
5	15:02:12	103.68%	10.1380	18.9100	9.9873	9.7135	10.4440	10.7980	12.1510
X		102.45%	10.2590	18.9550	10.5150	10.7510	11.1530	11.0760	13.6810
%RSD		1.01	1.6360	1.8083	3.3570	10.0440	7.3544	1.6435	7.2283

Run	Time	44Ca	45Sc	47Ti	51V	52Cr	54Fe	55Mn	56Fe
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	14:59:34	13.3260	100.56%	0.0060	9.3702	9.5309	12.0430	10.0110	9.9180
2	15:00:13	14.1980	101.01%	-0.0010	9.6870	9.5949	12.2550	9.9713	9.4756
3	15:00:53	11.5900	101.38%	-0.0010	9.6833	9.7502	14.4090	10.0750	9.9668
4	15:01:32	14.9430	102.23%	-0.0025	9.6558	9.5471	12.7360	10.0210	8.5039
5	15:02:12	10.9920	102.37%	0.0043	9.7015	9.7553	12.0620	9.9447	7.9104
X		13.0100	101.51%	0.0012	9.6195	9.6357	12.7010	10.0050	9.1550
%RSD		12.9390	0.77	317.0500	1.4593	1.1358	7.8309	0.4987	9.9465

Run	Time	57Fe	59Co	60Ni	63Cu	65Cu	66Zn	75As	78Se
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	14:59:34	11.5680	9.6941	10.0740	9.7638	9.7606	12.4230	9.4709	9.7283
2	15:00:13	9.9333	9.6841	10.0200	9.7934	9.6898	12.3130	9.3291	10.2660
3	15:00:53	11.1010	9.6268	10.1790	9.9220	10.1570	12.3230	10.0430	9.6975
4	15:01:32	10.4640	9.7203	10.3510	9.7785	10.2550	12.1990	9.8017	10.1800
5	15:02:12	11.1630	9.5445	10.0020	9.6409	10.0580	12.1330	9.8676	9.8458
X		10.8460	9.6539	10.1250	9.7797	9.9839	12.2780	9.7025	9.9434
%RSD		5.9486	0.7261	1.4205	1.0217	2.4783	0.9240	3.0323	2.6418

Run	Time	82Se	83Kr	89Y	94Mo	95Mo	96Mo	97Mo	98Mo
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	14:59:34	9.3188	-0.3449	100.23%	0.0000	0.0000	0.0000	0.0000	0.0000
2	15:00:13	9.8143	1.1568	100.68%	0.0000	0.0000	0.0000	0.0000	0.0000
3	15:00:53	10.6670	-0.4831	100.57%	0.0000	0.0000	0.0000	0.0000	0.0000
4	15:01:32	10.8640	-0.7948	100.89%	0.0000	0.0000	0.0000	0.0000	0.0000
5	15:02:12	10.0060	-0.1662	101.18%	0.0000	0.0000	0.0000	0.0000	0.0000
X		10.1340	-0.1264	100.71%	0.0000	0.0000	0.0000	0.0000	0.0000
%RSD		6.2433	595.9200	0.35	0.0000	0.0000	0.0000	0.0000	0.0000

Run	Time	103Rh	107Ag	108Mo O	109Ag	111Cd	115In	118Sn	121Sb
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	14:59:34	101.09%	9.5912	-0.3588	9.5530	9.7792	0.0000	0.0000	9.2114
2	15:00:13	101.01%	9.7664	0.4031	9.9827	10.0800	0.0000	0.0000	9.3276
3	15:00:53	101.43%	10.0500	0.7899	10.0400	10.0750	0.0000	0.0000	9.5351
4	15:01:32	101.76%	10.0680	0.0962	10.0060	10.0660	0.0000	0.0000	9.4343
5	15:02:12	101.40%	9.7579	-0.4639	9.6669	10.0530	0.0000	0.0000	9.4375
X		101.34%	9.8468	0.0933	9.8498	10.0100	0.0000	0.0000	9.3892
%RSD		0.30	2.0947	561.0000	2.2697	1.2958	0.0000	0.0000	1.3158

Run	Time	135Ba	137Ba	159Tb	203Tl	205Tl	206Pb	207Pb	208Pb
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	14:59:34	9.5008	9.7728	100.03%	9.4175	9.3273	9.7959	9.0599	9.3655
2	15:00:13	9.0440	9.8474	100.32%	9.5555	9.4493	10.0290	9.2404	9.5470
3	15:00:53	9.6059	10.1700	100.84%	9.6453	9.7147	10.0600	9.3579	9.6439
4	15:01:32	9.5529	9.9290	99.20%	9.6171	9.5120	9.9208	9.2873	9.4962
5	15:02:12	9.5843	9.7051	100.07%	9.3625	9.3029	9.7866	9.1011	9.3347
X		9.4576	9.8849	100.09%	9.5196	9.4612	9.9185	9.2093	9.4774
%RSD		2.4800	1.8222	0.59	1.3046	1.7528	1.2828	1.3645	1.3534

Run	Time	209Bi	220Bkg
		ug/L	ug/L
1	14:59:34	99.96%	0.0033
2	15:00:13	100.46%	-0.5383
3	15:00:53	100.55%	0.0001
4	15:01:32	100.29%	0.0015
5	15:02:12	100.16%	-0.5383
X		100.28%	-0.2144
%RSD		0.23	137.9500

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na	24Mg	25Mg	26Mg	27Al	39K
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	15:03:53	102.62%	51.9390	46.5680	49.1810	49.5250	52.0010	53.4660	51.9140
2	15:04:33	102.48%	51.6600	47.0460	48.9220	53.3720	52.4410	53.1970	53.1610
3	15:05:12	102.44%	52.2620	47.8360	50.4030	48.2180	53.1480	54.4300	50.8270
4	15:05:52	103.00%	50.6940	45.6570	47.7670	48.8150	51.5010	51.6470	50.3630
5	15:06:32	102.85%	48.1090	43.5690	48.1530	44.6300	49.6610	50.2090	46.1200
x		102.68%	50.9330	46.1350	48.8850	48.9120	51.7510	52.5900	50.4770
%RSD		0.23	3.3058	3.5494	2.0907	6.3921	2.5422	3.1643	5.2777

Run	Time	44Ca	45Sc	47Ti	51V	52Cr	54Fe	55Mn	56Fe
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	15:03:53	50.9280	100.02%	0.0062	49.2150	49.0750	66.7960	50.3760	49.1550
2	15:04:33	48.6970	100.16%	0.0033	49.2610	49.0990	65.8990	49.8040	48.4550
3	15:05:12	47.2990	100.59%	0.0005	49.5540	49.7790	70.3970	50.5400	49.2100
4	15:05:52	45.7620	101.40%	-0.0010	47.4640	47.6480	68.9200	49.5990	46.8780
5	15:06:32	43.1840	100.14%	-0.0009	45.0950	45.9870	66.9090	47.6420	45.3520
x		47.1740	100.46%	0.0016	48.1180	48.3180	67.7840	49.5920	47.8100
%RSD		6.2107	0.56	189.3400	3.9068	3.1393	2.7017	2.3346	3.4833

Run	Time	57Fe	59Co	60Ni	63Cu	65Cu	66Zn	75As	78Se
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	15:03:53	43.1510	48.7870	50.6260	50.1100	50.3170	50.6750	49.2740	51.4560
2	15:04:33	50.8930	49.7010	50.2840	49.6390	49.5700	51.9910	49.9820	51.8050
3	15:05:12	52.4560	49.3110	51.3260	50.2180	51.1690	51.7920	49.2850	50.8050
4	15:05:52	48.2410	48.2690	49.6170	49.2340	48.9490	51.2620	48.2160	50.7160
5	15:06:32	48.6500	45.8340	47.3430	46.7730	47.3200	47.7550	46.3470	48.1310
x		48.6780	48.3800	49.8390	49.1950	49.4650	50.6950	48.6210	50.5830
%RSD		7.2576	3.1471	3.0609	2.8653	2.9484	3.3948	2.9183	2.8535

Run	Time	82Se	83Kr	89Y	94Mo	95Mo	96Mo	97Mo	98Mo
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	15:03:53	51.6700	0.7766	98.12%	0.0000	0.0000	0.0000	0.0000	0.0000
2	15:04:33	53.1410	-0.6243	98.55%	0.0000	0.0000	0.0000	0.0000	0.0000
3	15:05:12	50.4460	0.3236	98.66%	0.0000	0.0000	0.0000	0.0000	0.0000
4	15:05:52	49.6720	-0.1090	98.84%	0.0000	0.0000	0.0000	0.0000	0.0000
5	15:06:32	47.7510	-0.8306	99.20%	0.0000	0.0000	0.0000	0.0000	0.0000
x		50.5360	-0.0928	98.68%	0.0000	0.0000	0.0000	0.0000	0.0000
%RSD		4.0285	714.4100	0.40	0.0000	0.0000	0.0000	0.0000	0.0000

Run	Time	103Rh	107Ag	108Mo O	109Ag	111Cd	115In	118Sn	121Sb
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	15:03:53	99.41%	49.3640	-0.5551	49.5420	49.8140	0.0000	0.0000	47.6570
2	15:04:33	99.67%	49.9240	0.2218	50.1290	50.3140	0.0000	0.0000	48.4600
3	15:05:12	99.72%	50.1260	-0.4748	50.4580	51.1840	0.0000	0.0000	48.0600
4	15:05:52	100.27%	50.3440	-0.3215	50.2070	48.4140	0.0000	0.0000	46.8940
5	15:06:32	99.94%	46.0970	-0.0641	46.2820	46.8010	0.0000	0.0000	45.4850
x		99.80%	49.1710	-0.2388	49.3240	49.3050	0.0000	0.0000	47.3110
%RSD		0.32	3.5720	133.3100	3.5135	3.4942	0.0000	0.0000	2.4807

Run	Time	135Ba	137Ba	159Tb	203Tl	205Tl	206Pb	207Pb	208Pb
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	15:03:53	47.6930	49.8280	98.01%	48.0130	47.4570	49.6490	46.6460	47.8720
2	15:04:33	49.3610	50.3330	98.26%	49.1600	48.3900	49.6240	46.6870	47.9780
3	15:05:12	49.0460	50.3640	98.21%	48.4200	48.2230	50.3230	46.6790	47.9370
4	15:05:52	48.2240	50.5600	98.71%	48.5100	47.8690	49.4820	46.9610	47.4250
5	15:06:32	45.6290	47.0240	99.41%	45.0290	44.7680	47.1930	43.8190	45.0000
x		47.9910	49.6220	98.52%	47.8270	47.3410	49.2540	46.1580	47.2420
%RSD		3.0758	2.9769	0.57	3.3807	3.1310	2.4312	2.8464	2.6948

Run	Time	209Bi	220Bkg
		ug/L	ug/L
1	15:03:53	98.51%	0.0113
2	15:04:33	97.83%	-0.5383
3	15:05:12	98.95%	0.0088
4	15:05:52	99.32%	-0.5383
5	15:06:32	99.52%	0.5496
x		98.83%	-0.1014
%RSD		0.69	449.4100

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na	24Mg	25Mg	26Mg	27Al	39K
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	15:08:13	101.45%	205.7200	185.2900	191.6300	193.3800	203.7400	201.7700	213.1100
2	15:08:52	100.90%	207.2300	188.4700	192.5200	198.1200	209.6100	207.2000	214.4800
3	15:09:32	100.78%	209.9000	191.7900	197.3700	204.2000	207.3900	208.5800	217.2000
4	15:10:12	100.16%	208.1600	188.9100	194.6600	202.1900	200.8000	205.3400	216.1700
5	15:10:52	100.80%	202.6400	181.9800	190.1100	191.1700	198.2500	200.3000	204.8700
x		100.82%	206.7300	187.2900	193.2600	197.8100	203.9600	204.6400	213.1700
%RSD		0.45	1.3271	2.0059	1.4629	2.8120	2.2778	1.7222	2.2968

Run	Time	44Ca	45Sc	47Ti	51V	52Cr	54Fe	55Mn	56Fe
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	15:08:13	195.9900	98.31%	0.0079	197.9500	197.6400	287.3900	202.9700	202.8400
2	15:08:52	195.1900	98.37%	-0.0020	200.1300	198.9000	278.1500	205.0400	202.4500
3	15:09:32	195.3400	96.79%	0.0097	199.7700	201.2700	279.9600	206.4300	204.9000
4	15:10:12	191.1900	97.70%	0.0152	196.0500	197.0100	282.3200	203.8900	201.8900
5	15:10:52	194.3100	97.24%	0.0053	194.7500	194.4400	271.0500	199.9700	199.3900
x		194.4000	97.68%	0.0072	197.7300	197.8500	279.7700	203.6600	202.2900
%RSD		0.9747	0.70	87.7790	1.1759	1.2680	2.1391	1.1962	0.9783

Run	Time	57Fe	59Co	60Ni	63Cu	65Cu	66Zn	75As	78Se
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	15:08:13	202.0500	198.1800	201.7000	198.1300	198.4200	205.4500	192.5400	199.7000
2	15:08:52	199.9800	199.1800	200.7400	201.8600	200.3800	209.6200	194.6500	204.6600
3	15:09:32	210.7300	204.6000	205.8300	204.8600	203.2500	212.1800	198.4100	207.0900
4	15:10:12	201.8000	200.0800	201.9300	203.5100	200.4600	206.5300	196.0700	204.0700
5	15:10:52	197.0700	195.7900	199.8100	199.6300	197.6200	203.2700	193.3900	200.4100
x		202.3300	199.5700	202.0000	201.6000	200.0200	207.4100	195.0100	203.1900
%RSD		2.5219	1.6234	1.1373	1.3642	1.0919	1.6945	1.1890	1.5183

Run	Time	82Se	83Kr	89Y	94Mo	95Mo	96Mo	97Mo	98Mo
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	15:08:13	201.0800	-0.1646	97.96%	0.0000	0.0000	0.0000	0.0000	0.0000
2	15:08:52	202.2300	-0.5434	96.97%	0.0000	0.0000	0.0000	0.0000	0.0000
3	15:09:32	203.1800	0.0173	95.72%	0.0000	0.0000	0.0000	0.0000	0.0000
4	15:10:12	205.7800	-0.5740	96.39%	0.0000	0.0000	0.0000	0.0000	0.0000
5	15:10:52	198.2300	0.0610	96.00%	0.0000	0.0000	0.0000	0.0000	0.0000
x		202.1000	-0.2407	96.61%	0.0000	0.0000	0.0000	0.0000	0.0000
%RSD		1.3714	125.6800	0.92	0.0000	0.0000	0.0000	0.0000	0.0000

Run	Time	103Rh	107Ag	108Mo O	109Ag	111Cd	115In	118Sn	121Sb
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	15:08:13	98.04%	197.9100	-1.8643	197.6400	199.7000	0.0000	0.0000	190.7600
2	15:08:52	97.74%	201.8100	1.8889	202.5600	204.3100	0.0000	0.0000	195.7200
3	15:09:32	97.06%	204.9500	0.6929	205.0500	203.4500	0.0000	0.0000	193.7900
4	15:10:12	96.69%	207.5600	-3.9328	209.4100	202.5200	0.0000	0.0000	193.2100
5	15:10:52	98.13%	192.4000	-0.7542	191.9300	193.2200	0.0000	0.0000	189.4800
x		97.53%	200.9300	-0.7939	201.3200	200.6400	0.0000	0.0000	192.5900
%RSD		0.65	2.9739	284.5200	3.3565	2.2397	0.0000	0.0000	1.2894

Run	Time	135Ba	137Ba	159Tb	203Tl	205Tl	206Pb	207Pb	208Pb
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	15:08:13	190.6500	199.3800	96.92%	193.4000	193.4800	199.6300	186.0600	192.5500
2	15:08:52	194.7500	200.8600	95.62%	195.8000	197.1400	200.4700	188.1600	193.7700
3	15:09:32	196.8500	204.0900	96.03%	198.6900	200.2300	205.9800	190.6700	197.1000
4	15:10:12	194.4500	200.2000	96.60%	197.4800	199.5800	203.7700	190.1400	195.3500
5	15:10:52	186.7400	193.8500	96.93%	189.3300	189.4800	194.5500	183.4400	188.4500
x		192.6900	199.6800	96.42%	194.9400	195.9800	200.8800	187.6900	193.4400
%RSD		2.0794	1.8599	0.60	1.9036	2.2951	2.1714	1.5944	1.6920

Run	Time	209Bi	220Bkg
		ug/L	ug/L
1	15:08:13	97.81%	-0.5383
2	15:08:52	98.02%	-0.5383
3	15:09:32	96.73%	1.1407
4	15:10:12	97.11%	-0.5383
5	15:10:52	97.23%	0.0185
x		97.38%	-0.0912
%RSD		0.54	800.2600

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na	24Mg	25Mg	26Mg	27Al	39K
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	15:12:33	99.02%	513.3600	460.1400	485.7400	496.5700	514.3600	T 510.1500	532.1900
2	15:13:12	99.75%	511.1400	T 473.2800	484.4700	497.8800	507.9000	516.9400	533.0900
3	15:13:52	99.21%	517.8200	467.3900	484.4200	497.5500	500.7800	T 508.6900	527.9000
4	15:14:32	97.90%	511.5400	468.5600	482.3000	488.9300	490.1800	510.0600	528.2600
5	15:15:12	98.95%	488.9200	437.8300	462.3600	466.7500	484.9200	493.6100	491.7900
X		98.97%	508.5600	T 461.4400	479.8600	489.5300	499.6300	T 507.8900	522.6400
%RSD		0.68	2.2203	T 3.0363	2.0545	2.7077	2.4354	T 1.6945	3.3296

Run	Time	44Ca	45Sc	47Ti	51V	52Cr	54Fe	55Mn	56Fe
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	15:12:33	480.2900	96.23%	-0.0033	T 514.0600	511.7400	714.8000	T 509.9900	524.0900
2	15:13:12	485.6900	96.63%	-0.0004	T 508.2000	508.3800	708.1900	T 507.3000	518.6000
3	15:13:52	487.6900	96.17%	-0.0047	T 507.9200	508.8900	717.9300	T 509.7300	523.2300
4	15:14:32	476.7500	95.66%	0.0071	T 496.4100	498.4000	694.1700	T 497.6600	508.5800
5	15:15:12	453.6600	95.69%	0.0041	T 482.2600	482.1900	673.2800	T 479.2000	491.2100
X		476.8200	96.07%	0.0006	T 501.7700	501.9200	701.6700	T 500.7800	513.1400
%RSD		2.8624	0.42	873.3900	T 2.5200	2.4167	2.6098	T 2.6093	2.6740

Run	Time	57Fe	59Co	60Ni	63Cu	65Cu	66Zn	75As	78Se
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	15:12:33	512.8100	T 501.7300	506.5400	507.5200	509.3700	520.3900	489.9900	M 505.9800
2	15:13:12	522.3600	T 504.9100	509.2300	506.9400	503.0100	522.7300	492.9700	M 503.4300
3	15:13:52	511.6000	T 502.6900	509.3400	507.4100	502.2300	520.2400	488.2900	M 507.9000
4	15:14:32	495.8300	T 500.2600	502.2200	502.4100	499.6800	513.9000	483.8100	M 502.2800
5	15:15:12	479.4600	T 481.3200	479.2600	481.6400	475.5100	487.1500	463.7800	473.7500
X		504.4100	T 498.1800	501.3200	501.1800	497.9600	512.8800	483.7700	M 498.6700
%RSD		3.3483	T 1.9226	2.5260	2.2206	2.6197	2.8765	2.4094	M 2.8280

Run	Time	82Se	83Kr	89Y	94Mo	95Mo	96Mo	97Mo	98Mo
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	15:12:33	M 505.1500	-0.4620	95.50%	0.0000	0.0000	0.0000	0.0000	0.0000
2	15:13:12	M 505.6500	0.6087	95.08%	0.0000	0.0000	0.0000	0.0000	0.0000
3	15:13:52	M 508.4200	-0.0716	95.12%	0.0000	0.0000	0.0000	0.0000	0.0000
4	15:14:32	M 502.8900	-0.0465	93.45%	0.0000	0.0000	0.0000	0.0000	0.0000
5	15:15:12	473.4000	0.3044	93.95%	0.0000	0.0000	0.0000	0.0000	0.0000
X		M 499.1000	0.0666	94.62%	0.0000	0.0000	0.0000	0.0000	0.0000
%RSD		M 2.9054	610.6100	0.92	0.0000	0.0000	0.0000	0.0000	0.0000

Run	Time	103Rh	107Ag	108Mo O	109Ag	111Cd	115In	118Sn	121Sb
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	15:12:33	97.10%	M 502.0500	2.0302	M 501.6600	501.3700	0.0000	0.0000	486.9000
2	15:13:12	96.48%	M 507.6400	1.4515	M 508.5800	506.6000	0.0000	0.0000	487.7000
3	15:13:52	96.46%	M 509.5200	-3.0009	M 510.0300	506.2600	0.0000	0.0000	494.6400
4	15:14:32	95.63%	M 513.5800	-5.3812	M 512.9600	496.9900	0.0000	0.0000	480.2500
5	15:15:12	95.91%	465.7900	2.4475	464.5000	473.6700	0.0000	0.0000	465.6200
X		96.31%	M 499.7200	-0.4906	M 499.5400	496.9800	0.0000	0.0000	483.0200
%RSD		0.59	M 3.8849	713.2500	M 4.0089	2.7392	0.0000	0.0000	2.2737

Run	Time	135Ba	137Ba	159Tb	203Tl	205Tl	206Pb	207Pb	208Pb
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	15:12:33	484.4500	496.6400	96.53%	495.6300	511.1700	511.0200	470.7800	492.8600
2	15:13:12	484.7200	499.6900	96.66%	497.3100	513.8200	511.8200	478.9500	496.7300
3	15:13:52	485.7600	500.5200	96.36%	504.2400	T 503.2100	515.8500	479.4400	500.4700
4	15:14:32	483.3700	490.4200	95.74%	496.0700	T 493.0500	501.0500	465.6300	487.5200
5	15:15:12	450.0100	469.0400	95.10%	461.4800	476.0300	483.4700	449.7400	467.6500
X		477.6600	491.2600	96.08%	490.9500	T 499.4600	504.6400	468.9100	489.0400
%RSD		3.2414	2.6545	0.68	3.4292	T 3.0810	2.5818	2.5970	2.6350

Run	Time	209Bi	220Bkg
		ug/L	ug/L
1	15:12:33	97.73%	0.0157
2	15:13:12	98.12%	2.2203
3	15:13:52	97.48%	0.5724
4	15:14:32	97.72%	1.6776
5	15:15:12	96.76%	0.0212
X		97.56%	0.9014
%RSD		0.52	111.0700

S2500 06/29/2015 15:16:14

User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na	24Mg	25Mg	26Mg	27Al	39K
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	15:16:53	95.71%	↹2544.0000	↹2372.0000	↹2432.7000	2424.9000	2497.2000	↹2521.0000	↹2565.3000
2	15:17:33	95.40%	↹2546.5000	↹2377.1000	↹2456.1000	2418.8000	2496.0000	↹2525.5000	↹2558.5000
3	15:18:13	95.75%	↹2560.9000	↹2409.2000	↹2480.1000	2442.2000	2500.0000	↹2574.2000	↹2608.3000
4	15:18:53	94.61%	↹2504.5000	↹2387.5000	↹2430.2000	2386.3000	2467.2000	↹2475.1000	↹2568.7000
5	15:19:32	94.17%	↹2484.6000	↹2327.2000	↹2359.2000	2398.0000	2433.1000	↹2485.5000	↹2457.3000
X		95.13%	↹2528.1000	↹2374.6000	↹2431.7000	2414.0000	2478.7000	↹2516.3000	↹2551.6000
%RSD		0.74	↹1.2691	↹1.2674	↹1.8631	0.9170	1.1589	↹1.5516	↹2.2037

Run	Time	44Ca	45Sc	47Ti	51V	52Cr	54Fe	55Mn	56Fe
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	15:16:53	2395.8000	91.16%	0.0173	↹2530.4000	↹2523.0000	3531.8000	↹2524.6000	↹2592.6000
2	15:17:33	2393.7000	90.98%	0.0081	↹2542.4000	↹2526.7000	3568.8000	↹2540.4000	↹2602.8000
3	15:18:13	2466.7000	89.97%	0.0037	↹2601.9000	↹2564.3000	3623.5000	↹2582.7000	↹2646.1000
4	15:18:53	2362.6000	90.43%	0.1057	↹2498.3000	↹2458.9000	3491.7000	↹2487.1000	↹2555.8000
5	15:19:32	2312.3000	89.67%	0.0037	↹2454.3000	↹2451.5000	3452.3000	↹2458.0000	↹2537.3000
X		2386.2000	90.44%	0.0277	↹2525.5000	↹2504.9000	3533.6000	↹2518.6000	↹2586.9000
%RSD		2.3570	0.70	158.6600	↹2.1643	↹1.9250	1.8824	↹1.9131	↹1.6419

Run	Time	57Fe	59Co	60Ni	63Cu	65Cu	66Zn	75As	78Se
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	15:16:53	2514.7000	↹2527.1000	↹2508.5000	↹2523.5000	↹2526.3000	2588.5000	2507.1000	-0.4605
2	15:17:33	2561.1000	↹2539.6000	↹2535.8000	↹2550.6000	↹2524.4000	2617.4000	2521.0000	-0.3456
3	15:18:13	2547.0000	↹2590.3000	↹2588.3000	↹2580.2000	↹2557.9000	2645.4000	2533.4000	-0.2300
4	15:18:53	2474.8000	↹2512.8000	↹2492.9000	↹2510.1000	↹2516.7000	2553.4000	2460.8000	-0.5331
5	15:19:32	2440.4000	↹2448.3000	↹2442.7000	↹2459.2000	↹2451.0000	2524.0000	2421.9000	-0.6634
X		2507.6000	↹2523.6000	↹2513.6000	↹2524.7000	↹2515.2000	2585.8000	2488.9000	-0.4465
%RSD		1.9998	↹2.0320	↹2.1376	↹1.7999	↹1.5597	1.8776	1.8652	37.4340

Run	Time	82Se	83Kr	89Y	94Mo	95Mo	96Mo	97Mo	98Mo
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	15:16:53	0.1457	0.6011	89.39%	0.0000	0.0000	0.0000	0.0000	0.0000
2	15:17:33	0.4554	0.4911	87.91%	0.0000	0.0000	0.0000	0.0000	0.0000
3	15:18:13	0.6674	-0.5664	87.80%	0.0000	0.0000	0.0000	0.0000	0.0000
4	15:18:53	-0.0286	0.5364	88.35%	0.0000	0.0000	0.0000	0.0000	0.0000
5	15:19:32	0.5848	0.3584	88.09%	0.0000	0.0000	0.0000	0.0000	0.0000
X		0.3649	0.2841	88.31%	0.0000	0.0000	0.0000	0.0000	0.0000
%RSD		81.1710	170.2500	0.72	0.0000	0.0000	0.0000	0.0000	0.0000

Run	Time	103Rh	107Ag	108Mo O	109Ag	111Cd	115In	118Sn	121Sb
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	15:16:53	89.30%	0.6504	-1.1611	0.6375	2601.8000	0.0000	0.0000	↹2541.1000
2	15:17:33	89.98%	0.6851	0.9915	0.7227	2593.7000	0.0000	0.0000	↹2550.5000
3	15:18:13	90.14%	1.0564	-0.6158	1.0759	2591.0000	0.0000	0.0000	↹2556.6000
4	15:18:53	89.72%	1.2757	-2.2151	1.2846	2531.2000	0.0000	0.0000	↹2487.3000
5	15:19:32	88.66%	0.4414	0.5823	0.4358	2506.5000	0.0000	0.0000	↹2430.6000
X		89.56%	0.8218	-0.4836	0.8313	2564.8000	0.0000	0.0000	↹2513.2000
%RSD		0.66	40.9880	269.3300	41.2820	1.6790	0.0000	0.0000	↹2.1375

Run	Time	135Ba	137Ba	159Tb	203Tl	205Tl	206Pb	207Pb	208Pb
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	15:16:53	2458.1000	2570.3000	91.21%	↹2479.4000	↹2490.5000	↹2495.7000	↹2493.6000	↹2489.2000
2	15:17:33	2457.1000	2571.9000	90.24%	↹2501.7000	↹2515.3000	↹2516.4000	↹2510.9000	↹2511.9000
3	15:18:13	2444.1000	2554.4000	90.15%	↹2517.0000	↹2537.4000	↹2525.5000	↹2531.5000	↹2529.9000
4	15:18:53	2408.9000	2517.4000	90.59%	↹2498.5000	↹2506.2000	↹2476.0000	↹2474.2000	↹2474.6000
5	15:19:32	2342.1000	2457.5000	91.26%	↹2380.2000	↹2387.6000	↹2413.8000	↹2421.8000	↹2412.3000
X		2422.0000	2534.3000	90.69%	↹2475.4000	↹2487.4000	↹2485.5000	↹2486.4000	↹2483.6000
%RSD		2.0191	1.9037	0.57	↹2.2162	↹2.3439	↹1.7871	↹1.6841	↹1.8162

Run	Time	209Bi	220Bkg
		ug/L	ug/L
1	15:16:53	91.71%	1.8230
2	15:17:33	91.17%	0.0555
3	15:18:13	91.13%	0.0558
4	15:18:53	91.41%	0.0539
5	15:19:32	91.73%	-0.5383
X		91.43%	0.2900
%RSD		0.31	308.5400

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na	24Mg	25Mg	26Mg	27Al	39K
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	15:21:14	95.47%	T 4967.1000	T 4744.8000	T 4829.2000	4780.6000	4869.6000	T 4916.3000	T 4926.0000
2	15:21:54	94.95%	TM 5003.8000	T 4808.3000	T 4900.0000	4847.5000	4925.2000	T 4954.1000	T 5003.7000
3	15:22:35	94.31%	TM 5029.0000	T 4789.5000	T 4900.4000	4911.2000	4987.6000	T 5002.3000	T 5031.7000
4	15:23:15	98.08%	T 4937.1000	T 4777.9000	T 4789.3000	4732.5000	4840.2000	T 4911.2000	T 4973.3000
5	15:23:55	95.96%	T 4987.2000	T 4732.7000	T 4821.3000	4758.2000	4893.2000	T 4971.7000	T 4900.4000
X		95.76%	TM 4984.8000	T 4770.6000	T 4848.1000	4806.0000	4903.2000	T 4951.1000	T 4967.0000
%RSD		1.50	TM 0.7028	T 0.6576	T 1.0293	1.5126	1.1539	T 0.7726	T 1.0883

Run	Time	44Ca	45Sc	47Ti	51V	52Cr	54Fe	55Mn	56Fe
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	15:21:14	4643.3000	90.70%	0.0128	T 4962.7000	T 4956.8000	7069.2000	T 4979.8000	T 5112.2000
2	15:21:54	4813.2000	90.46%	0.0315	TM 5021.2000	TM 5044.3000	7059.1000	TM 5050.4000	T 5184.9000
3	15:22:35	4749.1000	91.38%	0.0142	TM 5007.2000	TM 5010.9000	7119.0000	TM 5046.9000	T 5155.6000
4	15:23:15	4666.4000	92.39%	0.0215	TM 5012.3000	T 4985.0000	6996.6000	T 4960.6000	T 5099.5000
5	15:23:55	4669.6000	91.46%	0.0050	T 4932.6000	T 4990.3000	6965.3000	T 4914.7000	T 5090.4000
X		4708.3000	91.28%	0.0170	TM 4987.2000	TM 4997.5000	7041.9000	TM 4990.5000	T 5128.5000
%RSD		1.5074	0.83	58.8720	TM 0.7612	TM 0.6514	0.8667	TM 1.1651	T 0.7847

Run	Time	57Fe	59Co	60Ni	63Cu	65Cu	66Zn	75As	78Se
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	15:21:14	4936.0000	TM 5018.3000	T 4997.9000	T 4966.7000	T 4944.1000	T 4934.7000	T 4989.2000	-0.3995
2	15:21:54	4998.5000	T 4988.9000	T 4986.4000	T 4980.4000	TM 5005.2000	TM 5010.9000	TM 5034.4000	-0.2407
3	15:22:35	4979.4000	TM 5010.1000	TM 5048.3000	TM 5024.6000	TM 5021.5000	T 4994.0000	TM 5062.5000	-0.2483
4	15:23:15	4865.3000	T 4966.7000	T 4961.6000	T 4968.5000	T 4986.8000	T 4904.0000	T 4965.7000	-0.2115
5	15:23:55	4879.9000	T 4958.1000	T 4970.6000	T 4997.1000	TM 5005.4000	T 4934.0000	T 4985.2000	-0.1118
X		4931.8000	TM 4988.4000	TM 4993.0000	TM 4987.5000	TM 4992.6000	TM 4955.5000	TM 5007.4000	-0.2423
%RSD		1.1924	TM 0.5257	TM 0.6806	TM 0.4820	TM 0.5968	TM 0.9079	TM 0.7941	42.6570

Run	Time	82Se	83Kr	89Y	94Mo	95Mo	96Mo	97Mo	98Mo
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	15:21:14	0.6103	-0.2361	86.51%	0.0000	0.0000	0.0000	0.0000	0.0000
2	15:21:54	0.4302	0.7825	86.53%	0.0000	0.0000	0.0000	0.0000	0.0000
3	15:22:35	0.5111	0.7740	86.54%	0.0000	0.0000	0.0000	0.0000	0.0000
4	15:23:15	0.4408	0.7810	87.35%	0.0000	0.0000	0.0000	0.0000	0.0000
5	15:23:55	0.2965	0.6680	87.14%	0.0000	0.0000	0.0000	0.0000	0.0000
X		0.4578	0.5539	86.81%	0.0000	0.0000	0.0000	0.0000	0.0000
%RSD		25.1820	80.2060	0.46	0.0000	0.0000	0.0000	0.0000	0.0000

Run	Time	103Rh	107Ag	108Mo O	109Ag	111Cd	115In	118Sn	121Sb
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	15:21:14	86.76%	0.3752	-1.2351	0.3936	T 4986.7000	0.0000	0.0000	T 4998.2000
2	15:21:54	88.17%	0.4842	-15.9300	0.5004	T 4960.8000	0.0000	0.0000	TM 5016.7000
3	15:22:35	87.58%	0.9810	-21.2140	1.0304	T 5028.6000	0.0000	0.0000	TM 5028.3000
4	15:23:15	87.92%	0.9794	-22.3580	0.9945	T 4938.0000	0.0000	0.0000	T 4971.2000
5	15:23:55	87.93%	0.3431	-16.8230	0.3438	T 4925.1000	0.0000	0.0000	T 4962.7000
X		87.67%	0.6326	-15.5120	0.6526	T 4967.9000	0.0000	0.0000	TM 4995.4000
%RSD		0.63	50.8460	54.4260	51.1320	T 0.8308	0.0000	0.0000	TM 0.5661

Run	Time	135Ba	137Ba	159Tb	203Tl	205Tl	206Pb	207Pb	208Pb
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	15:21:14	TM 5038.0000	T 4981.9000	87.78%	TM 5030.1000	T 5005.3000	T 5019.6000	T 5020.2000	T 5021.3000
2	15:21:54	TM 5031.3000	T 4976.3000	88.91%	TM 5051.3000	T 5038.7000	T 5031.7000	T 5032.0000	T 5030.8000
3	15:22:35	TM 5091.1000	TM 5039.0000	88.61%	TM 5061.2000	T 5068.0000	T 5058.9000	T 5042.8000	T 5051.8000
4	15:23:15	TM 5002.5000	T 4972.5000	88.35%	TM 5019.2000	T 5008.9000	T 4975.4000	T 5000.6000	T 4993.1000
5	15:23:55	TM 5044.7000	T 4949.0000	88.81%	T 4905.4000	T 4911.7000	T 4948.1000	T 4956.6000	T 4950.8000
X		TM 5041.5000	TM 4983.7000	88.49%	TM 5013.4000	T 5006.5000	T 5006.8000	T 5010.4000	T 5009.6000
%RSD		TM 0.6359	TM 0.6688	0.51	TM 1.2500	T 1.1739	T 0.8890	T 0.6771	T 0.7794

Run	Time	209Bi	220Bkg
		ug/L	ug/L
1	15:21:14	86.57%	0.7124
2	15:21:54	87.81%	1.9277
3	15:22:35	87.78%	2.5455
4	15:23:15	88.18%	1.9175
5	15:23:55	88.70%	2.5135
X		87.81%	1.9233
%RSD		0.89	38.5760

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na	24Mg	25Mg	26Mg	27Al	39K
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	15:25:37	89.27%	1.7141	T48422.0000	T49103.0000	T49695.0000	T49985.0000	T49795.0000	T50835.0000
2	15:26:16	90.60%	1.0555	T49792.0000	T50081.0000	T50503.0000	T50934.0000	T50267.0000	T51558.0000
3	15:26:56	90.68%	0.7354	T49548.0000	T50538.0000	T50796.0000	T51192.0000	T50870.0000	T51871.0000
4	15:27:36	91.58%	0.5332	T50150.0000	T50113.0000	T50507.0000	T50347.0000	T50278.0000	T52146.0000
5	15:28:16	91.97%	0.4106	T47287.0000	T48267.0000	T48648.0000	T48529.0000	T48345.0000	T48593.0000
x		90.82%	0.8897	T49040.0000	T49620.0000	T50030.0000	T50198.0000	T49911.0000	T51001.0000
%RSD		1.15	58.6040	T2.3932	T1.8566	T1.7484	T2.0847	T1.9130	T2.8085

Run	Time	44Ca	45Sc	47Ti	51V	52Cr	54Fe	55Mn	56Fe
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	15:25:37	49535.0000	88.70%	0.0119	1.2764	1.4713	T50566.0000	2.4073	T50811.0000
2	15:26:16	50592.0000	89.95%	0.0209	0.7682	0.9845	T50998.0000	1.8841	T51470.0000
3	15:26:56	50741.0000	90.79%	0.0314	0.2836	0.6231	T51451.0000	1.5463	T51276.0000
4	15:27:36	T49957.0000	92.06%	0.0018	0.1723	0.5459	T50571.0000	1.4082	T50417.0000
5	15:28:16	48132.0000	92.31%	0.0154	0.0679	0.4084	T48777.0000	1.3265	T49065.0000
x		T49791.0000	90.76%	0.0163	0.5137	0.8066	T50473.0000	1.7145	T50608.0000
%RSD		T2.1041	1.65	67.2050	98.0500	53.0940	T2.0126	25.7790	T1.8869

Run	Time	57Fe	59Co	60Ni	63Cu	65Cu	66Zn	75As	78Se
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	15:25:37	T50957.0000	1.6133	2.2280	2.0699	2.1733	3.4403	1.8194	-0.4664
2	15:26:16	51540.0000	1.0697	1.7461	1.6208	1.5347	2.7622	1.0580	-0.3238
3	15:26:56	51943.0000	0.8438	1.5385	1.3513	1.2603	2.4928	0.8406	-0.0797
4	15:27:36	50689.0000	0.6522	1.3670	1.1125	1.1095	2.3399	0.6554	-0.1068
5	15:28:16	49030.0000	0.5689	1.2678	1.0181	1.0099	2.1395	0.4373	0.1659
x		T50832.0000	0.9496	1.6295	1.4345	1.4175	2.6350	0.9621	-0.1622
%RSD		T2.2031	44.0420	23.3660	29.6250	32.9130	19.1410	55.2010	149.8400

Run	Time	82Se	83Kr	89Y	94Mo	95Mo	96Mo	97Mo	98Mo
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	15:25:37	0.1953	-0.2377	83.00%	0.0000	0.0000	0.0000	0.0000	0.0000
2	15:26:16	-0.0767	0.0126	84.59%	0.0000	0.0000	0.0000	0.0000	0.0000
3	15:26:56	0.0560	-0.0216	85.07%	0.0000	0.0000	0.0000	0.0000	0.0000
4	15:27:36	-0.0113	0.6597	86.10%	0.0000	0.0000	0.0000	0.0000	0.0000
5	15:28:16	-0.1095	0.8800	86.86%	0.0000	0.0000	0.0000	0.0000	0.0000
x		0.0107	0.2586	85.13%	0.0000	0.0000	0.0000	0.0000	0.0000
%RSD		1127.4000	186.6900	1.74	0.0000	0.0000	0.0000	0.0000	0.0000

Run	Time	103Rh	107Ag	108Mo O	109Ag	111Cd	115In	118Sn	121Sb
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	15:25:37	82.66%	0.1690	-0.4564	0.1706	1.3576	0.0000	0.0000	2.8187
2	15:26:16	82.42%	0.2217	-0.6386	0.2326	0.8319	0.0000	0.0000	1.9184
3	15:26:56	83.88%	0.3807	0.4501	0.4117	0.4590	0.0000	0.0000	1.4214
4	15:27:36	84.48%	0.4949	-0.1676	0.5228	0.3752	0.0000	0.0000	1.1059
5	15:28:16	84.38%	0.2062	0.3370	0.1830	0.2216	0.0000	0.0000	0.9661
x		83.57%	0.2945	-0.0951	0.3041	0.6491	0.0000	0.0000	1.6461
%RSD		1.16	46.9400	502.9200	51.2020	70.1490	0.0000	0.0000	45.5990

Run	Time	135Ba	137Ba	159Tb	203Tl	205Tl	206Pb	207Pb	208Pb
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	15:25:37	1.3234	1.4879	84.70%	1.7991	1.7145	1.5485	1.5616	1.5086
2	15:26:16	0.8859	0.7996	84.58%	1.1411	1.1419	0.9750	1.0622	0.9619
3	15:26:56	0.6024	0.6254	85.44%	0.7510	0.7347	0.6773	0.6643	0.6714
4	15:27:36	0.3989	0.4233	85.65%	0.5652	0.5750	0.5369	0.5057	0.5122
5	15:28:16	0.2737	0.2361	86.59%	0.3922	0.4134	0.4244	0.3845	0.3842
x		0.6968	0.7145	85.39%	0.9297	0.9159	0.8324	0.8356	0.8077
%RSD		60.2500	67.3810	0.95	60.2290	57.0030	54.0910	57.3960	55.3820

Run	Time	209Bi	220Bkg
		ug/L	ug/L
1	15:25:37	80.40%	0.1350
2	15:26:16	80.33%	0.8095
3	15:26:56	80.84%	-0.5383
4	15:27:36	81.10%	0.1292
5	15:28:16	81.53%	0.1257
x		80.84%	0.1322
%RSD		0.62	360.4300

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na	24Mg	25Mg	26Mg	27Al	39K
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	15:30:05	85.84%	0.2133	TM 101220.0000	TM 100900.0000	T 99192.0000	TM 100900.0000	TM 100940.0000	TM 100500.0000
2	15:30:44	85.95%	0.1978	TM 100740.0000	TM 101630.0000	TM 101750.0000	TM 101880.0000	TM 101770.0000	TM 101420.0000
3	15:31:24	85.62%	0.1784	TM 102120.0000	TM 102620.0000	TM 102700.0000	TM 101940.0000	TM 102100.0000	TM 101810.0000
4	15:32:04	87.25%	0.1483	TM 101590.0000	T 99481.0000	T 99409.0000	T 99230.0000	T 99609.0000	T 99826.0000
5	15:32:44	88.57%	0.1115	T 96807.0000	T 96356.0000	T 96932.0000	T 95583.0000	T 95805.0000	T 93940.0000
X		86.65%	0.1699	TM 100490.0000	TM 100200.0000	TM 99997.0000	TM 99907.0000	TM 100050.0000	TM 99500.0000
%RSD		1.44	23.9320	TM 2.1126	TM 2.4283	TM 2.2789	TM 2.6559	TM 2.5576	TM 3.2203

Run	Time	44Ca	45Sc	47Ti	51V	52Cr	54Fe	55Mn	56Fe
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	15:30:05	TM 100460.0000	88.93%	0.0087	-0.2007	0.1541	TM 100540.0000	2.1810	TM 100840.0000
2	15:30:44	TM 102150.0000	89.55%	0.0242	-0.2231	0.1887	TM 101880.0000	2.3138	TM 102090.0000
3	15:31:24	TM 101480.0000	89.66%	0.0242	-0.2288	0.2122	TM 101710.0000	2.2656	TM 101730.0000
4	15:32:04	TM 100470.0000	91.05%	0.0267	-0.2748	0.1725	T 97786.0000	2.2699	T 98210.0000
5	15:32:44	T 96053.0000	90.98%	0.0329	-0.2814	0.1972	T 96258.0000	2.1810	T 95570.0000
X		TM 100120.0000	90.03%	0.0233	-0.2417	0.1849	TM 99635.0000	2.2423	TM 99687.0000
%RSD		TM 2.3814	1.04	38.2770	14.4310	12.1310	TM 2.5082	2.6320	TM 2.7653

Run	Time	57Fe	59Co	60Ni	63Cu	65Cu	66Zn	75As	78Se
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	15:30:05	TM 100560.0000	0.6747	1.9663	1.2331	1.3766	2.0036	0.2888	0.8233
2	15:30:44	TM 101900.0000	0.7098	2.0218	1.3474	1.3331	2.0767	0.2626	0.7003
3	15:31:24	TM 101630.0000	0.7306	1.9667	1.3077	1.4420	1.8078	0.1784	1.0302
4	15:32:04	T 97608.0000	0.7270	1.8185	1.2668	1.3952	1.9271	0.2242	1.0783
5	15:32:44	T 96251.0000	0.6919	1.7027	1.2654	1.2435	1.9086	0.0483	0.9533
X		TM 99587.0000	0.7068	1.8952	1.2841	1.3581	1.9448	0.2005	0.9171
%RSD		TM 2.5336	3.3431	6.9370	3.4402	5.5255	5.2229	47.2430	16.8840

Run	Time	82Se	83Kr	89Y	94Mo	95Mo	96Mo	97Mo	98Mo
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	15:30:05	-0.0596	0.4243	81.41%	0.0000	0.0000	0.0000	0.0000	0.0000
2	15:30:44	-0.1634	2.1956	81.60%	0.0000	0.0000	0.0000	0.0000	0.0000
3	15:31:24	-0.4209	1.4678	81.75%	0.0000	0.0000	0.0000	0.0000	0.0000
4	15:32:04	-0.1279	1.0201	82.86%	0.0000	0.0000	0.0000	0.0000	0.0000
5	15:32:44	-0.8602	3.3045	82.54%	0.0000	0.0000	0.0000	0.0000	0.0000
X		-0.3264	1.6825	82.03%	0.0000	0.0000	0.0000	0.0000	0.0000
%RSD		100.5800	66.2010	0.77	0.0000	0.0000	0.0000	0.0000	0.0000

Run	Time	103Rh	107Ag	108Mo O	109Ag	111Cd	115In	118Sn	121Sb
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	15:30:05	79.62%	0.1709	-0.4583	0.1421	0.0654	0.0000	0.0000	0.5046
2	15:30:44	79.85%	0.1824	0.0755	0.1878	0.0921	0.0000	0.0000	0.5798
3	15:31:24	80.10%	0.3481	-0.1960	0.3144	0.1222	0.0000	0.0000	0.4714
4	15:32:04	80.31%	0.3731	-0.9904	0.3823	0.0850	0.0000	0.0000	0.5266
5	15:32:44	80.64%	0.1194	-0.0760	0.1124	0.0297	0.0000	0.0000	0.5240
X		80.10%	0.2388	-0.3290	0.2278	0.0789	0.0000	0.0000	0.5213
%RSD		0.50	47.7580	127.0900	50.8290	43.3640	0.0000	0.0000	7.5653

Run	Time	135Ba	137Ba	159Tb	203Tl	205Tl	206Pb	207Pb	208Pb
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	15:30:05	0.1292	0.1279	80.38%	0.1611	0.1631	0.2522	0.2753	0.2617
2	15:30:44	0.1697	0.1900	80.63%	0.1681	0.1657	0.2431	0.2720	0.2598
3	15:31:24	0.1208	0.1519	80.19%	0.1711	0.1610	0.2643	0.2478	0.2504
4	15:32:04	0.1042	0.2093	80.28%	0.1544	0.1396	0.2619	0.2210	0.2436
5	15:32:44	0.1610	0.1512	80.43%	0.1164	0.1149	0.2084	0.2064	0.2234
X		0.1370	0.1661	80.38%	0.1542	0.1489	0.2460	0.2445	0.2478
%RSD		20.1550	19.7790	0.21	14.3300	14.5400	9.1987	12.4790	6.2365

Run	Time	209Bi	220Bkg
		ug/L	ug/L
1	15:30:05	74.58%	-0.5383
2	15:30:44	74.11%	0.1922
3	15:31:24	74.22%	0.1912
4	15:32:04	74.04%	0.1929
5	15:32:44	74.89%	0.1846
X		74.37%	0.0445
%RSD		0.48	732.1400

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Run	Time	6Li	9Be	23Na	24Mg	25Mg	26Mg	27Al	39K
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	15:34:26	99.94%	105.3300	2006.4000	1220.7000	1189.9000	1199.6000	531.4000	2009.7000
2	15:35:05	100.84%	104.5900	1984.0000	1205.6000	1191.3000	1201.4000	526.5800	2009.1000
3	15:35:45	100.88%	104.9500	2023.1000	1226.2000	1193.5000	1209.0000	532.6300	2047.5000
4	15:36:24	101.42%	104.0300	2013.3000	1208.6000	1188.1000	1206.4000	522.4500	2029.4000
5	15:37:04	102.10%	103.0500	1978.0000	1191.6000	1159.2000	1180.8000	515.7000	1979.3000
X		101.04%	104.3900	2001.0000	1210.5000	1184.4000	1199.5000	525.7500	2015.0000
%RSD		0.79	0.8507	0.9638	1.1195	1.1991	0.9229	1.3175	1.2654

Run	Time	44Ca	45Sc	47Ti	51V	52Cr	54Fe	55Mn	56Fe
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	15:34:26	1964.0000	97.48%	0.0110	98.3100	95.4010	1029.0000	97.2020	1038.1000
2	15:35:05	1944.4000	99.31%	0.0134	96.4630	94.9530	1026.1000	96.8060	1045.6000
3	15:35:45	1992.7000	98.10%	0.0066	98.4050	96.7590	1040.5000	98.9100	1056.1000
4	15:36:24	1970.8000	98.68%	0.0079	97.5800	95.1860	1031.3000	96.9790	1034.1000
5	15:37:04	1924.3000	99.41%	0.0105	96.4190	95.0260	1008.7000	96.1540	1020.6000
X		1959.3000	98.59%	0.0099	97.4350	95.4650	1027.1000	97.2100	1038.9000
%RSD		1.3293	0.83	27.3150	0.9877	0.7788	1.1287	1.0567	1.2740

Run	Time	57Fe	59Co	60Ni	63Cu	65Cu	66Zn	75As	78Se
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	15:34:26	1006.8000	98.5760	99.4880	100.4600	102.8600	206.0200	201.3200	205.5700
2	15:35:05	1001.3000	98.7180	100.6700	101.7400	103.0000	208.9800	201.0400	207.0100
3	15:35:45	1014.2000	99.5570	102.8700	102.4100	103.0700	212.3400	200.5000	207.5600
4	15:36:24	999.7300	98.4140	100.8500	102.2600	102.2500	209.2600	198.7600	207.5500
5	15:37:04	966.5600	97.3550	98.0650	99.6720	100.1900	206.2900	197.8800	200.0000
X		997.7100	98.5240	100.3900	101.3100	102.2700	208.5800	199.9000	205.5400
%RSD		1.8358	0.8002	1.7715	1.1792	1.1821	1.2360	0.7532	1.5567

Run	Time	82Se	83Kr	89Y	94Mo	95Mo	96Mo	97Mo	98Mo
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	15:34:26	206.4900	-0.6923	93.53%	0.0000	0.0000	0.0000	0.0000	0.0000
2	15:35:05	205.8200	-0.0880	93.74%	0.0000	0.0000	0.0000	0.0000	0.0000
3	15:35:45	207.1700	-0.3661	94.50%	0.0000	0.0000	0.0000	0.0000	0.0000
4	15:36:24	202.9200	0.5162	94.20%	0.0000	0.0000	0.0000	0.0000	0.0000
5	15:37:04	203.2700	-0.0264	94.97%	0.0000	0.0000	0.0000	0.0000	0.0000
X		205.1300	-0.1313	94.19%	0.0000	0.0000	0.0000	0.0000	0.0000
%RSD		0.9387	341.0400	0.61	0.0000	0.0000	0.0000	0.0000	0.0000

Run	Time	103Rh	107Ag	108Mo O	109Ag	111Cd	115In	118Sn	121Sb
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	15:34:26	94.42%	98.7150	0.4251	99.0510	99.3660	0.0000	0.0000	186.4000
2	15:35:05	95.90%	99.2690	-0.1935	99.8640	99.3640	0.0000	0.0000	187.9600
3	15:35:45	95.75%	101.6300	2.7394	101.6300	100.3200	0.0000	0.0000	190.0800
4	15:36:24	95.88%	101.1600	1.0044	102.0700	98.7460	0.0000	0.0000	188.1400
5	15:37:04	96.65%	97.0920	0.9837	97.2490	98.1730	0.0000	0.0000	187.9100
X		95.72%	99.5720	0.9918	99.9730	99.1930	0.0000	0.0000	188.1000
%RSD		0.84	1.8600	110.2200	1.9654	0.8070	0.0000	0.0000	0.6968

Run	Time	135Ba	137Ba	159Tb	203Tl	205Tl	206Pb	207Pb	208Pb
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	15:34:26	96.4560	99.0430	92.19%	199.5500	200.2500	201.4100	194.1200	195.6200
2	15:35:05	96.5490	99.5680	92.59%	200.4200	201.9600	200.9900	193.7300	195.8900
3	15:35:45	98.2070	101.2400	92.65%	202.8800	203.4100	201.3400	193.6700	195.9700
4	15:36:24	96.7660	99.9220	93.20%	201.1600	202.0100	199.6100	194.7400	196.2600
5	15:37:04	95.1290	97.7380	93.08%	194.9400	196.8800	195.4800	190.8800	192.0900
X		96.6210	99.5020	92.74%	199.7900	200.9000	199.7600	193.4300	195.1700
%RSD		1.1333	1.2824	0.44	1.4891	1.2501	1.2536	0.7686	0.8891

Run	Time	209Bi	220Bkg
		ug/L	ug/L
1	15:34:26	92.25%	-0.5383
2	15:35:05	93.36%	-0.5383
3	15:35:45	93.46%	0.0410
4	15:36:24	93.40%	-0.5383
5	15:37:04	94.67%	0.0335
X		93.43%	-0.3081
%RSD		0.92	102.3300

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Run	Time	6Li	9Be	23Na	24Mg	25Mg	26Mg	27Al	39K
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	15:38:49	101.02%	0.0719	4.6635	3.1983	2.7698	2.7274	2.4972	-0.6382
2	15:39:29	101.42%	0.0800	4.3967	3.6382	3.6162	3.9868	3.0707	-1.4380
3	15:40:09	102.27%	0.0886	4.5468	3.8396	3.9982	3.4754	3.5581	-0.9531
4	15:40:48	103.97%	0.0666	3.6086	3.8175	3.4061	3.9983	3.5993	-3.3316
5	15:41:28	103.33%	0.0662	3.1024	3.4797	2.8610	2.8791	3.2428	-2.9235
X		102.40%	0.0746	4.0636	3.5946	3.3303	3.4134	3.1937	-1.8569
%RSD		1.22	12.8320	16.6690	7.3853	15.5150	17.5220	14.0030	64.7940

Run	Time	44Ca	45Sc	47Ti	51V	52Cr	54Fe	55Mn	56Fe
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	15:38:49	-1.2949	98.07%	0.0066	-0.0657	-0.0322	2.9630	0.0317	-3.0287
2	15:39:29	-3.1468	98.63%	-0.0021	0.0437	-0.0576	0.8094	0.0176	-1.7806
3	15:40:09	-1.4835	99.09%	0.0049	-0.0064	-0.0226	1.6975	0.0266	-2.0508
4	15:40:48	-1.5206	100.81%	-0.0079	0.0494	-0.0153	2.0793	0.0209	-2.0180
5	15:41:28	-3.2378	100.43%	-0.0037	-0.0074	-0.0460	1.5812	0.0087	-1.9283
X		-2.1367	99.41%	-0.0004	0.0027	-0.0347	1.8261	0.0211	-2.1613
%RSD		45.3000	1.18	1448.9000	1717.5000	49.5000	43.0060	41.5570	22.9520

Run	Time	57Fe	59Co	60Ni	63Cu	65Cu	66Zn	75As	78Se
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	15:38:49	2.0481	0.0177	0.1381	0.1234	0.0814	0.6312	0.1011	0.3384
2	15:39:29	4.7169	0.0250	0.1611	0.0972	0.0641	0.6052	0.1366	0.1833
3	15:40:09	4.1177	0.0329	0.0847	0.0675	0.1181	0.5379	0.0228	0.0334
4	15:40:48	6.0457	0.0213	0.1430	0.0512	0.1125	0.5421	0.0795	-0.2056
5	15:41:28	5.2007	0.0187	0.1124	0.0452	0.1219	0.4725	0.1468	-0.1965
X		4.4258	0.0231	0.1278	0.0769	0.0996	0.5578	0.0974	0.0306
%RSD		34.0010	26.6550	23.2730	42.7780	25.5650	11.1760	51.0050	775.6700

Run	Time	82Se	83Kr	89Y	94Mo	95Mo	96Mo	97Mo	98Mo
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	15:38:49	0.0139	-0.9682	94.02%	0.0000	0.0000	0.0000	0.0000	0.0000
2	15:39:29	0.1910	-0.9065	95.42%	0.0000	0.0000	0.0000	0.0000	0.0000
3	15:40:09	-0.1655	0.5947	96.07%	0.0000	0.0000	0.0000	0.0000	0.0000
4	15:40:48	0.0549	0.2354	96.84%	0.0000	0.0000	0.0000	0.0000	0.0000
5	15:41:28	0.2905	-1.0837	96.49%	0.0000	0.0000	0.0000	0.0000	0.0000
X		0.0770	-0.4257	95.77%	0.0000	0.0000	0.0000	0.0000	0.0000
%RSD		226.8100	183.3600	1.16	0.0000	0.0000	0.0000	0.0000	0.0000

Run	Time	103Rh	107Ag	108Mo O	109Ag	111Cd	115In	118Sn	121Sb
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	15:38:49	96.43%	0.1461	0.5277	0.1571	0.0038	0.0000	0.0000	0.9178
2	15:39:29	96.82%	0.1671	-0.3262	0.1444	0.0294	0.0000	0.0000	0.6372
3	15:40:09	97.69%	0.2166	0.1748	0.2168	0.0048	0.0000	0.0000	0.5453
4	15:40:48	98.37%	0.2424	0.5306	0.2634	0.0150	0.0000	0.0000	0.4539
5	15:41:28	98.76%	0.0870	-0.0940	0.0802	0.0225	0.0000	0.0000	0.4165
X		97.61%	0.1718	0.1626	0.1724	0.0151	0.0000	0.0000	0.5941
%RSD		1.01	35.4730	232.9200	40.7920	73.5390	0.0000	0.0000	33.6880

Run	Time	135Ba	137Ba	159Tb	203Tl	205Tl	206Pb	207Pb	208Pb
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	15:38:49	0.0034	0.0420	93.37%	0.0724	0.0855	0.0430	0.0654	0.0539
2	15:39:29	0.0242	0.0501	93.17%	0.0782	0.0792	0.0474	0.0421	0.0505
3	15:40:09	0.0032	0.0333	94.61%	0.0770	0.0716	0.0529	0.0616	0.0471
4	15:40:48	0.0306	0.0011	94.53%	0.0783	0.0817	0.0248	0.0119	0.0290
5	15:41:28	0.0371	0.0170	95.42%	0.0558	0.0609	0.0296	0.0331	0.0337
X		0.0197	0.0287	94.22%	0.0723	0.0758	0.0396	0.0428	0.0429
%RSD		79.3250	68.8080	1.00	13.2130	12.8570	30.1490	51.0150	25.3750

Run	Time	209Bi	220Bkg
		ug/L	ug/L
1	15:38:49	94.70%	-0.5383
2	15:39:29	95.25%	-0.5383
3	15:40:09	95.79%	-0.5383
4	15:40:48	96.86%	0.5795
5	15:41:28	96.64%	-0.5383
X		95.85%	-0.3148
%RSD		0.95	158.8300

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Run	Time	6Li	9Be	23Na	24Mg	25Mg	26Mg	27Al	39K
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	15:43:09	80.80%	0.3312	T 95599.0000	T 97280.0000	T 98485.0000	TM 100500.0000	TM 100100.0000	TM 101350.0000
2	15:43:49	80.95%	0.3324	T 96108.0000	T 99568.0000	T 99981.0000	TM 102240.0000	TM 101600.0000	TM 104910.0000
3	15:44:29	80.47%	0.3197	T 98734.0000	T 99715.0000	TM 101590.0000	TM 103780.0000	TM 101600.0000	TM 106920.0000
4	15:45:09	80.84%	0.3528	T 96363.0000	T 98362.0000	TM 101770.0000	TM 103770.0000	TM 101840.0000	TM 107750.0000
5	15:45:48	80.45%	0.3210	T 96303.0000	T 97625.0000	TM 100120.0000	TM 102740.0000	TM 102760.0000	TM 105140.0000
X		80.70%	0.3314	T 96621.0000	T 98510.0000	TM 100390.0000	TM 102610.0000	TM 101580.0000	TM 105210.0000
%RSD		0.28	4.0065	T 1.2613	T 1.1226	TM 1.3379	TM 1.3173	TM 0.9410	TM 2.3470

Run	Time	44Ca	45Sc	47Ti	51V	52Cr	54Fe	55Mn	56Fe
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	15:43:09	TM 100340.0000	87.06%	282.1200	-2.3226	18.6410	TM 101790.0000	8.3066	TM 102120.0000
2	15:43:49	TM 103790.0000	85.66%	290.7600	-3.1793	19.2310	TM 104220.0000	8.6431	TM 105360.0000
3	15:44:29	TM 106130.0000	85.47%	290.2400	-2.9299	19.3640	TM 105830.0000	8.6639	TM 106640.0000
4	15:45:09	TM 106790.0000	85.80%	287.2200	-3.2755	19.1440	TM 105290.0000	8.6154	TM 106720.0000
5	15:45:48	TM 104630.0000	85.83%	291.7700	-3.3491	18.9060	TM 105390.0000	8.5922	TM 106170.0000
X		TM 104340.0000	85.97%	288.4200	-3.0113	19.0570	TM 104500.0000	8.5642	TM 105400.0000
%RSD		TM 2.4263	0.73	1.3559	13.8220	1.5037	TM 1.5594	1.7114	TM 1.8131

Run	Time	57Fe	59Co	60Ni	63Cu	65Cu	66Zn	75As	78Se
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	15:43:09	TM 102440.0000	1.2699	6.2272	7.3122	7.8345	11.3510	0.2187	0.2986
2	15:43:49	TM 106030.0000	1.3473	6.4016	7.3444	8.2992	11.4050	0.3269	-0.0462
3	15:44:29	TM 107430.0000	1.3141	6.4346	7.5143	8.2640	11.3790	0.4829	0.5252
4	15:45:09	TM 107530.0000	1.2625	6.5374	7.4755	7.8417	11.4980	0.2649	-0.0093
5	15:45:48	TM 106700.0000	1.3006	6.2553	7.2768	8.2757	11.2950	0.2638	0.5911
X		TM 106020.0000	1.2989	6.3712	7.3846	8.1030	11.3860	0.3114	0.2719
%RSD		TM 1.9749	2.6513	2.0274	1.4131	2.9890	0.6561	33.1680	108.3400

Run	Time	82Se	83Kr	89Y	94Mo	95Mo	96Mo	97Mo	98Mo
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	15:43:09	-0.1807	1.9143	81.87%	0.0000	0.0000	0.0000	0.0000	T 0.0000
2	15:43:49	-0.4593	1.6775	81.42%	0.0000	0.0000	0.0000	0.0000	T 0.0000
3	15:44:29	0.4429	0.7244	81.69%	0.0000	0.0000	0.0000	0.0000	T 0.0000
4	15:45:09	-0.2323	1.0590	82.00%	0.0000	0.0000	0.0000	0.0000	T 0.0000
5	15:45:48	-0.0597	0.6913	82.14%	0.0000	0.0000	0.0000	0.0000	T 0.0000
X		-0.0978	1.2133	81.83%	0.0000	0.0000	0.0000	0.0000	T 0.0000
%RSD		342.6900	45.9290	0.34	0.0000	0.0000	0.0000	0.0000	T 0.0000

Run	Time	103Rh	107Ag	108Mo O	109Ag	111Cd	115In	118Sn	121Sb
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	15:43:09	79.79%	0.0566	13.6290	0.0586	0.3900	0.0000	0.0000	1.3106
2	15:43:49	79.50%	0.0452	13.2190	0.0588	0.3794	0.0000	0.0000	1.3937
3	15:44:29	80.03%	0.0448	15.1540	0.0516	0.0832	0.0000	0.0000	1.2515
4	15:45:09	80.21%	0.0410	14.1000	0.0419	-0.0274	0.0000	0.0000	1.2148
5	15:45:48	79.94%	0.0319	13.2830	0.0454	0.3337	0.0000	0.0000	1.2414
X		79.89%	0.0439	13.8770	0.0513	0.2318	0.0000	0.0000	1.2824
%RSD		0.33	20.2520	5.7292	14.9210	82.5570	0.0000	0.0000	5.5667

Run	Time	135Ba	137Ba	159Tb	203Tl	205Tl	206Pb	207Pb	208Pb
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	15:43:09	1.3168	1.5372	86.03%	0.0512	0.0560	4.6010	4.1933	4.2922
2	15:43:49	1.4406	1.5753	86.56%	0.0553	0.0553	4.8087	4.2351	4.3988
3	15:44:29	1.6326	1.5032	87.35%	0.0350	0.0352	4.7979	4.3088	4.4409
4	15:45:09	1.3923	1.5108	87.82%	0.0377	0.0337	4.7701	4.3114	4.4483
5	15:45:48	1.6662	1.4249	87.95%	0.0279	0.0272	4.7932	4.1741	4.4073
X		1.4897	1.5103	87.14%	0.0414	0.0415	4.7542	4.2446	4.3975
%RSD		10.2550	3.6713	0.95	27.7060	32.0650	1.8254	1.5030	1.4223

Run	Time	209Bi	220Bkg
		ug/L	ug/L
1	15:43:09	79.48%	-0.5383
2	15:43:49	79.37%	0.1438
3	15:44:29	80.64%	-0.5383
4	15:45:09	80.76%	-0.5383
5	15:45:48	80.39%	0.1351
X		80.13%	-0.2672
%RSD		0.82	138.9300

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na	24Mg	25Mg	26Mg	27Al	39K
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	15:47:30	79.79%	19.2320	T 95958.0000	T 97864.0000	T 99396.0000	TM 102400.0000	TM 101660.0000	TM 104080.0000
2	15:48:09	80.54%	19.2910	T 96796.0000	T 99503.0000	TM 100710.0000	TM 103640.0000	TM 102060.0000	TM 106380.0000
3	15:48:49	78.99%	19.9990	T 98864.0000	TM 100330.0000	TM 102220.0000	TM 104640.0000	TM 103780.0000	TM 107460.0000
4	15:49:29	80.57%	19.1000	T 97158.0000	T 99023.0000	TM 100400.0000	TM 102700.0000	TM 101540.0000	TM 107150.0000
5	15:50:09	80.48%	18.8610	T 97501.0000	T 98271.0000	TM 100340.0000	TM 102400.0000	TM 101280.0000	TM 104860.0000
X		80.07%	19.2970	T 97255.0000	TM 98999.0000	TM 100610.0000	TM 103150.0000	TM 102060.0000	TM 105990.0000
%RSD		0.85	2.2065	T 1.0966	TM 0.9912	TM 1.0182	TM 0.9449	TM 0.9791	TM 1.3807

Run	Time	44Ca	45Sc	47Ti	51V	52Cr	54Fe	55Mn	56Fe
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	15:47:30	TM 103190.0000	85.79%	284.2500	17.4190	38.1720	TM 103280.0000	28.3470	TM 105410.0000
2	15:48:09	TM 105630.0000	85.71%	291.0800	17.4130	38.9780	TM 105270.0000	29.0860	TM 106790.0000
3	15:48:49	TM 106030.0000	86.33%	289.0000	16.9880	39.3050	TM 105660.0000	29.4060	TM 107140.0000
4	15:49:29	TM 105700.0000	85.78%	286.7100	17.3850	39.1060	TM 104780.0000	28.9920	TM 106140.0000
5	15:50:09	TM 105200.0000	86.56%	287.0300	17.6230	38.8450	TM 104320.0000	28.2790	TM 105360.0000
X		TM 105150.0000	86.03%	287.6100	17.3660	38.8810	TM 104660.0000	28.8220	TM 106170.0000
%RSD		TM 1.0762	0.45	0.8933	1.3312	1.1098	TM 0.8815	1.6999	TM 0.7565

Run	Time	57Fe	59Co	60Ni	63Cu	65Cu	66Zn	75As	78Se
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	15:47:30	TM 105560.0000	20.4560	25.1280	25.1850	25.2800	28.0810	18.3530	17.8920
2	15:48:09	TM 107700.0000	20.5970	25.8220	25.3970	26.1740	27.6210	18.2800	17.9930
3	15:48:49	TM 106690.0000	20.7590	25.5260	25.7740	26.3890	28.2320	18.8110	17.8130
4	15:49:29	TM 106890.0000	20.5540	25.3200	25.0870	25.9830	28.3730	18.4270	17.2150
5	15:50:09	TM 106000.0000	20.5610	25.1730	24.8700	25.6880	28.3030	18.3860	17.0190
X		TM 106570.0000	20.5850	25.3940	25.2630	25.9030	28.1220	18.4510	17.5860
%RSD		TM 0.7789	0.5359	1.1245	1.3582	1.6723	1.0672	1.1261	2.4948

Run	Time	82Se	83Kr	89Y	94Mo	95Mo	96Mo	97Mo	98Mo
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	15:47:30	18.4010	-0.2124	81.69%	0.0000	0.0000	0.0000	0.0000	T 0.0000
2	15:48:09	17.3760	2.2453	82.39%	0.0000	0.0000	0.0000	0.0000	T 0.0000
3	15:48:49	17.2070	1.4417	81.59%	0.0000	0.0000	0.0000	0.0000	T 0.0000
4	15:49:29	16.8350	1.4574	82.43%	0.0000	0.0000	0.0000	0.0000	T 0.0000
5	15:50:09	16.9770	2.3779	83.24%	0.0000	0.0000	0.0000	0.0000	T 0.0000
X		17.3590	1.4620	82.27%	0.0000	0.0000	0.0000	0.0000	T 0.0000
%RSD		3.5634	70.5590	0.81	0.0000	0.0000	0.0000	0.0000	T 0.0000

Run	Time	103Rh	107Ag	108Mo O	109Ag	111Cd	115In	118Sn	121Sb
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	15:47:30	79.27%	18.5310	14.2240	18.7350	19.8720	0.0000	0.0000	19.5160
2	15:48:09	79.77%	18.8690	13.3840	18.8810	20.1180	0.0000	0.0000	19.8740
3	15:48:49	80.37%	19.0320	14.0740	19.0100	20.4500	0.0000	0.0000	19.9430
4	15:49:29	80.35%	18.7340	13.3800	18.7780	19.6790	0.0000	0.0000	19.5070
5	15:50:09	80.89%	18.5950	12.8850	18.8120	20.0040	0.0000	0.0000	19.2230
X		80.13%	18.7520	13.5900	18.8430	20.0250	0.0000	0.0000	19.6130
%RSD		0.78	1.0855	4.0635	0.5710	1.4409	0.0000	0.0000	1.5067

Run	Time	135Ba	137Ba	159Tb	203Tl	205Tl	206Pb	207Pb	208Pb
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	15:47:30	21.9660	22.2770	87.94%	21.0530	20.8270	26.3220	24.7310	24.8810
2	15:48:09	21.5600	23.1080	88.52%	21.5630	21.2070	26.3850	24.8880	25.0850
3	15:48:49	22.2570	22.8200	88.90%	21.4050	21.2600	26.5770	25.1610	25.3050
4	15:49:29	22.2290	22.6590	88.85%	21.3310	21.1580	26.6770	24.6790	25.4090
5	15:50:09	21.4470	22.4270	89.35%	21.1330	21.0630	26.3170	24.3750	24.8590
X		21.8920	22.6580	88.71%	21.2970	21.1030	26.4550	24.7670	25.1080
%RSD		1.7103	1.4423	0.59	0.9691	0.8079	0.6143	1.1650	0.9827

Run	Time	209Bi	220Bkg
		ug/L	ug/L
1	15:47:30	80.20%	-0.5383
2	15:48:09	80.56%	-0.5383
3	15:48:49	80.93%	-0.5383
4	15:49:29	81.19%	0.1285
5	15:50:09	81.42%	0.1266
X		80.86%	-0.2720
%RSD		0.61	134.1000

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na	24Mg	25Mg	26Mg	27Al	39K
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	15:51:50	87.66%	↹2515.6000	↹48869.0000	↹49786.0000	↹49547.0000	↹50327.0000	↹50636.0000	↹50644.0000
2	15:52:30	87.94%	↹2557.1000	↹49852.0000	↹50075.0000	↹50534.0000	↹51471.0000	↹51117.0000	↹50407.0000
3	15:53:10	87.96%	↹2590.4000	↹50835.0000	↹50727.0000	↹50414.0000	↹51477.0000	↹51117.0000	↹50964.0000
4	15:53:49	88.27%	↹2534.9000	↹49338.0000	↹49133.0000	↹50119.0000	↹50166.0000	↹51083.0000	↹51293.0000
5	15:54:29	89.69%	↹2503.0000	↹48367.0000	↹48775.0000	↹49287.0000	↹49614.0000	↹50100.0000	↹50264.0000
X		88.30%	↹2540.2000	↹49452.0000	↹49699.0000	↹49980.0000	↹50611.0000	↹50811.0000	↹50714.0000
%RSD		0.91	↹1.3668	↹1.9190	↹1.5522	↹1.0876	↹1.6422	↹0.8787	↹0.8244

Run	Time	44Ca	45Sc	47Ti	51V	52Cr	54Fe	55Mn	56Fe
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	15:51:50	↹51132.0000	90.35%	0.1371	↹2655.6000	↹2558.5000	↹52136.0000	↹2537.0000	↹51446.0000
2	15:52:30	51301.0000	90.57%	0.1105	↹2665.7000	↹2552.1000	↹52577.0000	↹2556.9000	↹51272.0000
3	15:53:10	51610.0000	91.04%	0.0790	↹2657.2000	↹2540.4000	↹52254.0000	↹2540.3000	↹51262.0000
4	15:53:49	51282.0000	90.72%	0.0731	↹2645.7000	↹2539.3000	↹51697.0000	↹2547.3000	↹50987.0000
5	15:54:29	↹50648.0000	91.92%	0.0613	↹2614.6000	↹2500.7000	↹51020.0000	↹2483.2000	↹50224.0000
X		↹51194.0000	90.92%	0.0922	↹2647.8000	↹2538.2000	↹51937.0000	↹2532.9000	↹51038.0000
%RSD		↹0.6868	0.68	33.6290	↹0.7496	↹0.8855	↹1.1586	↹1.1373	↹0.9479

Run	Time	57Fe	59Co	60Ni	63Cu	65Cu	66Zn	75As	78Se
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	15:51:50	51353.0000	↹2528.1000	2530.8000	↹2413.9000	↹2405.6000	2406.0000	2487.5000	251.7000
2	15:52:30	51123.0000	↹2562.4000	↹2478.3000	↹2416.3000	↹2429.2000	2403.0000	2507.0000	255.6200
3	15:53:10	51147.0000	↹2555.7000	↹2493.5000	↹2445.4000	↹2456.8000	2422.0000	2501.0000	254.5800
4	15:53:49	↹50921.0000	↹2516.8000	2526.2000	↹2390.5000	↹2414.7000	2379.3000	2471.9000	252.7700
5	15:54:29	49738.0000	↹2495.3000	2501.8000	↹2381.0000	↹2372.7000	2360.7000	2430.6000	247.1100
X		↹50856.0000	↹2531.6000	↹2506.1000	↹2409.4000	↹2415.8000	2394.2000	2479.6000	252.3600
%RSD		↹1.2660	↹1.0953	↹0.8840	↹1.0431	↹1.2798	1.0083	1.2322	1.3092

Run	Time	82Se	83Kr	89Y	94Mo	95Mo	96Mo	97Mo	98Mo
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	15:51:50	254.2400	0.8373	84.64%	0.0000	0.0000	0.0000	0.0000	0.0000
2	15:52:30	251.4200	0.2199	84.51%	0.0000	0.0000	0.0000	0.0000	0.0000
3	15:53:10	256.1400	0.9962	85.26%	0.0000	0.0000	0.0000	0.0000	0.0000
4	15:53:49	253.4400	0.4214	85.73%	0.0000	0.0000	0.0000	0.0000	0.0000
5	15:54:29	247.3300	0.5707	86.46%	0.0000	0.0000	0.0000	0.0000	0.0000
X		252.5100	0.6091	85.32%	0.0000	0.0000	0.0000	0.0000	0.0000
%RSD		1.3289	51.2730	0.94	0.0000	0.0000	0.0000	0.0000	0.0000

Run	Time	103Rh	107Ag	108Mo O	109Ag	111Cd	115In	118Sn	121Sb
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	15:51:50	83.84%	256.6000	-4.0934	257.0600	2601.3000	0.0000	0.0000	↹2517.0000
2	15:52:30	84.75%	257.7100	-8.1172	258.1900	2583.3000	0.0000	0.0000	↹2535.7000
3	15:53:10	83.59%	264.8100	-2.7369	264.5700	2605.3000	0.0000	0.0000	↹2558.0000
4	15:53:49	84.01%	264.2500	-7.7632	263.5100	2573.7000	0.0000	0.0000	↹2487.6000
5	15:54:29	85.39%	251.3400	2.0829	250.8100	2538.0000	0.0000	0.0000	↹2487.4000
X		84.32%	258.9400	-4.1256	258.8300	2580.3000	0.0000	0.0000	↹2517.1000
%RSD		0.88	2.1802	101.1400	2.1403	1.0446	0.0000	0.0000	↹1.2196

Run	Time	135Ba	137Ba	159Tb	203Tl	205Tl	206Pb	207Pb	208Pb
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	15:51:50	2504.7000	2664.0000	88.25%	↹2621.2000	↹2646.3000	↹2683.0000	↹2575.2000	↹2633.9000
2	15:52:30	2521.6000	2641.2000	87.51%	↹2639.4000	↹2650.7000	↹2676.0000	↹2539.5000	↹2616.6000
3	15:53:10	2563.7000	2666.7000	87.31%	↹2669.4000	↹2673.2000	↹2706.4000	↹2583.0000	↹2643.4000
4	15:53:49	2516.1000	2642.1000	88.54%	↹2655.6000	↹2678.1000	↹2686.4000	↹2555.8000	↹2626.1000
5	15:54:29	2477.0000	2590.4000	89.13%	↹2558.6000	↹2581.1000	↹2626.7000	↹2487.3000	↹2553.4000
X		2516.6000	2640.9000	88.15%	↹2628.8000	↹2645.9000	↹2675.7000	↹2548.2000	↹2614.7000
%RSD		1.2499	1.1595	0.85	↹1.6435	↹1.4640	↹1.1083	↹1.4934	↹1.3625

Run	Time	209Bi	220Bkg
		ug/L	ug/L
1	15:51:50	82.83%	0.7690
2	15:52:30	82.87%	0.1150
3	15:53:10	82.41%	2.0893
4	15:53:49	83.09%	0.1132
5	15:54:29	84.53%	0.1022
X		83.14%	0.6377
%RSD		0.97	134.8800

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na	24Mg	25Mg	26Mg	27Al	39K
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	15:56:11	97.58%	0.6117	22.6170	12.9840	15.6190	14.5520	13.4790	20.3700
2	15:56:50	97.95%	0.4925	18.9310	11.0240	10.4510	11.4480	11.6390	16.7910
3	15:57:30	97.48%	0.3832	15.1440	9.2577	8.8429	8.8956	8.9251	12.2930
4	15:58:10	99.34%	0.3153	11.7630	7.5397	7.0411	6.8965	6.9559	8.3586
5	15:58:49	100.15%	0.2726	9.2239	5.0117	4.4463	5.0558	4.9989	4.7790
x		98.50%	0.4151	15.5360	9.1634	9.2799	9.3697	9.1997	12.5180
%RSD		1.20	33.1960	34.6480	33.6100	45.1160	39.9800	37.2690	50.0700

Run	Time	44Ca	45Sc	47Ti	51V	52Cr	54Fe	55Mn	56Fe
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	15:56:11	8.9192	95.41%	0.0277	0.4568	0.4537	14.1580	0.4540	9.6512
2	15:56:50	3.5474	96.23%	0.0055	0.3889	0.3655	13.0430	0.3573	7.8955
3	15:57:30	4.8170	96.77%	0.0140	0.3536	0.2733	12.3910	0.2891	5.5210
4	15:58:10	0.8516	97.88%	0.0137	0.1416	0.1988	8.1839	0.2513	3.2508
5	15:58:49	-0.9383	97.74%	0.0066	0.1076	0.1403	9.0136	0.1822	1.6146
x		3.4394	96.81%	0.0135	0.2897	0.2863	11.3580	0.3068	5.5866
%RSD		110.5200	1.07	65.3980	53.7310	43.9830	23.0100	33.8490	58.7500

Run	Time	57Fe	59Co	60Ni	63Cu	65Cu	66Zn	75As	78Se
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	15:56:11	13.6920	0.4607	0.5528	0.7028	0.5291	0.6989	0.7812	0.7295
2	15:56:50	13.7800	0.3575	0.4170	0.6114	0.5586	0.7529	0.5585	0.3356
3	15:57:30	12.3420	0.2928	0.3969	0.4518	0.3440	0.5907	0.5070	0.5449
4	15:58:10	7.1639	0.2585	0.2847	0.4298	0.2923	0.6221	0.4152	0.2656
5	15:58:49	6.3131	0.1697	0.2536	0.3350	0.2141	0.5192	0.2489	0.4424
x		10.6580	0.3078	0.3810	0.5062	0.3876	0.6368	0.5022	0.4636
%RSD		34.1120	35.4300	31.2140	29.2750	38.7740	14.3740	38.9170	39.3810

Run	Time	82Se	83Kr	89Y	94Mo	95Mo	96Mo	97Mo	98Mo
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	15:56:11	0.3513	-0.3952	92.87%	0.0000	0.0000	0.0000	0.0000	0.0000
2	15:56:50	-0.2430	1.1638	94.17%	0.0000	0.0000	0.0000	0.0000	0.0000
3	15:57:30	0.0579	0.4311	94.90%	0.0000	0.0000	0.0000	0.0000	0.0000
4	15:58:10	0.2058	-0.0418	95.50%	0.0000	0.0000	0.0000	0.0000	0.0000
5	15:58:49	0.2521	-0.7592	95.00%	0.0000	0.0000	0.0000	0.0000	0.0000
x		0.1248	0.0797	94.49%	0.0000	0.0000	0.0000	0.0000	0.0000
%RSD		185.2000	939.0800	1.08	0.0000	0.0000	0.0000	0.0000	0.0000

Run	Time	103Rh	107Ag	108Mo O	109Ag	111Cd	115In	118Sn	121Sb
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	15:56:11	95.64%	0.1489	0.9086	0.1472	0.4511	0.0000	0.0000	1.5338
2	15:56:50	95.92%	0.1198	0.4500	0.1193	0.3723	0.0000	0.0000	1.1603
3	15:57:30	97.19%	0.1044	0.2120	0.1073	0.2835	0.0000	0.0000	0.9730
4	15:58:10	96.95%	0.0962	0.8067	0.0995	0.2242	0.0000	0.0000	0.7168
5	15:58:49	97.52%	0.0526	0.4616	0.0479	0.1702	0.0000	0.0000	0.6686
x		96.65%	0.1044	0.5678	0.1043	0.3003	0.0000	0.0000	1.0105
%RSD		0.85	33.7760	50.2020	34.8260	37.5810	0.0000	0.0000	35.0200

Run	Time	135Ba	137Ba	159Tb	203Tl	205Tl	206Pb	207Pb	208Pb
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	15:56:11	0.4901	0.5039	96.09%	0.7740	0.7495	0.5392	0.4790	0.5077
2	15:56:50	0.4354	0.3512	95.83%	0.5333	0.5175	0.4086	0.3907	0.3929
3	15:57:30	0.2952	0.3199	96.55%	0.3943	0.3871	0.3366	0.3449	0.3341
4	15:58:10	0.2405	0.2398	96.91%	0.3060	0.2957	0.2837	0.2732	0.2685
5	15:58:49	0.1656	0.1758	96.81%	0.2172	0.2175	0.2264	0.2070	0.2055
x		0.3254	0.3181	96.44%	0.4450	0.4335	0.3589	0.3390	0.3418
%RSD		41.4900	39.1330	0.48	48.9650	48.2120	33.7450	30.9620	34.0390

Run	Time	209Bi	220Bkg
		ug/L	ug/L
1	15:56:11	97.19%	0.0187
2	15:56:50	97.66%	-0.5383
3	15:57:30	98.05%	0.0138
4	15:58:10	97.69%	-0.5383
5	15:58:49	97.60%	-0.5383
x		97.64%	-0.3165
%RSD		0.31	95.9850

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Run	Time	6Li	9Be	23Na	24Mg	25Mg	26Mg	27Al	39K
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	16:00:31	102.58%	0.1126	6.3831	2.6894	3.1269	3.0871	1.9217	2.5626
2	16:01:11	102.21%	0.1279	6.9239	2.6087	2.8014	2.7148	2.0317	2.0456
3	16:01:51	103.98%	0.1242	5.5390	2.3939	2.3262	3.0486	1.8198	1.0501
4	16:02:30	104.03%	0.1053	5.1357	2.4057	1.8470	1.9883	1.6298	1.2953
5	16:03:10	103.94%	0.0770	4.3970	1.8383	1.5587	2.2705	1.4211	-0.2281
x		103.35%	0.1094	5.6757	2.3872	2.3320	2.6219	1.7648	1.3451
%RSD		0.85	18.4770	17.6270	13.9250	27.8350	18.4110	13.7410	79.1790

Run	Time	44Ca	45Sc	47Ti	51V	52Cr	54Fe	55Mn	56Fe
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	16:00:31	-1.7867	99.72%	0.0161	0.0418	0.0152	9.1745	0.0581	-2.6382
2	16:01:11	0.3936	100.17%	0.0103	0.1009	0.0151	10.5410	0.0683	-1.4286
3	16:01:51	0.0186	100.68%	0.0172	0.0748	-0.0071	9.8191	0.0774	-2.0249
4	16:02:30	-0.7218	100.47%	0.0131	0.0483	-0.0058	10.3790	0.0482	-2.0486
5	16:03:10	-4.4553	101.39%	0.0211	-0.0159	-0.0136	8.3779	0.0459	-1.8131
x		-1.3103	100.49%	0.0155	0.0500	0.0007	9.6583	0.0596	-1.9907
%RSD		148.4400	0.62	26.3410	87.2730	1805.8000	9.2573	22.4050	22.0590

Run	Time	57Fe	59Co	60Ni	63Cu	65Cu	66Zn	75As	78Se
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	16:00:31	3.4939	0.0792	0.1835	0.1834	0.0834	0.6608	0.2196	0.1585
2	16:01:11	0.7110	0.0766	0.1870	0.1877	0.1533	0.6340	0.0675	0.2766
3	16:01:51	1.8049	0.0777	0.1356	0.1461	0.1434	0.5510	0.1321	0.1739
4	16:02:30	0.5207	0.0594	0.1456	0.1346	0.1041	0.6589	0.0627	0.1475
5	16:03:10	3.1646	0.0478	0.1486	0.0747	0.1183	0.5485	0.0632	0.2664
x		1.9390	0.0681	0.1601	0.1453	0.1205	0.6106	0.1090	0.2046
%RSD		70.4190	20.4500	14.6980	31.4450	23.6550	9.2635	62.7620	30.2600

Run	Time	82Se	83Kr	89Y	94Mo	95Mo	96Mo	97Mo	98Mo
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	16:00:31	0.2337	-1.3028	95.95%	0.0000	0.0000	0.0000	0.0000	0.0000
2	16:01:11	-0.1645	-0.1870	96.88%	0.0000	0.0000	0.0000	0.0000	0.0000
3	16:01:51	-0.0768	0.2719	97.32%	0.0000	0.0000	0.0000	0.0000	0.0000
4	16:02:30	-0.1643	-0.0221	97.19%	0.0000	0.0000	0.0000	0.0000	0.0000
5	16:03:10	-0.0478	-0.0765	98.17%	0.0000	0.0000	0.0000	0.0000	0.0000
x		-0.0439	-0.2633	97.10%	0.0000	0.0000	0.0000	0.0000	0.0000
%RSD		372.4800	229.8900	0.82	0.0000	0.0000	0.0000	0.0000	0.0000

Run	Time	103Rh	107Ag	108Mo O	109Ag	111Cd	115In	118Sn	121Sb
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	16:00:31	98.95%	0.0303	0.7434	0.0299	0.0751	0.0000	0.0000	0.3955
2	16:01:11	98.70%	0.0394	0.8389	0.0347	0.0901	0.0000	0.0000	0.3419
3	16:01:51	100.34%	0.0501	0.4545	0.0484	0.0604	0.0000	0.0000	0.3519
4	16:02:30	99.77%	0.0591	0.4337	0.0760	0.0862	0.0000	0.0000	0.3047
5	16:03:10	100.52%	0.0367	0.3988	0.0316	0.0562	0.0000	0.0000	0.2790
x		99.66%	0.0431	0.5738	0.0441	0.0736	0.0000	0.0000	0.3346
%RSD		0.82	26.5510	35.2330	43.6720	20.4940	0.0000	0.0000	13.4120

Run	Time	135Ba	137Ba	159Tb	203Tl	205Tl	206Pb	207Pb	208Pb
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	16:00:31	0.0895	0.0791	98.39%	0.1249	0.1160	0.1428	0.0823	0.1061
2	16:01:11	0.0562	0.0713	98.44%	0.0951	0.0975	0.1104	0.0803	0.0889
3	16:01:51	0.0291	0.0744	98.99%	0.0862	0.0800	0.0884	0.0499	0.0827
4	16:02:30	0.0694	0.0947	97.95%	0.0742	0.0717	0.0720	0.0608	0.0743
5	16:03:10	0.0754	0.0550	98.91%	0.0589	0.0642	0.0643	0.0423	0.0583
x		0.0639	0.0749	98.53%	0.0879	0.0859	0.0956	0.0631	0.0821
%RSD		35.7090	19.0750	0.43	28.2000	24.3000	33.2250	28.2940	21.5630

Run	Time	209Bi	220Bkg
		ug/L	ug/L
1	16:00:31	98.34%	0.0122
2	16:01:11	98.99%	-0.5383
3	16:01:51	99.97%	-0.5383
4	16:02:30	99.26%	1.0979
5	16:03:10	99.96%	-0.5383
x		99.30%	-0.1010
%RSD		0.70	704.4500

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Run	Time	6Li	9Be	23Na	24Mg	25Mg	26Mg	27Al	39K
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	16:04:53	102.53%	2.0098	T955.5000	T960.6300	941.6700	964.4300	40.9870	1013.9000
2	16:05:32	104.34%	1.9463	T958.8000	957.4300	956.3500	977.5300	39.7940	1017.1000
3	16:06:12	104.82%	2.0597	T966.9000	949.9900	960.8000	977.4600	40.4970	1025.2000
4	16:06:52	105.43%	1.9855	T968.4900	962.0600	970.4400	969.2300	39.0890	1030.7000
5	16:07:31	104.24%	1.9257	T924.1700	921.2900	916.2800	949.5100	38.6770	976.2200
X		104.27%	1.9854	T954.7700	T950.2800	949.1100	967.6300	39.8090	1012.6000
%RSD		1.04	2.6653	T1.8798	T1.7748	2.2210	1.1960	2.4038	2.1149

Run	Time	44Ca	45Sc	47Ti	51V	52Cr	54Fe	55Mn	56Fe
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	16:04:53	931.5100	100.90%	0.0143	10.2280	3.7763	401.1500	1.9588	398.7100
2	16:05:32	944.5100	101.92%	0.0058	10.3320	3.7016	398.2900	1.9246	394.3700
3	16:06:12	957.0600	102.39%	0.0057	10.4750	3.7470	391.8400	1.9662	401.5900
4	16:06:52	930.1700	101.71%	0.0224	9.9905	3.7615	394.7400	1.9055	392.3200
5	16:07:31	919.6700	102.22%	0.0085	9.9446	3.6787	380.2100	1.9085	386.4400
X		936.5900	101.83%	0.0114	10.1940	3.7330	393.2500	1.9327	394.6900
%RSD		1.5426	0.57	62.4120	2.2081	1.1058	2.0581	1.4622	1.4856

Run	Time	57Fe	59Co	60Ni	63Cu	65Cu	66Zn	75As	78Se
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	16:04:53	385.4800	1.9068	2.1047	4.0492	3.9369	4.6723	1.5208	8.7877
2	16:05:32	391.1900	1.9942	2.0699	4.0223	4.2206	4.7215	2.2626	8.2706
3	16:06:12	398.1400	1.9169	2.0990	3.8941	4.0247	4.6890	1.7943	8.6261
4	16:06:52	390.1100	1.8971	2.1361	3.9991	3.9899	4.5023	1.8850	9.2788
5	16:07:31	376.1800	1.8430	1.9392	3.8919	3.8783	4.2475	1.8341	9.1260
X		388.2200	1.9116	2.0698	3.9713	4.0101	4.5665	1.8594	8.8179
%RSD		2.0898	2.8416	3.7043	1.8552	3.2439	4.3264	14.2990	4.5524

Run	Time	82Se	83Kr	89Y	94Mo	95Mo	96Mo	97Mo	98Mo
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	16:04:53	8.4877	0.3721	96.53%	0.0000	0.0000	0.0000	0.0000	0.0000
2	16:05:32	9.6748	-0.4046	97.40%	0.0000	0.0000	0.0000	0.0000	0.0000
3	16:06:12	8.5914	-0.5292	97.42%	0.0000	0.0000	0.0000	0.0000	0.0000
4	16:06:52	8.5928	0.0732	97.52%	0.0000	0.0000	0.0000	0.0000	0.0000
5	16:07:31	8.7034	-0.7889	97.89%	0.0000	0.0000	0.0000	0.0000	0.0000
X		8.8100	-0.2555	97.35%	0.0000	0.0000	0.0000	0.0000	0.0000
%RSD		5.5550	183.9800	0.51	0.0000	0.0000	0.0000	0.0000	0.0000

Run	Time	103Rh	107Ag	108Mo O	109Ag	111Cd	115In	118Sn	121Sb
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	16:04:53	98.67%	2.0170	0.1047	1.9627	1.8113	0.0000	0.0000	3.7282
2	16:05:32	99.08%	2.0094	0.0383	2.0223	1.9018	0.0000	0.0000	3.9062
3	16:06:12	99.93%	2.0120	0.5098	2.0975	1.8755	0.0000	0.0000	3.7694
4	16:06:52	100.11%	2.0200	0.4396	2.1358	1.8742	0.0000	0.0000	3.6896
5	16:07:31	99.75%	1.9596	-0.0750	1.9453	1.7810	0.0000	0.0000	3.8009
X		99.51%	2.0036	0.2035	2.0327	1.8488	0.0000	0.0000	3.7788
%RSD		0.61	1.2452	126.2900	4.0770	2.7270	0.0000	0.0000	2.1869

Run	Time	135Ba	137Ba	159Tb	203Tl	205Tl	206Pb	207Pb	208Pb
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	16:04:53	18.7450	18.9010	98.68%	1.9173	1.9062	1.9780	1.8688	1.8796
2	16:05:32	19.1660	19.5390	98.06%	1.9711	1.8827	2.0132	1.8673	1.9032
3	16:06:12	18.8270	19.5350	98.33%	1.9440	1.9176	1.9339	2.0054	1.9325
4	16:06:52	18.6550	19.9420	98.50%	1.9052	1.9481	1.8999	1.9055	1.8572
5	16:07:31	18.4430	18.2530	98.94%	1.8966	1.8075	1.7614	1.8564	1.8401
X		18.7670	19.2340	98.50%	1.9269	1.8924	1.9173	1.9007	1.8825
%RSD		1.4118	3.4473	0.34	1.5842	2.7995	5.0682	3.2318	1.9483

Run	Time	209Bi	220Bkg
		ug/L	ug/L
1	16:04:53	98.50%	1.6602
2	16:05:32	98.88%	-0.5383
3	16:06:12	99.76%	0.0044
4	16:06:52	99.84%	-0.5383
5	16:07:31	99.37%	-0.5383
X		99.27%	0.0099
%RSD		0.58	9597.3000

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Run	Time	6Li	9Be	23Na	24Mg	25Mg	26Mg	27Al	39K
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	16:09:13	96.57%	0.8054	71.5520	┬1927.3000	1899.6000	1933.5000	┬16110.0000	┬3435.5000
2	16:09:53	96.57%	0.7908	69.7510	┬1942.8000	1897.6000	1925.5000	┬16035.0000	┬3484.2000
3	16:10:32	96.21%	0.8424	70.9870	┬1959.8000	1944.7000	1983.8000	┬16506.0000	┬3517.0000
4	16:11:12	96.19%	0.8149	69.4570	┬1938.6000	1902.2000	1946.6000	┬15918.0000	┬3500.7000
5	16:11:52	96.07%	0.7570	67.6320	┬1879.9000	1845.9000	1923.6000	┬15886.0000	┬3364.8000
x		96.32%	0.8021	69.8760	┬1929.7000	1898.0000	1942.6000	┬16091.0000	┬3460.4000
%RSD		0.24	3.9250	2.1788	┬1.5632	1.8455	1.2742	┬1.5466	┬1.7779

Run	Time	44Ca	45Sc	47Ti	51V	52Cr	54Fe	55Mn	56Fe
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	16:09:13	3902.7000	99.54%	21.5340	31.4460	24.4470	16302.0000	┬412.6400	┬16418.0000
2	16:09:53	3873.5000	101.38%	24.4190	32.3060	24.6430	16260.0000	422.1300	┬16498.0000
3	16:10:32	4022.8000	100.64%	21.4720	32.4340	24.8090	16620.0000	429.4900	┬16755.0000
4	16:11:12	3982.0000	100.04%	20.9340	31.3290	24.5080	16165.0000	┬411.9500	┬16380.0000
5	16:11:52	3880.1000	100.61%	22.3670	31.0960	24.2330	16002.0000	┬407.3600	┬16282.0000
x		3932.2000	100.44%	22.1450	31.7220	24.5280	16270.0000	┬416.7100	┬16466.0000
%RSD		1.6924	0.69	6.1888	1.9111	0.8795	1.3962	┬2.1441	┬1.0862

Run	Time	57Fe	59Co	60Ni	63Cu	65Cu	66Zn	75As	78Se
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	16:09:13	15895.0000	7.1488	14.2520	209.4800	208.8500	179.9700	5.1136	-0.3355
2	16:09:53	15852.0000	7.2741	14.3970	210.1400	211.0600	180.2400	5.3025	0.0039
3	16:10:32	16072.0000	7.2482	14.6840	212.8200	212.6300	181.2200	5.2613	-0.6233
4	16:11:12	15826.0000	7.1147	14.9600	210.3100	210.4200	179.1100	4.9196	-0.4734
5	16:11:52	15580.0000	7.1706	14.4900	204.7800	205.9100	178.5300	5.0938	-0.2998
x		15845.0000	7.1913	14.5570	209.5100	209.7800	179.8100	5.1382	-0.3456
%RSD		1.1138	0.9378	1.8867	1.3988	1.2166	0.5783	2.9597	67.5230

Run	Time	82Se	83Kr	89Y	94Mo	95Mo	96Mo	97Mo	98Mo
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	16:09:13	0.0669	0.6698	99.05%	0.0000	0.0000	0.0000	0.0000	0.0000
2	16:09:53	0.5223	0.2077	99.66%	0.0000	0.0000	0.0000	0.0000	0.0000
3	16:10:32	0.6061	0.1907	100.11%	0.0000	0.0000	0.0000	0.0000	0.0000
4	16:11:12	-0.1768	0.7403	99.86%	0.0000	0.0000	0.0000	0.0000	0.0000
5	16:11:52	0.5226	-0.3842	99.79%	0.0000	0.0000	0.0000	0.0000	0.0000
x		0.3082	0.2849	99.69%	0.0000	0.0000	0.0000	0.0000	0.0000
%RSD		111.6900	158.7400	0.40	0.0000	0.0000	0.0000	0.0000	0.0000

Run	Time	103Rh	107Ag	108Mo O	109Ag	111Cd	115In	118Sn	121Sb
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	16:09:13	95.05%	0.0885	-0.2328	0.0942	0.4766	0.0000	0.0000	0.2811
2	16:09:53	95.78%	0.0867	0.3057	0.0915	0.4754	0.0000	0.0000	0.3166
3	16:10:32	95.56%	0.0965	-0.4649	0.0953	0.4825	0.0000	0.0000	0.2875
4	16:11:12	96.03%	0.1220	0.0310	0.1090	0.5259	0.0000	0.0000	0.2479
5	16:11:52	96.07%	0.0852	0.1596	0.0730	0.4743	0.0000	0.0000	0.2360
x		95.70%	0.0958	-0.0403	0.0926	0.4869	0.0000	0.0000	0.2738
%RSD		0.43	15.9750	767.0900	13.9170	4.5186	0.0000	0.0000	11.7950

Run	Time	135Ba	137Ba	159Tb	203Tl	205Tl	206Pb	207Pb	208Pb
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	16:09:13	128.4900	132.6900	95.93%	0.1719	0.1714	99.8320	92.2290	94.3120
2	16:09:53	131.4200	134.5900	95.58%	0.1682	0.1624	99.8930	91.7620	94.6740
3	16:10:32	134.2900	137.4700	96.54%	0.1889	0.1719	101.8200	93.7960	96.0810
4	16:11:12	130.8300	134.7000	96.03%	0.1771	0.1616	99.5620	91.9220	94.3300
5	16:11:52	127.4900	130.4800	95.88%	0.1584	0.1591	97.7560	89.4580	91.8850
x		130.5000	133.9800	95.99%	0.1729	0.1653	99.7730	91.8330	94.2570
%RSD		2.0430	1.9385	0.36	6.5078	3.5928	1.4469	1.6927	1.6035

Run	Time	209Bi	220Bkg
		ug/L	ug/L
1	16:09:13	95.17%	-0.5383
2	16:09:53	95.94%	-0.5383
3	16:10:32	94.97%	0.0318
4	16:11:12	95.16%	-0.5383
5	16:11:52	95.54%	-0.5383
x		95.36%	-0.4243
%RSD		0.41	60.0850

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na	24Mg	25Mg	26Mg	27Al	39K
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	16:13:33	95.49%	0.6951	53.4460	T 1581.0000	1542.8000	1607.3000	T 16305.0000	T 2724.3000
2	16:14:13	96.44%	0.7444	55.0890	T 1593.8000	1557.8000	1575.5000	T 16346.0000	T 2751.2000
3	16:14:53	98.01%	0.6671	54.2710	T 1573.7000	1558.2000	1574.4000	T 16102.0000	T 2751.6000
4	16:15:32	97.30%	0.7265	52.5680	T 1557.5000	1527.1000	1531.5000	T 15908.0000	T 2769.5000
5	16:16:12	97.32%	0.6737	52.9390	T 1521.6000	1497.3000	1544.6000	T 15804.0000	T 2655.5000
X		96.91%	0.7013	53.6630	T 1565.5000	1536.6000	1566.7000	T 16093.0000	T 2730.4000
%RSD		1.00	4.7640	1.9035	T 1.7791	1.6548	1.8915	T 1.4799	T 1.6436

Run	Time	44Ca	45Sc	47Ti	51V	52Cr	54Fe	55Mn	56Fe
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	16:13:33	2304.7000	99.94%	23.2250	31.2330	20.6670	14953.0000	T 268.7200	T 15127.0000
2	16:14:13	2328.4000	100.04%	23.9340	31.0490	20.5980	15013.0000	272.1600	T 15230.0000
3	16:14:53	2329.7000	100.92%	23.2640	30.5780	20.5900	14918.0000	272.1300	T 15312.0000
4	16:15:32	2241.4000	100.72%	22.4580	30.7890	20.3820	14710.0000	266.1100	T 14940.0000
5	16:16:12	2214.1000	101.34%	22.4530	29.6090	19.8120	14282.0000	259.8800	T 14608.0000
X		2283.7000	100.59%	23.0670	30.6520	20.4100	14775.0000	T 267.8000	T 15043.0000
%RSD		2.3165	0.59	2.7103	2.0672	1.7182	2.0198	T 1.9067	T 1.8625

Run	Time	57Fe	59Co	60Ni	63Cu	65Cu	66Zn	75As	78Se
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	16:13:33	14552.0000	5.0971	12.2820	232.8100	234.5200	171.7600	4.4346	-0.1277
2	16:14:13	14621.0000	5.1469	11.9770	236.3700	234.6600	170.2900	4.3768	-0.4310
3	16:14:53	14576.0000	5.1625	11.9410	235.0500	235.2000	173.1900	4.7002	-0.0583
4	16:15:32	14407.0000	5.1141	11.8910	230.8800	232.5800	170.6200	4.5777	-0.1995
5	16:16:12	14054.0000	4.9442	11.6670	225.6700	226.3200	166.9600	4.2740	-0.2306
X		14442.0000	5.0930	11.9520	232.1500	232.6600	170.5600	4.4727	-0.2094
%RSD		1.6000	1.7101	1.8458	1.8057	1.5805	1.3567	3.7569	67.1780

Run	Time	82Se	83Kr	89Y	94Mo	95Mo	96Mo	97Mo	98Mo
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	16:13:33	0.3125	-0.2111	98.70%	0.0000	0.0000	0.0000	0.0000	0.0000
2	16:14:13	0.1090	1.0528	99.56%	0.0000	0.0000	0.0000	0.0000	0.0000
3	16:14:53	0.7051	0.6005	100.13%	0.0000	0.0000	0.0000	0.0000	0.0000
4	16:15:32	0.7222	-0.2659	99.77%	0.0000	0.0000	0.0000	0.0000	0.0000
5	16:16:12	0.4653	-0.9777	99.73%	0.0000	0.0000	0.0000	0.0000	0.0000
X		0.4628	0.0397	99.58%	0.0000	0.0000	0.0000	0.0000	0.0000
%RSD		56.5310	2003.5000	0.53	0.0000	0.0000	0.0000	0.0000	0.0000

Run	Time	103Rh	107Ag	108Mo O	109Ag	111Cd	115In	118Sn	121Sb
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	16:13:33	95.84%	0.0994	0.4544	0.1020	0.3912	0.0000	0.0000	0.2504
2	16:14:13	96.23%	0.0979	0.7632	0.0992	0.4335	0.0000	0.0000	0.1926
3	16:14:53	96.08%	0.1131	-0.0448	0.1256	0.4772	0.0000	0.0000	0.2304
4	16:15:32	96.75%	0.1211	-0.5291	0.1235	0.4401	0.0000	0.0000	0.2175
5	16:16:12	95.99%	0.1044	-0.2944	0.0894	0.4035	0.0000	0.0000	0.1777
X		96.18%	0.1072	0.0698	0.1080	0.4291	0.0000	0.0000	0.2137
%RSD		0.36	9.1285	762.1000	14.7240	7.8617	0.0000	0.0000	13.6030

Run	Time	135Ba	137Ba	159Tb	203Tl	205Tl	206Pb	207Pb	208Pb
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	16:13:33	95.9730	97.8390	95.11%	0.1435	0.1603	47.1420	42.9880	44.2570
2	16:14:13	96.0690	97.8940	94.97%	0.1516	0.1670	47.4570	43.0600	44.6660
3	16:14:53	96.6710	100.5000	95.39%	0.1654	0.1611	48.4700	42.9240	44.8300
4	16:15:32	94.5410	96.8990	96.15%	0.1715	0.1508	47.2400	42.1820	44.0570
5	16:16:12	94.4830	96.7640	94.82%	0.1567	0.1644	45.7710	41.3140	42.9650
X		95.5480	97.9790	95.29%	0.1577	0.1607	47.2160	42.4930	44.1550
%RSD		1.0282	1.5332	0.55	7.0001	3.8198	2.0443	1.7607	1.6612

Run	Time	209Bi	220Bkg
		ug/L	ug/L
1	16:13:33	94.50%	0.6074
2	16:14:13	94.57%	0.0342
3	16:14:53	95.14%	-0.5383
4	16:15:32	95.11%	-0.5383
5	16:16:12	95.02%	-0.5383
X		94.87%	-0.1947
%RSD		0.32	263.1800

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Run	Time	6Li	9Be	23Na	24Mg	25Mg	26Mg	27Al	39K
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	16:17:54	95.87%	0.3911	35.2450	972.4700	974.5600	981.4300	↹11013.0000	↹1970.0000
2	16:18:33	98.62%	0.4379	31.8960	972.3300	948.4400	982.2200	↹10834.0000	↹2001.2000
3	16:19:13	97.20%	0.4322	31.3330	968.0000	964.0600	967.7600	↹10876.0000	↹2009.1000
4	16:19:53	98.32%	0.4392	31.1440	943.4800	939.3000	961.7500	↹10525.0000	↹1988.0000
5	16:20:32	97.78%	0.4271	29.6740	943.3200	926.3500	953.8100	↹10594.0000	↹1901.4000
X		97.56%	0.4255	31.8580	959.9200	950.5400	969.3900	↹10768.0000	↹1973.9000
%RSD		1.11	4.6575	6.4761	1.5820	2.0204	1.2775	↹1.8875	↹2.1860

Run	Time	44Ca	45Sc	47Ti	51V	52Cr	54Fe	55Mn	56Fe
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	16:17:54	1291.4000	99.50%	20.8840	19.6300	14.1680	11515.0000	↹494.0000	↹11889.0000
2	16:18:33	1299.1000	100.56%	19.9350	19.7400	13.9320	11398.0000	↹487.3700	↹11826.0000
3	16:19:13	1315.1000	100.22%	19.5540	19.8940	14.0540	11643.0000	↹492.1200	↹11907.0000
4	16:19:53	1300.6000	100.70%	20.0570	19.4960	13.7280	11256.0000	↹477.1200	↹11601.0000
5	16:20:32	1268.4000	101.23%	18.8850	19.3770	13.3880	11194.0000	↹473.8600	↹11503.0000
X		1294.9000	100.44%	19.8630	19.6270	13.8540	11401.0000	↹484.8900	↹11745.0000
%RSD		1.3238	0.64	3.6805	1.0310	2.2177	1.6123	↹1.8547	↹1.5496

Run	Time	57Fe	59Co	60Ni	63Cu	65Cu	66Zn	75As	78Se
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	16:17:54	11354.0000	6.5310	7.3066	55.2040	56.6550	121.3000	3.3909	-0.5610
2	16:18:33	11283.0000	6.6074	7.1775	55.8610	56.5050	122.8800	3.4813	-0.4260
3	16:19:13	11422.0000	6.6472	7.6280	55.6600	56.8230	123.5000	3.5123	-0.4323
4	16:19:53	11018.0000	6.5051	7.0245	54.6950	55.4270	119.9300	3.2444	-0.2303
5	16:20:32	10859.0000	6.3436	7.2519	54.3300	54.5740	118.5700	3.2604	-0.5344
X		11187.0000	6.5269	7.2777	55.1500	55.9970	121.2300	3.3779	-0.4368
%RSD		2.1350	1.7974	3.0595	1.1642	1.7226	1.6819	3.6427	29.7910

Run	Time	82Se	83Kr	89Y	94Mo	95Mo	96Mo	97Mo	98Mo
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	16:17:54	0.6207	-0.6506	97.87%	0.0000	0.0000	0.0000	0.0000	0.0000
2	16:18:33	0.0099	0.2819	98.31%	0.0000	0.0000	0.0000	0.0000	0.0000
3	16:19:13	0.5885	-0.6135	98.29%	0.0000	0.0000	0.0000	0.0000	0.0000
4	16:19:53	0.5277	0.1998	98.73%	0.0000	0.0000	0.0000	0.0000	0.0000
5	16:20:32	0.2729	-0.6358	97.27%	0.0000	0.0000	0.0000	0.0000	0.0000
X		0.4040	-0.2837	98.09%	0.0000	0.0000	0.0000	0.0000	0.0000
%RSD		64.1750	169.1800	0.56	0.0000	0.0000	0.0000	0.0000	0.0000

Run	Time	103Rh	107Ag	108Mo O	109Ag	111Cd	115In	118Sn	121Sb
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	16:17:54	96.22%	0.0531	-0.5384	0.0544	0.3100	0.0000	0.0000	0.1906
2	16:18:33	96.69%	0.0481	0.5145	0.0521	0.3048	0.0000	0.0000	0.2116
3	16:19:13	96.89%	0.0584	-0.0270	0.0584	0.3161	0.0000	0.0000	0.2137
4	16:19:53	96.72%	0.0700	-0.0927	0.0750	0.3145	0.0000	0.0000	0.1959
5	16:20:32	96.52%	0.0559	0.7456	0.0409	0.2993	0.0000	0.0000	0.1870
X		96.61%	0.0571	0.1204	0.0561	0.3089	0.0000	0.0000	0.1997
%RSD		0.26	14.3190	425.0100	22.0490	2.2534	0.0000	0.0000	6.1109

Run	Time	135Ba	137Ba	159Tb	203Tl	205Tl	206Pb	207Pb	208Pb
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	16:17:54	78.7780	81.7180	94.60%	0.1163	0.1093	31.9250	28.9670	29.9500
2	16:18:33	78.7500	81.3790	95.74%	0.1193	0.1159	31.4470	29.2880	29.8760
3	16:19:13	80.0660	81.2960	95.45%	0.1243	0.1174	31.8620	29.2070	30.0980
4	16:19:53	78.6310	79.6340	95.40%	0.1282	0.1133	31.2080	28.6290	29.5640
5	16:20:32	75.2870	77.4090	95.69%	0.1168	0.1055	30.0990	27.8170	28.6670
X		78.3030	80.2870	95.38%	0.1210	0.1123	31.3080	28.7820	29.6310
%RSD		2.2791	2.2425	0.48	4.2346	4.3486	2.3572	2.0730	1.9337

Run	Time	209Bi	220Bkg
		ug/L	ug/L
1	16:17:54	94.81%	-0.5383
2	16:18:33	94.91%	-0.5383
3	16:19:13	95.13%	-0.5383
4	16:19:53	94.45%	1.1813
5	16:20:32	95.35%	-0.5383
X		94.93%	-0.1944
%RSD		0.36	395.5700

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Run	Time	6Li	9Be	23Na	24Mg	25Mg	26Mg	27Al	39K
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	16:22:14	97.83%	0.4817	38.1600	1087.7000	1084.4000	1082.5000	┬12152.0000	┬2205.9000
2	16:22:54	96.96%	0.4692	33.8230	1113.7000	1092.7000	1111.2000	┬12353.0000	┬2239.3000
3	16:23:34	97.37%	0.5062	35.5590	1118.3000	1109.7000	1146.3000	┬12523.0000	┬2281.1000
4	16:24:14	97.60%	0.5024	33.9610	1109.2000	1120.9000	1134.9000	┬12414.0000	┬2272.4000
5	16:24:53	97.88%	0.4887	32.8990	1118.1000	1104.2000	1130.3000	┬12478.0000	┬2214.6000
X		97.53%	0.4896	34.8800	1109.4000	1102.4000	1121.0000	┬12384.0000	┬2242.7000
%RSD		0.39	3.0929	5.9287	1.1461	1.2961	2.2273	┬1.1690	┬1.4979

Run	Time	44Ca	45Sc	47Ti	51V	52Cr	54Fe	55Mn	56Fe
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	16:22:14	1501.8000	99.51%	19.1960	22.8350	16.9110	14065.0000	┬606.6700	┬14390.0000
2	16:22:54	1506.0000	99.81%	19.5650	23.3830	16.7040	┬14390.0000	┬615.3500	┬14330.0000
3	16:23:34	1501.6000	99.77%	20.3810	23.3140	16.9780	14320.0000	┬617.2300	┬14716.0000
4	16:24:14	1543.1000	100.73%	19.1110	23.4010	16.9530	14149.0000	┬620.0700	┬14562.0000
5	16:24:53	1534.7000	100.83%	20.5040	23.1280	16.6180	14283.0000	┬611.3500	┬14579.0000
X		1517.4000	100.13%	19.7510	23.2120	16.8330	┬14242.0000	┬614.1300	┬14515.0000
%RSD		1.3104	0.60	3.3161	1.0203	0.9601	┬0.9270	┬0.8527	┬1.0685

Run	Time	57Fe	59Co	60Ni	63Cu	65Cu	66Zn	75As	78Se
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	16:22:14	13780.0000	8.4358	8.5936	126.7300	129.7900	173.9500	4.1518	-0.5942
2	16:22:54	13853.0000	8.4265	8.5862	129.3300	130.2100	172.5100	3.9177	-0.5271
3	16:23:34	14083.0000	8.5986	8.8496	131.8800	132.4300	175.5000	4.0633	-0.5129
4	16:24:14	13826.0000	8.4380	8.6105	129.2700	131.9200	176.7100	4.3392	-0.7075
5	16:24:53	13821.0000	8.5221	8.5836	128.8900	130.9400	172.4900	3.8927	-0.3416
X		13873.0000	8.4842	8.6447	129.2200	131.0600	174.2300	4.0730	-0.5366
%RSD		0.8677	0.8809	1.3305	1.4155	0.8492	1.0664	4.4906	24.8670

Run	Time	82Se	83Kr	89Y	94Mo	95Mo	96Mo	97Mo	98Mo
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	16:22:14	0.1715	0.5282	97.22%	0.0000	0.0000	0.0000	0.0000	0.0000
2	16:22:54	0.3128	-0.5673	98.67%	0.0000	0.0000	0.0000	0.0000	0.0000
3	16:23:34	0.0389	0.8336	98.21%	0.0000	0.0000	0.0000	0.0000	0.0000
4	16:24:14	0.6642	-0.5288	97.65%	0.0000	0.0000	0.0000	0.0000	0.0000
5	16:24:53	-0.1345	1.1436	98.90%	0.0000	0.0000	0.0000	0.0000	0.0000
X		0.2106	0.2819	98.13%	0.0000	0.0000	0.0000	0.0000	0.0000
%RSD		143.7100	279.6900	0.71	0.0000	0.0000	0.0000	0.0000	0.0000

Run	Time	103Rh	107Ag	108Mo O	109Ag	111Cd	115In	118Sn	121Sb
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	16:22:14	95.24%	0.0705	-0.2363	0.0770	0.4270	0.0000	0.0000	0.1324
2	16:22:54	96.31%	0.0572	0.2345	0.0709	0.4576	0.0000	0.0000	0.1535
3	16:23:34	96.23%	0.0878	-0.1349	0.0814	0.3660	0.0000	0.0000	0.1431
4	16:24:14	95.96%	0.0842	0.7447	0.0792	0.3622	0.0000	0.0000	0.1613
5	16:24:53	95.74%	0.0642	-0.1035	0.0631	0.3662	0.0000	0.0000	0.1775
X		95.90%	0.0728	0.1009	0.0743	0.3958	0.0000	0.0000	0.1536
%RSD		0.45	17.8680	397.5800	9.9387	11.0700	0.0000	0.0000	11.2170

Run	Time	135Ba	137Ba	159Tb	203Tl	205Tl	206Pb	207Pb	208Pb
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	16:22:14	93.7280	95.0830	94.46%	0.1289	0.1301	36.6790	33.5200	34.6460
2	16:22:54	94.0120	95.5380	95.14%	0.1253	0.1351	36.7600	33.8560	35.1590
3	16:23:34	95.0330	97.7840	95.58%	0.1341	0.1263	37.2480	34.1280	35.2550
4	16:24:14	93.2110	95.8840	95.43%	0.1456	0.1359	37.1340	34.2860	35.2580
5	16:24:53	92.6330	96.1950	95.62%	0.1402	0.1400	37.0530	34.2810	35.2980
X		93.7230	96.0970	95.25%	0.1348	0.1335	36.9750	34.0140	35.1230
%RSD		0.9619	1.0715	0.50	6.1146	4.0063	0.6627	0.9611	0.7727

Run	Time	209Bi	220Bkg
		ug/L	ug/L
1	16:22:14	94.40%	0.0352
2	16:22:54	94.81%	0.6037
3	16:23:34	95.26%	0.0300
4	16:24:14	95.55%	0.0283
5	16:24:53	95.62%	0.0278
X		95.13%	0.1450
%RSD		0.54	176.8700

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na	24Mg	25Mg	26Mg	27Al	39K
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	16:26:35	97.71%	0.3806	40.6160	↹3700.3000	3607.3000	3661.5000	↹8656.8000	↹1597.8000
2	16:27:15	98.23%	0.3373	40.3380	↹3686.7000	3637.6000	3654.8000	↹8620.6000	↹1591.2000
3	16:27:54	98.16%	0.3775	41.5050	↹3717.6000	3615.5000	3710.1000	↹8662.1000	↹1604.5000
4	16:28:34	98.45%	0.3740	40.4340	↹3638.6000	3578.4000	3664.6000	↹8472.2000	1627.9000
5	16:29:14	98.28%	0.3514	39.1920	↹3582.8000	3574.4000	3625.1000	↹8520.9000	↹1534.9000
x		98.17%	0.3641	40.4170	↹3665.2000	3602.7000	3663.2000	↹8586.5000	↹1591.2000
%RSD		0.28	5.1904	2.0437	↹1.4906	0.7337	0.8329	↹0.9949	↹2.1638

Run	Time	44Ca	45Sc	47Ti	51V	52Cr	54Fe	55Mn	56Fe
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	16:26:35	7054.8000	98.48%	16.8180	15.3070	11.7770	8408.0000	↹439.8700	↹8611.3000
2	16:27:15	7072.5000	99.84%	16.9970	15.3090	11.5470	8211.2000	↹430.5800	↹8556.9000
3	16:27:54	7045.1000	99.27%	16.6450	15.4540	11.5990	8295.7000	↹437.8100	↹8638.0000
4	16:28:34	7029.2000	99.86%	16.2150	14.6160	11.2350	8180.4000	↹430.1900	↹8451.1000
5	16:29:14	6955.9000	99.87%	16.2170	14.9850	11.3950	8165.7000	↹425.7300	↹8495.9000
x		7031.5000	99.46%	16.5780	15.1340	11.5110	8252.2000	↹432.8400	↹8550.6000
%RSD		0.6412	0.61	2.1315	2.2254	1.7884	1.2192	↹1.3512	↹0.9107

Run	Time	57Fe	59Co	60Ni	63Cu	65Cu	66Zn	75As	78Se
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	16:26:35	8160.6000	3.3877	6.9261	19.9390	20.1210	144.8600	3.2582	0.1250
2	16:27:15	8211.7000	3.3542	6.7157	19.8720	20.3730	143.1200	3.2896	-0.2064
3	16:27:54	8147.2000	3.2665	6.8739	20.1930	20.7810	144.2400	3.0513	-0.4668
4	16:28:34	8040.2000	3.2523	6.6163	19.7800	20.2270	141.7300	3.1657	-0.2621
5	16:29:14	8135.6000	3.2438	6.4908	19.7410	19.8780	141.1000	3.0581	-0.0549
x		8139.1000	3.3009	6.7246	19.9050	20.2760	143.0100	3.1646	-0.1730
%RSD		0.7672	1.9858	2.6744	0.8976	1.6537	1.1181	3.4819	128.6200

Run	Time	82Se	83Kr	89Y	94Mo	95Mo	96Mo	97Mo	98Mo
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	16:26:35	0.3061	-0.4630	96.53%	0.0000	0.0000	0.0000	0.0000	0.0000
2	16:27:15	0.4252	-0.2020	95.97%	0.0000	0.0000	0.0000	0.0000	0.0000
3	16:27:54	0.3351	0.0826	96.48%	0.0000	0.0000	0.0000	0.0000	0.0000
4	16:28:34	0.4074	0.3746	96.64%	0.0000	0.0000	0.0000	0.0000	0.0000
5	16:29:14	0.3934	-0.1674	96.51%	0.0000	0.0000	0.0000	0.0000	0.0000
x		0.3735	-0.0750	96.43%	0.0000	0.0000	0.0000	0.0000	0.0000
%RSD		13.5460	422.6300	0.27	0.0000	0.0000	0.0000	0.0000	0.0000

Run	Time	103Rh	107Ag	108Mo O	109Ag	111Cd	115In	118Sn	121Sb
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	16:26:35	95.72%	0.1533	0.6216	0.1502	0.9246	0.0000	0.0000	0.1618
2	16:27:15	95.02%	0.1502	0.7508	0.1477	0.8576	0.0000	0.0000	0.1684
3	16:27:54	95.93%	0.1618	0.9795	0.1538	0.9664	0.0000	0.0000	0.1703
4	16:28:34	95.54%	0.1485	0.2573	0.1561	0.9232	0.0000	0.0000	0.1959
5	16:29:14	96.15%	0.1401	0.0551	0.1368	0.8900	0.0000	0.0000	0.1596
x		95.67%	0.1507	0.5329	0.1489	0.9124	0.0000	0.0000	0.1712
%RSD		0.45	5.2180	70.1520	5.0379	4.4848	0.0000	0.0000	8.4901

Run	Time	135Ba	137Ba	159Tb	203Tl	205Tl	206Pb	207Pb	208Pb
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	16:26:35	81.2610	82.8610	94.42%	0.0975	0.0968	79.0130	72.2860	74.4970
2	16:27:15	80.1040	83.1420	93.85%	0.0943	0.0962	78.1970	72.3290	74.5850
3	16:27:54	81.1280	82.6630	95.06%	0.1028	0.0965	79.4160	73.3830	75.0090
4	16:28:34	80.1180	82.3880	94.72%	0.1018	0.1014	78.2910	72.4940	74.0630
5	16:29:14	80.1400	80.7230	95.63%	0.0829	0.0945	77.8080	70.8340	73.2650
x		80.5500	82.3550	94.74%	0.0959	0.0971	78.5450	72.2650	74.2840
%RSD		0.7329	1.1577	0.71	8.3589	2.6472	0.8314	1.2672	0.8900

Run	Time	209Bi	220Bkg
		ug/L	ug/L
1	16:26:35	94.11%	0.0370
2	16:27:15	94.42%	-0.5383
3	16:27:54	94.39%	-0.5383
4	16:28:34	94.48%	0.0347
5	16:29:14	94.03%	-0.5383
x		94.29%	-0.3087
%RSD		0.21	101.8800

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na	24Mg	25Mg	26Mg	27Al	39K
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	16:30:56	99.14%	0.4235	48.9380	┬4894.5000	4800.4000	4899.3000	┬10254.0000	┬1761.2000
2	16:31:36	99.75%	0.4025	50.2160	┬4882.4000	4868.6000	4856.4000	┬10270.0000	┬1757.9000
3	16:32:15	99.22%	0.3839	50.1510	┬4905.2000	4806.9000	4966.6000	┬10391.0000	┬1813.9000
4	16:32:55	100.35%	0.3566	49.6630	┬4786.9000	4690.2000	4801.7000	┬9999.3000	┬1791.6000
5	16:33:35	100.81%	0.3927	45.9830	┬4675.2000	4596.3000	4670.4000	┬9867.3000	┬1677.8000
X		99.85%	0.3919	48.9900	┬4828.9000	4752.5000	4838.9000	┬10156.0000	┬1760.5000
%RSD		0.72	6.2738	3.5865	┬2.0282	2.2812	2.3118	┬2.1222	┬2.9335

Run	Time	44Ca	45Sc	47Ti	51V	52Cr	54Fe	55Mn	56Fe
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	16:30:56	9015.2000	100.68%	18.9900	17.5930	13.2850	9566.0000	┬472.7700	┬9871.1000
2	16:31:36	9103.5000	100.34%	19.1070	17.9210	13.3160	9610.0000	┬475.8300	┬10004.0000
3	16:32:15	9176.4000	100.38%	18.7130	17.5810	13.3000	9742.5000	┬479.2500	┬9945.7000
4	16:32:55	8916.8000	100.92%	18.1740	17.6370	12.8790	9429.6000	┬466.2600	┬9698.6000
5	16:33:35	8790.0000	100.83%	18.4480	17.3200	12.9570	9237.6000	┬459.6300	┬9573.0000
X		9000.4000	100.63%	18.6860	17.6100	13.1470	9517.1000	┬470.7500	┬9818.6000
%RSD		1.6948	0.26	2.0544	1.2133	1.6066	2.0183	┬1.6658	┬1.8232

Run	Time	57Fe	59Co	60Ni	63Cu	65Cu	66Zn	75As	78Se
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	16:30:56	9428.8000	3.6999	8.3167	20.8090	21.4710	154.8700	3.4737	-0.4683
2	16:31:36	9416.0000	3.7919	7.9332	21.2580	21.5610	157.1400	3.5757	-0.2442
3	16:32:15	9464.6000	3.8854	8.5532	21.4240	21.8220	159.4700	3.5738	-0.3647
4	16:32:55	9229.1000	3.6607	7.8718	20.9980	20.9200	153.8900	3.6853	-0.6158
5	16:33:35	9111.2000	3.7577	8.1213	20.6760	20.9530	152.1000	3.3548	-0.1800
X		9329.9000	3.7591	8.1592	21.0330	21.3450	155.5000	3.5327	-0.3746
%RSD		1.6369	2.3116	3.4399	1.4705	1.8517	1.8474	3.5222	46.6050

Run	Time	82Se	83Kr	89Y	94Mo	95Mo	96Mo	97Mo	98Mo
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	16:30:56	0.4213	-0.9745	96.76%	0.0000	0.0000	0.0000	0.0000	0.0000
2	16:31:36	0.2604	-0.9117	96.76%	0.0000	0.0000	0.0000	0.0000	0.0000
3	16:32:15	0.6560	-0.3023	96.72%	0.0000	0.0000	0.0000	0.0000	0.0000
4	16:32:55	0.5936	-0.6950	97.29%	0.0000	0.0000	0.0000	0.0000	0.0000
5	16:33:35	0.5811	-0.6792	96.93%	0.0000	0.0000	0.0000	0.0000	0.0000
X		0.5025	-0.7125	96.89%	0.0000	0.0000	0.0000	0.0000	0.0000
%RSD		31.9740	36.9970	0.24	0.0000	0.0000	0.0000	0.0000	0.0000

Run	Time	103Rh	107Ag	108Mo O	109Ag	111Cd	115In	118Sn	121Sb
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	16:30:56	93.99%	0.1289	-0.0059	0.1328	0.8183	0.0000	0.0000	0.1884
2	16:31:36	95.17%	0.1503	0.0642	0.1421	0.7523	0.0000	0.0000	0.1528
3	16:32:15	95.20%	0.1515	-0.1322	0.1397	0.7578	0.0000	0.0000	0.1746
4	16:32:55	96.03%	0.1490	-0.1993	0.1516	0.7531	0.0000	0.0000	0.1578
5	16:33:35	95.64%	0.1364	0.1217	0.1273	0.6256	0.0000	0.0000	0.1570
X		95.21%	0.1432	-0.0303	0.1387	0.7414	0.0000	0.0000	0.1662
%RSD		0.80	7.0062	441.8300	6.6683	9.5009	0.0000	0.0000	9.0235

Run	Time	135Ba	137Ba	159Tb	203Tl	205Tl	206Pb	207Pb	208Pb
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	16:30:56	93.0180	96.8580	93.00%	0.0892	0.1063	81.1480	73.0610	76.0860
2	16:31:36	92.4620	96.2070	93.94%	0.1115	0.1016	80.3180	73.6290	75.8520
3	16:32:15	93.7220	95.2390	93.54%	0.1137	0.1134	80.7230	74.5670	76.4870
4	16:32:55	92.8890	94.7470	93.49%	0.1148	0.1098	79.1180	73.3120	75.0900
5	16:33:35	90.2510	92.3180	93.18%	0.1033	0.1068	77.2030	70.9110	72.6490
X		92.4690	95.0740	93.43%	0.1065	0.1076	79.7020	73.0960	75.2330
%RSD		1.4273	1.8365	0.39	10.0070	4.0538	1.9935	1.8444	2.0353

Run	Time	209Bi	220Bkg
		ug/L	ug/L
1	16:30:56	92.57%	0.0465
2	16:31:36	92.66%	0.0460
3	16:32:15	93.66%	-0.5383
4	16:32:55	93.54%	-0.5383
5	16:33:35	93.86%	0.0385
X		93.26%	-0.1891
%RSD		0.64	168.5500

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na	24Mg	25Mg	26Mg	27Al	39K
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	16:35:15	96.82%	10.2200	51.3650	↹4869.4000	4729.7000	4853.0000	↹10726.0000	↹1759.5000
2	16:35:55	99.16%	10.3640	52.5320	↹4841.3000	4820.6000	4883.1000	↹10852.0000	↹1808.4000
3	16:36:34	100.16%	10.4150	50.5310	↹4985.8000	4843.9000	4916.7000	↹10943.0000	↹1804.4000
4	16:37:14	99.48%	10.3950	50.5500	↹4949.6000	4929.0000	4923.2000	↹10871.0000	↹1822.0000
5	16:37:54	100.75%	10.3680	50.5260	↹4862.8000	4830.8000	4811.3000	↹10759.0000	↹1746.3000
X		99.27%	10.3530	51.1010	↹4901.8000	4830.8000	4877.5000	↹10830.0000	↹1788.1000
%RSD		1.51	0.7417	1.7160	↹1.2731	1.4688	0.9528	↹0.8086	↹1.8522

Run	Time	44Ca	45Sc	47Ti	51V	52Cr	54Fe	55Mn	56Fe
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	16:35:15	9086.9000	99.05%	19.1550	117.6100	50.0950	9501.6000	↹576.1600	↹9702.2000
2	16:35:55	9104.4000	98.91%	19.7520	119.0800	50.5230	9612.9000	↹580.9900	↹9874.2000
3	16:36:34	9228.5000	100.47%	18.8880	119.9400	51.3910	9591.6000	↹585.0100	↹9835.2000
4	16:37:14	9202.5000	100.56%	19.6080	119.4500	50.2980	9567.3000	↹580.1600	↹9739.0000
5	16:37:54	9123.4000	101.45%	19.7170	118.8200	50.7330	9648.7000	↹579.8400	↹9841.5000
X		9149.1000	100.09%	19.4240	118.9800	50.6080	9584.4000	↹580.4300	↹9798.4000
%RSD		0.6846	1.08	1.9728	0.7315	0.9862	0.5749	↹0.5445	↹0.7525

Run	Time	57Fe	59Co	60Ni	63Cu	65Cu	66Zn	75As	78Se
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	16:35:15	9290.7000	96.5980	102.0900	67.9750	68.3510	241.5000	10.3330	16.0720
2	16:35:55	9433.7000	97.8960	104.1500	69.0270	69.0990	245.2900	10.6240	16.5800
3	16:36:34	9358.7000	98.0640	104.3900	68.9330	70.2840	251.2800	10.5810	16.5650
4	16:37:14	9287.2000	98.4580	104.3500	69.5700	70.4520	247.7300	10.3200	16.0480
5	16:37:54	9281.4000	97.5440	103.9700	69.3600	69.0410	247.0900	10.8610	16.7580
X		9330.3000	97.7120	103.7900	68.9730	69.4450	246.5800	10.5440	16.4050
%RSD		0.7051	0.7208	0.9326	0.8900	1.2876	1.4499	2.1390	1.9729

Run	Time	82Se	83Kr	89Y	94Mo	95Mo	96Mo	97Mo	98Mo
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	16:35:15	17.6520	-1.1263	94.70%	0.0000	0.0000	0.0000	0.0000	0.0000
2	16:35:55	17.6560	0.2312	96.02%	0.0000	0.0000	0.0000	0.0000	0.0000
3	16:36:34	16.7810	-0.5777	96.06%	0.0000	0.0000	0.0000	0.0000	0.0000
4	16:37:14	16.7340	0.6551	96.96%	0.0000	0.0000	0.0000	0.0000	0.0000
5	16:37:54	17.8830	0.8342	95.82%	0.0000	0.0000	0.0000	0.0000	0.0000
X		17.3410	0.0033	95.91%	0.0000	0.0000	0.0000	0.0000	0.0000
%RSD		3.1215	25445.0000	0.85	0.0000	0.0000	0.0000	0.0000	0.0000

Run	Time	103Rh	107Ag	108Mo O	109Ag	111Cd	115In	118Sn	121Sb
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	16:35:15	93.30%	9.6085	-0.4478	9.6683	9.8836	0.0000	0.0000	5.6317
2	16:35:55	94.15%	9.6710	-1.1244	9.6307	10.0980	0.0000	0.0000	5.6979
3	16:36:34	94.58%	9.9641	-0.1744	9.9463	10.2090	0.0000	0.0000	5.6521
4	16:37:14	95.07%	9.9756	0.0494	10.0320	9.9486	0.0000	0.0000	5.7615
5	16:37:54	94.18%	9.6323	0.4128	9.6849	10.4470	0.0000	0.0000	5.5053
X		94.26%	9.7703	-0.2569	9.7924	10.1170	0.0000	0.0000	5.6497
%RSD		0.69	1.8788	225.1600	1.8692	2.2115	0.0000	0.0000	1.6795

Run	Time	135Ba	137Ba	159Tb	203Tl	205Tl	206Pb	207Pb	208Pb
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	16:35:15	463.2900	477.3000	90.32%	9.5429	9.3485	82.5320	76.3490	78.4060
2	16:35:55	462.5500	478.8500	91.76%	9.6947	9.5757	84.2230	77.6480	79.7960
3	16:36:34	471.6900	485.9100	91.20%	9.8387	9.7095	84.8710	77.4770	80.1740
4	16:37:14	473.8100	483.1900	91.55%	9.8376	9.6601	84.8480	78.3830	80.2170
5	16:37:54	468.9500	481.0600	92.05%	9.8074	9.5820	84.2010	77.3880	79.4430
X		468.0600	481.2600	91.38%	9.7443	9.5751	84.1350	77.4490	79.6070
%RSD		1.0697	0.7113	0.73	1.3041	1.4458	1.1326	0.9413	0.9315

Run	Time	209Bi	220Bkg
		ug/L	ug/L
1	16:35:15	91.10%	-0.5383
2	16:35:55	91.07%	0.0561
3	16:36:34	91.42%	-0.5383
4	16:37:14	91.60%	-0.5383
5	16:37:54	90.95%	0.0569
X		91.23%	-0.3004
%RSD		0.30	108.4700

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na	24Mg	25Mg	26Mg	27Al	39K
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	16:39:37	100.55%	0.4100	50.3400	↹4709.2000	4606.0000	4685.6000	↹10352.0000	↹1741.0000
2	16:40:16	100.22%	0.4210	50.3430	↹4807.9000	4692.5000	4720.0000	↹10484.0000	↹1801.4000
3	16:40:56	99.55%	0.4543	↹55.8570	↹4869.6000	4770.5000	4869.0000	↹10629.0000	↹1822.5000
4	16:41:36	101.94%	0.4379	50.6830	↹4850.7000	4693.1000	4824.7000	↹10431.0000	↹1796.8000
5	16:42:15	102.68%	0.4029	49.9230	↹4799.5000	4771.3000	4708.8000	↹10441.0000	↹1757.8000
X		100.99%	0.4252	↹51.4290	↹4807.4000	4706.7000	4761.6000	↹10467.0000	↹1783.9000
%RSD		1.27	4.9279	↹4.8416	↹1.2927	1.4556	1.6873	↹0.9737	↹1.8778

Run	Time	44Ca	45Sc	47Ti	51V	52Cr	54Fe	55Mn	56Fe
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	16:39:37	8769.6000	100.48%	19.6320	17.9290	13.4210	9437.2000	↹464.4600	↹9740.2000
2	16:40:16	8895.4000	100.85%	20.3560	17.9090	13.6710	9633.3000	↹469.5000	↹9885.2000
3	16:40:56	9004.3000	100.95%	21.0790	18.6470	13.8420	9749.7000	↹471.0900	↹10029.0000
4	16:41:36	8991.2000	102.11%	20.9210	18.6190	13.6160	9578.8000	↹473.5100	↹9906.0000
5	16:42:15	8848.0000	102.35%	20.3770	18.4980	13.7110	9721.7000	↹467.7100	↹9840.6000
X		8901.7000	101.35%	20.4730	18.3200	13.6520	9624.1000	↹469.2500	↹9880.3000
%RSD		1.1080	0.82	2.7825	2.0219	1.1245	1.2973	↹0.7293	↹1.0627

Run	Time	57Fe	59Co	60Ni	63Cu	65Cu	66Zn	75As	78Se
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	16:39:37	9229.0000	3.7583	8.2016	21.2110	21.3400	154.7200	3.4469	-0.7095
2	16:40:16	9330.1000	3.7574	8.4404	21.4480	21.8330	158.5400	3.5539	-0.1873
3	16:40:56	9552.3000	3.9347	8.3048	21.6890	21.9770	156.6300	3.5726	-0.2758
4	16:41:36	9382.7000	3.8358	8.8160	21.2560	22.0890	160.7400	3.7562	-0.2979
5	16:42:15	9435.7000	3.8866	8.4597	21.4460	21.8190	157.3700	3.4783	-0.1411
X		9386.0000	3.8346	8.4445	21.4100	21.8120	157.6000	3.5616	-0.3223
%RSD		1.2819	2.0412	2.7568	0.8864	1.3113	1.4190	3.3859	70.0250

Run	Time	82Se	83Kr	89Y	94Mo	95Mo	96Mo	97Mo	98Mo
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	16:39:37	0.3512	-0.0812	95.91%	0.0000	0.0000	0.0000	0.0000	0.0000
2	16:40:16	0.5611	-0.4206	95.26%	0.0000	0.0000	0.0000	0.0000	0.0000
3	16:40:56	0.2761	0.6334	96.20%	0.0000	0.0000	0.0000	0.0000	0.0000
4	16:41:36	0.4520	-1.0207	96.20%	0.0000	0.0000	0.0000	0.0000	0.0000
5	16:42:15	0.4067	-0.3624	96.42%	0.0000	0.0000	0.0000	0.0000	0.0000
X		0.4094	-0.2503	96.00%	0.0000	0.0000	0.0000	0.0000	0.0000
%RSD		26.1980	240.0800	0.47	0.0000	0.0000	0.0000	0.0000	0.0000

Run	Time	103Rh	107Ag	108Mo O	109Ag	111Cd	115In	118Sn	121Sb
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	16:39:37	93.75%	0.1382	-0.2779	0.1323	0.6196	0.0000	0.0000	0.2141
2	16:40:16	94.15%	0.1379	0.3146	0.1456	0.6940	0.0000	0.0000	0.1799
3	16:40:56	94.24%	0.1397	0.0418	0.1466	0.6817	0.0000	0.0000	0.1716
4	16:41:36	94.71%	0.1489	-0.2202	0.1432	0.7252	0.0000	0.0000	0.1839
5	16:42:15	95.90%	0.1366	-0.0885	0.1314	0.5784	0.0000	0.0000	0.2005
X		94.55%	0.1403	-0.0460	0.1398	0.6597	0.0000	0.0000	0.1900
%RSD		0.87	3.5255	513.8600	5.3018	9.0222	0.0000	0.0000	8.9936

Run	Time	135Ba	137Ba	159Tb	203Tl	205Tl	206Pb	207Pb	208Pb
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	16:39:37	91.9590	94.4420	90.58%	0.1157	0.1119	77.3650	71.8740	73.4460
2	16:40:16	94.3490	96.9270	91.64%	0.1039	0.1159	79.0670	72.3010	74.1560
3	16:40:56	94.3650	98.3640	92.20%	0.1233	0.1224	78.8310	72.5770	74.6390
4	16:41:36	94.4780	96.4230	91.79%	0.1289	0.1166	80.0250	73.0980	75.6950
5	16:42:15	92.6780	95.7200	91.42%	0.1153	0.1151	79.2100	72.1470	74.7440
X		93.5660	96.3750	91.53%	0.1174	0.1164	78.9000	72.3990	74.5360
%RSD		1.2481	1.5060	0.65	8.0560	3.2710	1.2275	0.6434	1.1082

Run	Time	209Bi	220Bkg
		ug/L	ug/L
1	16:39:37	90.80%	-0.5383
2	16:40:16	91.66%	0.6429
3	16:40:56	91.51%	0.0533
4	16:41:36	90.84%	0.0576
5	16:42:15	90.96%	0.0568
X		91.16%	0.0545
%RSD		0.44	766.6300

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Run	Time	6Li	9Be	23Na	24Mg	25Mg	26Mg	27Al	39K
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	16:43:56	100.59%	0.1067	7.1518	943.4200	937.4800	943.3900	T2046.5000	331.8500
2	16:44:36	101.14%	0.0930	6.9764	964.2500	950.3900	947.7600	T2041.3000	338.4500
3	16:45:15	102.08%	0.0865	7.1700	966.3100	942.0400	956.4400	T2044.0000	336.5300
4	16:45:55	102.42%	0.1095	8.2947	958.1500	934.8700	951.2600	T2034.3000	T337.0700
5	16:46:35	102.41%	0.0873	7.1947	934.8900	913.5200	930.1700	T2004.0000	328.7900
x		101.73%	0.0966	7.3575	953.4100	935.6600	945.8100	T2034.0000	T334.5400
%RSD		0.81	11.2310	7.2160	1.4355	1.4652	1.0532	T0.8552	T1.2138

Run	Time	44Ca	45Sc	47Ti	51V	52Cr	54Fe	55Mn	56Fe
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	16:43:56	1765.7000	99.59%	3.7220	3.3778	2.5919	1869.4000	92.0230	T1961.7000
2	16:44:36	1756.4000	100.09%	3.6840	3.5993	2.6481	1891.8000	92.4150	T1968.5000
3	16:45:15	1771.7000	101.30%	4.2573	3.4784	2.6985	1889.8000	92.8350	T1984.5000
4	16:45:55	1786.3000	100.71%	3.6997	3.5185	2.6550	1872.6000	92.6790	T1972.2000
5	16:46:35	1756.4000	99.99%	3.7740	3.5815	2.6486	1862.5000	91.0340	T1944.2000
x		1767.3000	100.34%	3.8274	3.5111	2.6484	1877.2000	92.1970	T1966.2000
%RSD		0.7048	0.67	6.3415	2.5332	1.4313	0.6886	0.7802	T0.7550

Run	Time	57Fe	59Co	60Ni	63Cu	65Cu	66Zn	75As	78Se
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	16:43:56	1827.4000	0.7715	1.7693	4.3497	4.6739	33.4280	0.7658	-0.7343
2	16:44:36	1838.9000	0.7623	1.8348	4.4209	4.6845	33.4750	0.9838	-0.8837
3	16:45:15	1862.8000	0.7655	1.7707	4.4210	4.6212	33.1660	0.6804	-0.7836
4	16:45:55	1836.6000	0.7384	1.7632	4.3917	4.5795	33.3230	0.6909	-0.5990
5	16:46:35	1803.9000	0.7684	1.6633	4.2796	4.5149	31.9830	0.7860	-0.7210
x		1833.9000	0.7612	1.7603	4.3726	4.6148	33.0750	0.7814	-0.7443
%RSD		1.1592	1.7373	3.4968	1.3637	1.5172	1.8793	15.6290	13.8860

Run	Time	82Se	83Kr	89Y	94Mo	95Mo	96Mo	97Mo	98Mo
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	16:43:56	0.4375	-0.3201	93.33%	0.0000	0.0000	0.0000	0.0000	0.0000
2	16:44:36	0.4058	-0.6491	93.59%	0.0000	0.0000	0.0000	0.0000	0.0000
3	16:45:15	-0.0770	0.9347	93.10%	0.0000	0.0000	0.0000	0.0000	0.0000
4	16:45:55	-0.2872	-0.0986	93.75%	0.0000	0.0000	0.0000	0.0000	0.0000
5	16:46:35	0.1489	-0.7250	93.90%	0.0000	0.0000	0.0000	0.0000	0.0000
x		0.1256	-0.1716	93.53%	0.0000	0.0000	0.0000	0.0000	0.0000
%RSD		247.9000	389.2700	0.35	0.0000	0.0000	0.0000	0.0000	0.0000

Run	Time	103Rh	107Ag	108Mo O	109Ag	111Cd	115In	118Sn	121Sb
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	16:43:56	95.08%	0.0257	0.0908	0.0282	0.1833	0.0000	0.0000	0.0482
2	16:44:36	95.36%	0.0334	-0.1000	0.0290	0.1532	0.0000	0.0000	0.0495
3	16:45:15	95.43%	0.0271	0.4982	0.0400	0.1010	0.0000	0.0000	0.0479
4	16:45:55	95.93%	0.0444	-0.0202	0.0405	0.1986	0.0000	0.0000	0.0348
5	16:46:35	96.80%	0.0309	0.0109	0.0349	0.1411	0.0000	0.0000	0.0504
x		95.72%	0.0323	0.0959	0.0345	0.1554	0.0000	0.0000	0.0462
%RSD		0.71	23.0010	245.0000	16.9170	24.5340	0.0000	0.0000	13.9220

Run	Time	135Ba	137Ba	159Tb	203Tl	205Tl	206Pb	207Pb	208Pb
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	16:43:56	18.0520	18.6300	91.04%	0.0193	0.0206	15.7680	14.6290	14.8340
2	16:44:36	18.1310	19.1660	91.20%	0.0157	0.0179	15.5330	14.2430	14.7250
3	16:45:15	17.7130	18.3330	91.54%	0.0202	0.0175	15.7170	14.6860	14.9300
4	16:45:55	18.0460	18.9220	91.80%	0.0234	0.0312	15.8150	14.5360	14.8440
5	16:46:35	17.4920	18.3900	92.08%	0.0234	0.0230	15.5550	14.0090	14.4780
x		17.8870	18.6880	91.53%	0.0204	0.0220	15.6780	14.4200	14.7620
%RSD		1.5280	1.8954	0.46	15.6390	25.2770	0.8104	1.9842	1.1849

Run	Time	209Bi	220Bkg
		ug/L	ug/L
1	16:43:56	92.25%	0.0485
2	16:44:36	92.43%	-0.5383
3	16:45:15	92.40%	1.8053
4	16:45:55	92.89%	-0.5383
5	16:46:35	92.79%	-0.5383
x		92.55%	0.0478
%RSD		0.30	2124.3000

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Run	Time	6Li	9Be	23Na	24Mg	25Mg	26Mg	27Al	39K
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	16:48:16	102.18%	9.9847	T4809.9000	T9498.5000	9359.0000	T9277.4000	T10216.0000	T6273.0000
2	16:48:55	101.03%	10.1910	T4878.3000	T9600.3000	9459.7000	9559.6000	T10241.0000	T6260.4000
3	16:49:35	100.22%	10.4930	T4908.5000	T9655.5000	9562.4000	T9480.3000	T10320.0000	T6309.8000
4	16:50:15	101.73%	10.3430	T4838.9000	T9505.6000	9385.5000	9511.2000	T10218.0000	T6286.3000
5	16:50:54	101.52%	9.8834	T4777.0000	T9429.0000	9345.6000	9459.0000	T10142.0000	T6227.1000
X		101.34%	10.1790	T4842.5000	T9537.8000	9422.4000	T9457.5000	T10227.0000	T6271.3000
%RSD		0.74	2.4615	T1.0836	T0.9404	0.9532	T1.1373	T0.6216	T0.4904

Run	Time	44Ca	45Sc	47Ti	51V	52Cr	54Fe	55Mn	56Fe
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	16:48:16	13403.0000	99.76%	20.5510	68.1890	31.1470	11247.0000	T471.5200	T11554.0000
2	16:48:55	13331.0000	101.36%	20.1230	67.2850	31.0530	11248.0000	T472.4400	T11437.0000
3	16:49:35	13406.0000	101.52%	19.3320	67.8350	31.8420	11324.0000	T469.3200	T11469.0000
4	16:50:15	13375.0000	101.32%	19.1670	65.9480	30.3160	11025.0000	T458.7900	T11140.0000
5	16:50:54	13200.0000	100.97%	18.7340	66.1820	30.8470	11094.0000	T465.6300	T11314.0000
X		13343.0000	100.99%	19.5820	67.0880	31.0410	11188.0000	T467.5400	T11383.0000
%RSD		0.6403	0.71	3.7750	1.4774	1.7764	1.1052	T1.1872	T1.4113

Run	Time	57Fe	59Co	60Ni	63Cu	65Cu	66Zn	75As	78Se
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	16:48:16	11032.0000	12.6770	17.2110	39.4650	39.4150	169.6000	12.0890	42.5550
2	16:48:55	10954.0000	12.6360	16.8830	39.0590	39.8470	170.2600	11.4590	44.3350
3	16:49:35	10872.0000	12.6290	17.6890	38.9470	40.1530	170.4500	12.3790	42.6110
4	16:50:15	10631.0000	12.3780	16.8000	38.0920	38.3090	164.1100	10.6420	39.9960
5	16:50:54	10844.0000	12.6100	17.6010	38.7720	39.9450	166.9300	11.4260	43.0050
X		10867.0000	12.5860	17.2370	38.8670	39.5340	168.2700	11.5990	42.5000
%RSD		1.3876	0.9432	2.3463	1.2929	1.8614	1.6171	5.8059	3.7035

Run	Time	82Se	83Kr	89Y	94Mo	95Mo	96Mo	97Mo	98Mo
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	16:48:16	43.2980	-0.5666	94.56%	0.0000	0.0000	0.0000	0.0000	0.0000
2	16:48:55	43.0840	0.3365	94.84%	0.0000	0.0000	0.0000	0.0000	0.0000
3	16:49:35	44.0220	0.4499	95.00%	0.0000	0.0000	0.0000	0.0000	0.0000
4	16:50:15	39.4870	-0.9327	T104.56%	0.0000	0.0000	0.0000	0.0000	0.0000
5	16:50:54	41.7330	-0.4046	94.90%	0.0000	0.0000	0.0000	0.0000	0.0000
X		42.3250	-0.2235	T96.77%	0.0000	0.0000	0.0000	0.0000	0.0000
%RSD		4.2277	266.6200	T4.50	0.0000	0.0000	0.0000	0.0000	0.0000

Run	Time	103Rh	107Ag	108Mo O	109Ag	111Cd	115In	118Sn	121Sb
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	16:48:16	92.64%	9.6571	0.6774	9.6943	9.6471	0.0000	0.0000	18.1440
2	16:48:55	92.99%	9.9293	-0.3142	9.8980	9.8960	0.0000	0.0000	18.3330
3	16:49:35	92.61%	10.0260	-0.1212	10.0990	9.9467	0.0000	0.0000	18.6300
4	16:50:15	92.77%	10.0800	0.5633	10.0400	9.5765	0.0000	0.0000	18.5540
5	16:50:54	93.33%	9.6449	0.3596	9.5692	9.3879	0.0000	0.0000	18.2800
X		92.87%	9.8673	0.2330	9.8601	9.6909	0.0000	0.0000	18.3880
%RSD		0.32	2.0747	185.5600	2.2843	2.3887	0.0000	0.0000	1.0890

Run	Time	135Ba	137Ba	159Tb	203Tl	205Tl	206Pb	207Pb	208Pb
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	16:48:16	182.6000	185.8300	89.70%	9.5348	9.3115	88.9240	83.3480	84.7250
2	16:48:55	180.9300	186.6300	90.10%	9.5372	9.4975	89.2110	82.5490	84.7720
3	16:49:35	185.5000	191.9600	89.87%	9.6426	9.5972	90.4920	82.7570	84.5180
4	16:50:15	180.9600	188.4900	90.25%	9.6884	9.4100	88.2120	82.4540	84.2920
5	16:50:54	179.9400	186.0100	90.06%	9.4184	9.3993	87.6190	81.9380	83.6320
X		181.9900	187.7800	90.00%	9.5643	9.4431	88.8920	82.6090	84.3880
%RSD		1.1998	1.3653	0.24	1.1020	1.1483	1.2253	0.6190	0.5489

Run	Time	209Bi	220Bkg
		ug/L	ug/L
1	16:48:16	87.57%	-0.5383
2	16:48:55	88.66%	0.0723
3	16:49:35	88.56%	0.0730
4	16:50:15	88.65%	-0.5383
5	16:50:54	88.19%	0.0755
X		88.33%	-0.1712
%RSD		0.52	195.8200

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na	24Mg	25Mg	26Mg	27Al	39K
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	16:52:35	100.17%	0.4713	46.0050	T 1650.3000	1624.6000	1633.6000	T 12025.0000	T 1911.3000
2	16:53:15	100.27%	0.4686	46.2700	T 1655.9000	1644.9000	1630.3000	T 12048.0000	T 1940.0000
3	16:53:55	99.64%	0.4573	46.6070	T 1668.8000	1631.1000	1620.2000	T 12130.0000	T 1931.0000
4	16:54:35	101.31%	0.4115	44.2890	T 1627.0000	1572.6000	1600.7000	T 11830.0000	T 1911.4000
5	16:55:14	102.26%	0.4420	44.1960	T 1603.9000	1554.8000	1581.8000	T 11681.0000	T 1880.1000
x		100.73%	0.4501	45.4730	T 1641.2000	1605.6000	1613.4000	T 11943.0000	T 1914.8000
%RSD		1.04	5.4395	2.5162	T 1.5696	2.4563	1.3515	T 1.5335	T 1.2032

Run	Time	44Ca	45Sc	47Ti	51V	52Cr	54Fe	55Mn	56Fe
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	16:52:35	3596.3000	100.30%	21.3260	21.9980	15.9970	10830.0000	345.3100	T 11064.0000
2	16:53:15	3649.3000	100.27%	21.7020	22.1890	16.0120	10921.0000	349.5600	T 11165.0000
3	16:53:55	3660.3000	100.72%	21.5430	22.5380	16.1180	10915.0000	347.4000	T 11179.0000
4	16:54:35	3582.6000	102.75%	20.6840	21.4680	15.5660	10659.0000	339.6900	T 10878.0000
5	16:55:14	3562.6000	101.44%	21.2310	21.4720	15.6970	10630.0000	338.8600	T 10837.0000
x		3610.2000	101.10%	21.2970	21.9330	15.8780	10791.0000	344.1700	T 11024.0000
%RSD		1.1807	1.03	1.8268	2.1202	1.4770	1.2900	1.3711	T 1.4461

Run	Time	57Fe	59Co	60Ni	63Cu	65Cu	66Zn	75As	78Se
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	16:52:35	10461.0000	4.7880	11.2510	229.5800	228.9400	328.9700	2.9959	-0.2697
2	16:53:15	10610.0000	4.7815	11.1150	231.4400	229.9000	325.1100	2.9458	-0.5814
3	16:53:55	10570.0000	4.8374	11.6450	230.9200	234.7300	326.2000	3.0648	-0.7129
4	16:54:35	10436.0000	4.7665	10.8870	227.8800	227.9300	323.6300	2.9449	-0.6549
5	16:55:14	10333.0000	4.5871	10.9070	225.2600	226.4800	319.7000	2.9670	-0.3534
x		10482.0000	4.7521	11.1610	229.0200	229.6000	324.7200	2.9837	-0.5145
%RSD		1.0540	2.0198	2.7765	1.0962	1.3656	1.0533	1.6709	37.5720

Run	Time	82Se	83Kr	89Y	94Mo	95Mo	96Mo	97Mo	98Mo
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	16:52:35	0.1622	0.5461	94.55%	0.0000	0.0000	0.0000	0.0000	0.0000
2	16:53:15	0.3993	0.2737	95.02%	0.0000	0.0000	0.0000	0.0000	0.0000
3	16:53:55	0.5035	0.5223	94.92%	0.0000	0.0000	0.0000	0.0000	0.0000
4	16:54:35	0.6281	-0.5325	96.09%	0.0000	0.0000	0.0000	0.0000	0.0000
5	16:55:14	0.1588	0.1514	96.01%	0.0000	0.0000	0.0000	0.0000	0.0000
x		0.3703	0.1922	95.32%	0.0000	0.0000	0.0000	0.0000	0.0000
%RSD		56.1720	227.9400	0.73	0.0000	0.0000	0.0000	0.0000	0.0000

Run	Time	103Rh	107Ag	108Mo O	109Ag	111Cd	115In	118Sn	121Sb
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	16:52:35	93.99%	0.1940	0.1229	0.2156	0.9345	0.0000	0.0000	0.2616
2	16:53:15	93.10%	0.2162	-0.1831	0.2154	1.0621	0.0000	0.0000	0.2462
3	16:53:55	93.59%	0.1954	-0.1542	0.2128	0.9958	0.0000	0.0000	0.2511
4	16:54:35	94.40%	0.1991	0.5434	0.2192	1.0154	0.0000	0.0000	0.2461
5	16:55:14	94.39%	0.2021	-0.3979	0.2029	0.9729	0.0000	0.0000	0.2153
x		93.89%	0.2014	-0.0137	0.2132	0.9962	0.0000	0.0000	0.2441
%RSD		0.59	4.4178	2635.9000	2.8945	4.7765	0.0000	0.0000	7.0782

Run	Time	135Ba	137Ba	159Tb	203Tl	205Tl	206Pb	207Pb	208Pb
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	16:52:35	122.4200	129.3700	89.76%	0.1226	0.1327	106.4700	97.2810	99.9120
2	16:53:15	124.1300	128.4500	89.52%	0.1372	0.1408	106.0100	97.5910	100.2600
3	16:53:55	124.7300	128.7300	90.86%	0.1418	0.1248	107.0600	97.3400	100.7000
4	16:54:35	123.2000	127.9800	91.60%	0.1352	0.1355	104.9500	95.7060	99.2200
5	16:55:14	123.3600	126.7100	90.69%	0.1231	0.1286	104.0200	94.4280	97.6090
x		123.5700	128.2500	90.49%	0.1320	0.1325	105.7000	96.4690	99.5390
%RSD		0.7170	0.7776	0.94	6.5538	4.6539	1.1493	1.4121	1.2119

Run	Time	209Bi	220Bkg
		ug/L	ug/L
1	16:52:35	89.23%	-0.5383
2	16:53:15	89.41%	-0.5383
3	16:53:55	89.49%	-0.5383
4	16:54:35	91.30%	-0.5383
5	16:55:14	91.16%	-0.5383
x		90.12%	-0.5383
%RSD		1.13	0.0000

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na	24Mg	25Mg	26Mg	27Al	39K
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	16:56:56	99.41%	0.6831	↹62.3330	↹1607.3000	1555.1000	1553.3000	↹14313.0000	↹2614.4000
2	16:57:35	100.23%	0.7373	60.9590	↹1640.1000	1582.4000	1582.6000	↹14633.0000	↹2639.6000
3	16:58:15	100.79%	0.7093	62.8220	↹1649.4000	1611.7000	1604.1000	↹14756.0000	↹2648.5000
4	16:58:54	100.85%	0.7530	61.8310	↹1644.5000	1587.3000	1596.1000	↹14618.0000	↹2670.9000
5	16:59:34	101.66%	0.7470	59.5830	↹1622.5000	1565.2000	1563.1000	↹14375.0000	↹2599.9000
X		100.59%	0.7259	↹61.5060	↹1632.8000	1580.4000	1579.8000	↹14539.0000	↹2634.7000
%RSD		0.83	4.0270	↹2.0754	↹1.0711	1.3802	1.3582	↹1.2890	↹1.0640

Run	Time	44Ca	45Sc	47Ti	51V	52Cr	54Fe	55Mn	56Fe
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	16:56:56	2522.1000	100.58%	19.7490	28.8220	21.0680	15012.0000	↹468.0900	↹15262.0000
2	16:57:35	2553.4000	100.39%	19.3520	29.1310	21.7180	15264.0000	↹475.3800	↹15454.0000
3	16:58:15	2611.2000	100.91%	19.3990	29.2960	21.9450	15282.0000	↹474.5900	↹15422.0000
4	16:58:54	2562.3000	100.92%	19.5010	28.9080	21.5060	15189.0000	↹473.0900	↹15225.0000
5	16:59:34	2530.0000	101.31%	19.3680	28.6610	21.5000	15025.0000	↹467.2700	↹15182.0000
X		2555.8000	100.82%	19.4740	28.9630	21.5470	15154.0000	↹471.6800	↹15309.0000
%RSD		1.3721	0.35	0.8436	0.8679	1.5054	0.8517	↹0.7969	↹0.7962

Run	Time	57Fe	59Co	60Ni	63Cu	65Cu	66Zn	75As	78Se
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	16:56:56	14393.0000	7.6232	13.7130	61.0230	62.5970	149.8700	4.6613	-0.8398
2	16:57:35	14673.0000	7.8533	13.2810	61.6700	62.9350	152.5200	4.7016	-0.7364
3	16:58:15	14651.0000	7.8306	13.4770	61.1200	63.0790	152.5900	4.8716	-0.5522
4	16:58:54	14618.0000	7.7485	13.1120	61.2750	62.1790	151.8900	4.8021	-0.8680
5	16:59:34	14478.0000	7.5880	12.7490	59.7950	61.6560	149.4000	4.7709	-0.5553
X		14563.0000	7.7287	13.2670	60.9770	62.4890	151.2500	4.7615	-0.7103
%RSD		0.8341	1.5479	2.7582	1.1563	0.9297	1.0006	1.7411	21.2760

Run	Time	82Se	83Kr	89Y	94Mo	95Mo	96Mo	97Mo	98Mo
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	16:56:56	0.6461	0.1627	95.92%	0.0000	0.0000	0.0000	0.0000	0.0000
2	16:57:35	0.2340	0.6736	95.57%	0.0000	0.0000	0.0000	0.0000	0.0000
3	16:58:15	0.3653	0.5857	95.97%	0.0000	0.0000	0.0000	0.0000	0.0000
4	16:58:54	0.4677	-0.8916	96.20%	0.0000	0.0000	0.0000	0.0000	0.0000
5	16:59:34	0.3665	-0.3188	95.64%	0.0000	0.0000	0.0000	0.0000	0.0000
X		0.4159	0.0423	95.86%	0.0000	0.0000	0.0000	0.0000	0.0000
%RSD		36.8150	1545.0000	0.27	0.0000	0.0000	0.0000	0.0000	0.0000

Run	Time	103Rh	107Ag	108Mo O	109Ag	111Cd	115In	118Sn	121Sb
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	16:56:56	93.04%	0.0861	0.1657	0.0801	0.5639	0.0000	0.0000	0.1670
2	16:57:35	92.94%	0.0758	0.1752	0.0811	0.5599	0.0000	0.0000	0.1821
3	16:58:15	92.81%	0.0884	-0.4113	0.0883	0.5947	0.0000	0.0000	0.1865
4	16:58:54	93.13%	0.0720	-0.0825	0.0792	0.5835	0.0000	0.0000	0.1637
5	16:59:34	92.84%	0.0783	0.0643	0.0715	0.6497	0.0000	0.0000	0.1739
X		92.95%	0.0801	-0.0177	0.0800	0.5903	0.0000	0.0000	0.1746
%RSD		0.14	8.6209	1371.4000	7.4692	6.1144	0.0000	0.0000	5.5539

Run	Time	135Ba	137Ba	159Tb	203Tl	205Tl	206Pb	207Pb	208Pb
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	16:56:56	115.3400	117.9700	90.17%	0.1263	0.1247	88.8460	81.6290	83.9290
2	16:57:35	117.8300	119.9300	89.23%	0.1398	0.1455	89.6070	81.6090	84.3070
3	16:58:15	118.2600	119.8900	89.25%	0.1418	0.1401	91.0610	83.1050	85.2990
4	16:58:54	118.0500	120.2400	89.61%	0.1369	0.1358	90.4150	83.0810	85.1140
5	16:59:34	115.9700	120.2600	88.96%	0.1344	0.1356	88.8020	81.2430	83.6230
X		117.0900	119.6600	89.44%	0.1358	0.1364	89.7460	82.1330	84.4540
%RSD		1.1434	0.8012	0.52	4.4379	5.6284	1.0996	1.0828	0.8655

Run	Time	209Bi	220Bkg
		ug/L	ug/L
1	16:56:56	89.10%	-0.5383
2	16:57:35	89.38%	-0.5383
3	16:58:15	89.12%	0.0692
4	16:58:54	88.92%	-0.5383
5	16:59:34	89.31%	-0.5383
X		89.17%	-0.4168
%RSD		0.21	65.1790

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na	24Mg	25Mg	26Mg	27Al	39K
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	17:01:16	99.44%	0.7715	↹65.9750	↹1724.6000	1687.9000	1687.9000	↹15302.0000	↹2736.8000
2	17:01:55	101.31%	0.7547	66.3770	↹1767.6000	1696.0000	1737.5000	↹15442.0000	↹2766.4000
3	17:02:35	101.64%	0.7563	↹68.3240	↹1779.4000	1712.5000	1730.8000	↹15456.0000	↹2764.5000
4	17:03:15	101.60%	0.8147	↹67.0770	↹1771.4000	1704.2000	1729.4000	↹15376.0000	↹2773.0000
5	17:03:54	102.88%	0.7596	↹66.5500	↹1710.7000	1694.8000	1685.2000	↹15100.0000	↹2674.2000
X		101.37%	0.7714	↹66.8610	↹1750.7000	1699.1000	1714.2000	↹15335.0000	↹2743.0000
%RSD		1.22	3.2518	↹1.3594	↹1.7654	0.5593	1.4835	↹0.9436	↹1.4906

Run	Time	44Ca	45Sc	47Ti	51V	52Cr	54Fe	55Mn	56Fe
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	17:01:16	3042.1000	98.40%	18.3800	32.0620	23.0010	17254.0000	↹607.8600	↹17297.0000
2	17:01:55	3015.2000	99.78%	18.9130	32.3870	23.5270	17704.0000	↹620.1000	↹17636.0000
3	17:02:35	3060.1000	101.87%	18.8610	32.2430	23.3310	17390.0000	↹622.5200	↹17686.0000
4	17:03:15	3029.4000	101.28%	18.6390	32.0530	23.1800	17441.0000	↹613.1200	↹17476.0000
5	17:03:54	3022.7000	101.06%	18.2330	31.7890	22.9300	17413.0000	↹609.7500	↹17395.0000
X		3033.9000	100.48%	18.6050	32.1070	23.1940	17441.0000	↹614.6700	↹17498.0000
%RSD		0.5823	1.38	1.5916	0.7019	1.0494	0.9398	↹1.0418	↹0.9302

Run	Time	57Fe	59Co	60Ni	63Cu	65Cu	66Zn	75As	78Se
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	17:01:16	16655.0000	9.3983	14.3590	258.9600	259.3400	224.7100	5.4423	-0.6548
2	17:01:55	16820.0000	9.5089	14.6280	260.7800	262.7200	226.3700	5.4635	-0.7098
3	17:02:35	16762.0000	9.6083	14.3780	261.6500	264.3800	227.5900	5.3608	-0.7164
4	17:03:15	16718.0000	9.4649	14.8300	261.8000	261.9400	224.7500	5.5930	-0.4870
5	17:03:54	16498.0000	9.5477	14.2020	260.8100	258.9200	224.3600	5.5762	-0.9855
X		16691.0000	9.5056	14.4790	260.8000	261.4600	225.5600	5.4872	-0.7107
%RSD		0.7387	0.8401	1.7178	0.4332	0.8826	0.6109	1.7685	25.2410

Run	Time	82Se	83Kr	89Y	94Mo	95Mo	96Mo	97Mo	98Mo
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	17:01:16	0.4639	0.0775	94.29%	0.0000	0.0000	0.0000	0.0000	0.0000
2	17:01:55	0.0425	0.8515	94.70%	0.0000	0.0000	0.0000	0.0000	0.0000
3	17:02:35	0.3222	-0.0711	95.51%	0.0000	0.0000	0.0000	0.0000	0.0000
4	17:03:15	0.5453	-0.1208	95.36%	0.0000	0.0000	0.0000	0.0000	0.0000
5	17:03:54	0.3508	0.4054	95.89%	0.0000	0.0000	0.0000	0.0000	0.0000
X		0.3449	0.2285	95.15%	0.0000	0.0000	0.0000	0.0000	0.0000
%RSD		55.4450	176.9600	0.68	0.0000	0.0000	0.0000	0.0000	0.0000

Run	Time	103Rh	107Ag	108Mo O	109Ag	111Cd	115In	118Sn	121Sb
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	17:01:16	90.89%	0.1068	-0.2672	0.1078	0.6860	0.0000	0.0000	0.1710
2	17:01:55	91.93%	0.1213	-0.2401	0.1036	0.6784	0.0000	0.0000	0.1903
3	17:02:35	92.84%	0.1156	-0.0027	0.1273	0.6531	0.0000	0.0000	0.2040
4	17:03:15	92.35%	0.1284	-0.5588	0.1217	0.6820	0.0000	0.0000	0.1875
5	17:03:54	92.30%	0.1054	-0.2029	0.1040	0.6204	0.0000	0.0000	0.1762
X		92.06%	0.1155	-0.2544	0.1129	0.6640	0.0000	0.0000	0.1858
%RSD		0.79	8.3936	78.3930	9.6429	4.1488	0.0000	0.0000	6.9377

Run	Time	135Ba	137Ba	159Tb	203Tl	205Tl	206Pb	207Pb	208Pb
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	17:01:16	132.3900	135.9300	88.17%	0.1428	0.1433	97.7400	89.2960	92.9080
2	17:01:55	133.9400	137.4500	88.90%	0.1409	0.1431	99.2100	91.4650	93.6010
3	17:02:35	131.9200	138.6600	89.95%	0.1585	0.1516	99.7640	92.1010	94.4230
4	17:03:15	133.2400	138.0700	89.48%	0.1520	0.1660	99.1470	90.5280	92.9900
5	17:03:54	131.2600	135.4500	89.24%	0.1513	0.1492	97.3670	90.0250	92.2780
X		132.5500	137.1100	89.15%	0.1491	0.1506	98.6450	90.6830	93.2400
%RSD		0.8001	1.0051	0.75	4.8492	6.2104	1.0479	1.2335	0.8694

Run	Time	209Bi	220Bkg
		ug/L	ug/L
1	17:01:16	87.77%	0.0785
2	17:01:55	89.36%	-0.5383
3	17:02:35	89.34%	0.0677
4	17:03:15	89.38%	-0.5383
5	17:03:54	89.21%	-0.5383
X		89.01%	-0.2938
%RSD		0.78	114.0100

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na	24Mg	25Mg	26Mg	27Al	39K
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	17:05:36	100.37%	0.7690	61.0660	↹1942.5000	1879.1000	1890.2000	↹16120.0000	↹3163.6000
2	17:06:19	102.24%	0.7241	62.9190	↹1958.6000	1901.3000	1871.7000	↹16047.0000	↹3169.6000
3	17:06:59	101.42%	0.7892	62.7300	↹1966.9000	1917.1000	1913.3000	↹16304.0000	↹3200.6000
4	17:07:40	101.93%	0.7770	62.8310	↹1963.4000	1918.0000	1927.0000	↹16057.0000	↹3134.1000
5	17:08:20	101.70%	0.7592	↹63.7300	↹1928.7000	1876.8000	1907.5000	↹16110.0000	↹3114.8000
x		101.53%	0.7637	↹62.6550	↹1952.0000	1898.4000	1901.9000	↹16128.0000	↹3156.5000
%RSD		0.71	3.2379	↹1.5525	↹0.8220	1.0485	1.1279	↹0.6419	↹1.0513

Run	Time	44Ca	45Sc	47Ti	51V	52Cr	54Fe	55Mn	56Fe
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	17:05:36	3262.5000	99.96%	22.7290	32.1560	22.6870	16764.0000	293.1600	↹17074.0000
2	17:06:19	3313.7000	100.65%	24.8490	31.4880	22.4440	16978.0000	291.3100	↹17126.0000
3	17:06:59	3334.4000	101.44%	23.4790	31.8310	22.9230	17126.0000	292.5000	↹17184.0000
4	17:07:40	3283.3000	101.29%	22.9530	31.9660	22.3960	16902.0000	289.7000	↹16972.0000
5	17:08:20	3302.1000	100.01%	23.0130	31.4810	22.4810	16827.0000	291.2300	↹17040.0000
x		3299.2000	100.67%	23.4050	31.7840	22.5860	16919.0000	291.5800	↹17079.0000
%RSD		0.8374	0.69	3.6423	0.9345	0.9679	0.8312	0.4561	↹0.4748

Run	Time	57Fe	59Co	60Ni	63Cu	65Cu	66Zn	75As	78Se
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	17:05:36	16212.0000	6.0028	15.5360	45.7600	45.8920	147.2200	4.7877	-0.8950
2	17:06:19	16209.0000	5.8430	15.5230	45.5870	46.4100	148.4800	4.6948	-0.9131
3	17:06:59	16389.0000	6.0549	15.1240	46.1580	46.8670	148.6300	4.9564	-0.7186
4	17:07:40	16131.0000	6.0195	15.1490	45.3600	46.6150	148.1400	4.8210	-0.6206
5	17:08:20	16064.0000	5.8497	14.9020	45.4160	45.7800	146.2900	4.8652	-0.8512
x		16201.0000	5.9540	15.2470	45.6560	46.3130	147.7500	4.8250	-0.7997
%RSD		0.7517	1.6804	1.8071	0.7039	1.0063	0.6651	1.9994	15.7250

Run	Time	82Se	83Kr	89Y	94Mo	95Mo	96Mo	97Mo	98Mo
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	17:05:36	0.7619	0.1260	94.33%	0.0000	0.0000	0.0000	0.0000	0.0000
2	17:06:19	0.0575	1.4198	94.41%	0.0000	0.0000	0.0000	0.0000	0.0000
3	17:06:59	0.7423	0.2818	94.70%	0.0000	0.0000	0.0000	0.0000	0.0000
4	17:07:40	0.1624	0.1159	94.34%	0.0000	0.0000	0.0000	0.0000	0.0000
5	17:08:20	0.7034	-1.2971	94.17%	0.0000	0.0000	0.0000	0.0000	0.0000
x		0.4855	0.1293	94.39%	0.0000	0.0000	0.0000	0.0000	0.0000
%RSD		71.1650	746.2100	0.21	0.0000	0.0000	0.0000	0.0000	0.0000

Run	Time	103Rh	107Ag	108Mo O	109Ag	111Cd	115In	118Sn	121Sb
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	17:05:36	91.96%	0.0662	-0.3824	0.0689	0.5458	0.0000	0.0000	0.1130
2	17:06:19	91.92%	0.0841	-0.0994	0.0651	0.5308	0.0000	0.0000	0.1304
3	17:06:59	90.90%	0.0823	0.1890	0.0822	0.4933	0.0000	0.0000	0.1400
4	17:07:40	91.74%	0.0855	0.2334	0.0734	0.4285	0.0000	0.0000	0.0898
5	17:08:20	91.94%	0.0638	-0.2590	0.0660	0.5251	0.0000	0.0000	0.1081
x		91.69%	0.0764	-0.0637	0.0711	0.5047	0.0000	0.0000	0.1163
%RSD		0.49	13.6980	425.2200	9.8416	9.2505	0.0000	0.0000	16.8640

Run	Time	135Ba	137Ba	159Tb	203Tl	205Tl	206Pb	207Pb	208Pb
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	17:05:36	102.4000	104.7300	88.04%	0.1417	0.1359	55.8570	50.9420	52.5940
2	17:06:19	104.1200	105.9700	88.36%	0.1540	0.1434	56.4110	51.5230	52.9950
3	17:06:59	105.3400	107.4300	87.14%	0.1345	0.1401	57.0790	52.1500	53.6740
4	17:07:40	103.0700	105.6600	87.38%	0.1587	0.1736	56.4570	51.3600	52.9730
5	17:08:20	101.6800	107.1100	87.27%	0.1375	0.1331	55.4050	50.7270	52.1530
x		103.3200	106.1800	87.64%	0.1453	0.1452	56.2420	51.3410	52.8780
%RSD		1.3961	1.0353	0.61	7.2637	11.2460	1.1330	1.0779	1.0625

Run	Time	209Bi	220Bkg
		ug/L	ug/L
1	17:05:36	88.10%	0.6907
2	17:06:19	87.80%	-0.5383
3	17:06:59	87.26%	0.0821
4	17:07:40	87.13%	-0.5383
5	17:08:20	87.34%	0.0815
x		87.53%	-0.0445
%RSD		0.47	1158.1000

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na	24Mg	25Mg	26Mg	27Al	39K
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	17:10:02	99.90%	0.6781	80.3320	τ2048.6000	1997.4000	2049.4000	τ16505.0000	τ2892.7000
2	17:10:42	100.62%	0.7395	τ86.5660	τ2112.2000	2024.4000	2013.8000	τ16568.0000	τ2932.4000
3	17:11:22	101.37%	0.7076	81.1620	τ2102.8000	2028.5000	2048.5000	τ16465.0000	τ2916.8000
4	17:12:01	102.00%	0.6804	81.3070	τ2118.2000	2025.5000	2039.2000	τ16388.0000	τ2930.7000
5	17:12:41	102.23%	0.6275	τ83.2150	τ2027.8000	1973.1000	1997.7000	τ16219.0000	τ2878.2000
X		101.22%	0.6866	τ82.5160	τ2081.9000	2009.8000	2029.7000	τ16429.0000	τ2910.2000
%RSD		0.96	6.0238	τ3.0271	τ1.9663	1.1959	1.1309	τ0.8164	τ0.8215

Run	Time	44Ca	45Sc	47Ti	51V	52Cr	54Fe	55Mn	56Fe
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	17:10:02	4989.9000	99.72%	24.2600	30.6220	20.9410	16186.0000	τ613.7200	τ16274.0000
2	17:10:42	5069.9000	99.33%	24.6250	30.8950	21.1940	16402.0000	τ624.8500	τ16467.0000
3	17:11:22	5063.5000	100.66%	24.2470	30.7890	21.0080	16487.0000	τ621.6900	τ16423.0000
4	17:12:01	5009.8000	99.86%	23.7800	30.8320	21.1090	16155.0000	τ619.9200	τ16484.0000
5	17:12:41	4933.4000	100.48%	23.7800	30.6660	20.7020	16075.0000	τ615.4200	τ16288.0000
X		5013.3000	100.01%	24.1390	30.7610	20.9910	16261.0000	τ619.1200	τ16387.0000
%RSD		1.1232	0.55	1.4943	0.3704	0.8961	1.0770	τ0.7356	τ0.6061

Run	Time	57Fe	59Co	60Ni	63Cu	65Cu	66Zn	75As	78Se
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	17:10:02	15576.0000	8.9270	12.9630	189.9500	190.0000	317.2500	4.6389	-0.7075
2	17:10:42	15552.0000	8.9558	13.2910	194.0400	195.9200	317.7100	4.6259	-0.6666
3	17:11:22	15652.0000	9.0216	13.1470	191.9500	193.9400	315.6300	4.3344	-0.3332
4	17:12:01	15583.0000	9.0626	13.2450	191.3500	193.5800	313.7800	4.5361	-0.6895
5	17:12:41	15430.0000	8.8434	13.0100	189.0900	188.3100	311.6400	4.5924	-0.8425
X		15559.0000	8.9621	13.1310	191.2700	192.3500	315.2000	4.5455	-0.6479
%RSD		0.5217	0.9502	1.0893	1.0013	1.6143	0.7996	2.7398	29.1380

Run	Time	82Se	83Kr	89Y	94Mo	95Mo	96Mo	97Mo	98Mo
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	17:10:02	0.7868	-0.4362	93.11%	0.0000	0.0000	0.0000	0.0000	0.0000
2	17:10:42	0.7716	0.4447	93.15%	0.0000	0.0000	0.0000	0.0000	0.0000
3	17:11:22	0.5863	-0.5259	93.55%	0.0000	0.0000	0.0000	0.0000	0.0000
4	17:12:01	0.2690	0.0230	93.93%	0.0000	0.0000	0.0000	0.0000	0.0000
5	17:12:41	0.6008	-0.5932	93.68%	0.0000	0.0000	0.0000	0.0000	0.0000
X		0.6029	-0.2175	93.49%	0.0000	0.0000	0.0000	0.0000	0.0000
%RSD		34.6010	203.0700	0.38	0.0000	0.0000	0.0000	0.0000	0.0000

Run	Time	103Rh	107Ag	108Mo O	109Ag	111Cd	115In	118Sn	121Sb
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	17:10:02	90.14%	0.1831	-0.1739	0.1798	0.8521	0.0000	0.0000	0.2934
2	17:10:42	90.88%	0.1558	-0.0928	0.1558	1.0421	0.0000	0.0000	0.2739
3	17:11:22	90.44%	0.1775	-0.1226	0.1690	0.9120	0.0000	0.0000	0.2498
4	17:12:01	91.35%	0.1741	-0.2893	0.1625	0.8634	0.0000	0.0000	0.3018
5	17:12:41	92.10%	0.1548	0.4766	0.1629	0.8552	0.0000	0.0000	0.2828
X		90.98%	0.1691	-0.0404	0.1660	0.9050	0.0000	0.0000	0.2804
%RSD		0.85	7.6605	738.9000	5.4303	8.8837	0.0000	0.0000	7.1554

Run	Time	135Ba	137Ba	159Tb	203Tl	205Tl	206Pb	207Pb	208Pb
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	17:10:02	151.0500	155.3300	86.86%	0.1575	0.1644	102.0000	93.5680	96.6150
2	17:10:42	151.7700	156.5800	86.35%	0.1588	0.1588	102.6700	93.5070	96.5930
3	17:11:22	155.1300	157.6400	86.76%	0.1646	0.1778	101.3000	93.7690	96.1180
4	17:12:01	150.3400	152.9400	87.49%	0.1592	0.1768	103.0400	94.1800	96.8670
5	17:12:41	146.2300	153.3100	87.76%	0.1566	0.1655	100.4800	91.8250	94.8350
X		150.9100	155.1600	87.04%	0.1593	0.1687	101.9000	93.3700	96.2060
%RSD		2.1170	1.3103	0.66	1.9508	4.9290	1.0170	0.9669	0.8447

Run	Time	209Bi	220Bkg
		ug/L	ug/L
1	17:10:02	86.41%	-0.5383
2	17:10:42	86.66%	-0.5383
3	17:11:22	87.11%	0.0832
4	17:12:01	87.41%	0.7004
5	17:12:41	88.44%	-0.5383
X		87.21%	-0.1663
%RSD		0.91	333.3200

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na	24Mg	25Mg	26Mg	27Al	39K
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	17:14:23	101.36%	0.4091	31.6520	T 1197.4000	1172.7000	1170.0000	T 11712.0000	T 1516.8000
2	17:15:02	102.21%	0.4404	32.6410	1209.9000	1192.9000	1195.1000	T 11667.0000	T 1536.7000
3	17:15:42	102.30%	0.4058	32.6810	1230.7000	1213.1000	1204.3000	T 11816.0000	T 1535.3000
4	17:16:22	102.43%	0.3873	33.5890	1215.7000	1189.6000	1183.7000	T 11720.0000	T 1539.2000
5	17:17:01	103.32%	0.4322	31.9170	T 1210.4000	1169.3000	1185.3000	T 11574.0000	T 1518.3000
x		102.32%	0.4150	32.4960	T 1212.8000	1187.5000	1187.7000	T 11698.0000	T 1529.3000
%RSD		0.68	5.1494	2.3326	T 0.9930	1.4810	1.0882	T 0.7530	T 0.7053

Run	Time	44Ca	45Sc	47Ti	51V	52Cr	54Fe	55Mn	56Fe
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	17:14:23	1535.3000	99.79%	21.3810	21.6830	13.6570	9729.5000	318.8300	T 9866.6000
2	17:15:02	1574.8000	100.83%	20.8280	21.9580	13.3690	9725.5000	321.4900	T 10043.0000
3	17:15:42	1535.7000	101.21%	21.6870	21.9900	13.3800	9819.1000	324.4100	T 10010.0000
4	17:16:22	1528.4000	101.15%	21.0850	21.9270	13.5610	9808.4000	325.4500	T 10030.0000
5	17:17:01	1521.1000	101.35%	20.8990	22.2020	13.6790	9693.7000	321.6600	T 9959.1000
x		1539.0000	100.87%	21.1760	21.9520	13.5290	9755.2000	322.3700	T 9981.8000
%RSD		1.3553	0.63	1.6856	0.8428	1.0941	0.5669	0.8134	T 0.7204

Run	Time	57Fe	59Co	60Ni	63Cu	65Cu	66Zn	75As	78Se
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	17:14:23	9366.2000	4.8073	7.9292	61.4330	61.4380	108.8100	2.7946	-0.7378
2	17:15:02	9419.0000	4.8958	8.1666	62.0090	62.6950	111.9200	2.9041	-0.4441
3	17:15:42	9452.6000	4.8551	8.1875	61.7530	61.6140	110.4600	2.9518	-0.7390
4	17:16:22	9410.5000	4.9247	8.3442	62.3760	62.7720	112.0600	2.8210	-0.3320
5	17:17:01	9490.8000	4.9906	8.0368	61.4620	62.9490	111.3900	2.8468	-0.5804
x		9427.8000	4.8947	8.1329	61.8070	62.2940	110.9300	2.8636	-0.5667
%RSD		0.4964	1.4193	1.9396	0.6401	1.1387	1.2066	2.2276	31.7240

Run	Time	82Se	83Kr	89Y	94Mo	95Mo	96Mo	97Mo	98Mo
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	17:14:23	0.1499	0.4303	93.35%	0.0000	0.0000	0.0000	0.0000	0.0000
2	17:15:02	0.2410	-0.1903	93.07%	0.0000	0.0000	0.0000	0.0000	0.0000
3	17:15:42	0.4469	-0.3128	94.24%	0.0000	0.0000	0.0000	0.0000	0.0000
4	17:16:22	0.3601	-0.4649	93.52%	0.0000	0.0000	0.0000	0.0000	0.0000
5	17:17:01	0.4071	0.4366	93.02%	0.0000	0.0000	0.0000	0.0000	0.0000
x		0.3210	-0.0202	93.44%	0.0000	0.0000	0.0000	0.0000	0.0000
%RSD		38.3090	2102.1000	0.53	0.0000	0.0000	0.0000	0.0000	0.0000

Run	Time	103Rh	107Ag	108Mo O	109Ag	111Cd	115In	118Sn	121Sb
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	17:14:23	92.35%	0.1228	0.3133	0.0944	0.3478	0.0000	0.0000	0.1393
2	17:15:02	92.41%	0.1224	-0.0270	0.1117	0.3954	0.0000	0.0000	0.0967
3	17:15:42	92.94%	0.1212	0.1972	0.1084	0.3775	0.0000	0.0000	0.1459
4	17:16:22	91.66%	0.1212	0.0341	0.1132	0.4127	0.0000	0.0000	0.1086
5	17:17:01	92.93%	0.1132	0.1660	0.1114	0.3460	0.0000	0.0000	0.1093
x		92.45%	0.1202	0.1367	0.1078	0.3759	0.0000	0.0000	0.1200
%RSD		0.57	3.2918	98.8140	7.1649	7.7844	0.0000	0.0000	17.8430

Run	Time	135Ba	137Ba	159Tb	203Tl	205Tl	206Pb	207Pb	208Pb
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	17:14:23	69.5620	69.7970	88.38%	0.1289	0.1214	45.7390	40.8650	42.5150
2	17:15:02	67.9960	71.1640	87.95%	0.1354	0.1272	46.3100	41.7540	43.2210
3	17:15:42	69.0820	71.9030	88.85%	0.1230	0.1237	46.4720	42.1350	43.5670
4	17:16:22	70.8520	72.1670	89.05%	0.1291	0.1333	45.8720	41.3650	43.0640
5	17:17:01	67.3020	70.9250	88.55%	0.1339	0.1246	45.4910	41.4990	42.6580
x		68.9590	71.1910	88.56%	0.1300	0.1260	45.9770	41.5240	43.0050
%RSD		2.0039	1.3092	0.48	3.7514	3.6036	0.8830	1.1340	0.9917

Run	Time	209Bi	220Bkg
		ug/L	ug/L
1	17:14:23	87.99%	0.0769
2	17:15:02	87.87%	-0.5383
3	17:15:42	88.76%	-0.5383
4	17:16:22	88.46%	0.0737
5	17:17:01	89.05%	0.0697
x		88.43%	-0.1713
%RSD		0.56	195.6200

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na	24Mg	25Mg	26Mg	27Al	39K
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	17:18:43	101.50%	0.5591	↹55.7590	↹7489.5000	7295.5000	7337.7000	↹14515.0000	↹2162.2000
2	17:19:23	102.16%	0.5787	55.3330	↹7487.2000	7323.7000	7362.1000	↹14475.0000	↹2173.2000
3	17:20:03	103.39%	0.5414	54.4120	↹7302.7000	7177.9000	7219.9000	↹14253.0000	↹2187.4000
4	17:20:42	103.12%	0.4858	↹57.9520	↹7435.4000	7234.6000	7258.8000	↹14385.0000	↹2195.6000
5	17:21:22	102.13%	0.5540	54.0010	↹7385.9000	7166.4000	7135.2000	↹14315.0000	↹2125.6000
X		102.46%	0.5438	↹55.4910	↹7420.1000	7239.6000	7262.7000	↹14389.0000	↹2168.8000
%RSD		0.76	6.4550	↹2.7831	↹1.0545	0.9613	1.2622	↹0.7565	↹1.2616

Run	Time	44Ca	45Sc	47Ti	51V	52Cr	54Fe	55Mn	56Fe
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	17:18:43	12973.0000	100.55%	22.8200	28.3870	18.1900	15157.0000	↹635.9900	↹15260.0000
2	17:19:23	12966.0000	101.06%	22.5430	28.3010	17.9940	15220.0000	↹635.2100	↹15351.0000
3	17:20:03	13006.0000	101.25%	22.9790	28.3530	18.0940	15245.0000	↹636.7000	↹15356.0000
4	17:20:42	12811.0000	101.28%	22.2710	28.2290	17.5560	14987.0000	↹635.4000	↹15197.0000
5	17:21:22	12706.0000	101.95%	22.6160	27.8660	17.7150	14843.0000	↹626.4500	↹14955.0000
X		12892.0000	101.22%	22.6460	28.2270	17.9100	15090.0000	↹633.9500	↹15224.0000
%RSD		0.9971	0.50	1.1947	0.7459	1.4821	1.1342	↹0.6676	↹1.0802

Run	Time	57Fe	59Co	60Ni	63Cu	65Cu	66Zn	75As	78Se
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	17:18:43	14549.0000	7.0100	10.8510	53.3410	54.2500	144.8200	7.1575	-0.6462
2	17:19:23	14592.0000	6.9673	10.9280	53.2030	53.8430	146.8600	7.6090	-1.1021
3	17:20:03	14511.0000	6.8997	11.2140	53.7550	54.3950	147.2800	7.2553	-0.4778
4	17:20:42	14426.0000	6.9669	11.0030	53.5300	54.4960	145.6900	7.5358	-0.5601
5	17:21:22	14195.0000	6.7219	10.9180	52.3900	53.0800	144.7700	6.8609	-0.3832
X		14454.0000	6.9132	10.9830	53.2440	54.0130	145.8800	7.2837	-0.6339
%RSD		1.0897	1.6490	1.2738	0.9772	1.0695	0.7912	4.1467	44.0580

Run	Time	82Se	83Kr	89Y	94Mo	95Mo	96Mo	97Mo	98Mo
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	17:18:43	0.3469	1.0699	93.04%	0.0000	0.0000	0.0000	0.0000	0.0000
2	17:19:23	0.4055	0.0394	93.45%	0.0000	0.0000	0.0000	0.0000	0.0000
3	17:20:03	0.0732	1.0171	93.81%	0.0000	0.0000	0.0000	0.0000	0.0000
4	17:20:42	0.5950	-1.0079	94.52%	0.0000	0.0000	0.0000	0.0000	0.0000
5	17:21:22	-0.0170	0.6277	93.98%	0.0000	0.0000	0.0000	0.0000	0.0000
X		0.2807	0.3492	93.76%	0.0000	0.0000	0.0000	0.0000	0.0000
%RSD		89.1250	247.1900	0.59	0.0000	0.0000	0.0000	0.0000	0.0000

Run	Time	103Rh	107Ag	108Mo O	109Ag	111Cd	115In	118Sn	121Sb
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	17:18:43	91.21%	0.1146	0.4576	0.1204	0.6691	0.0000	0.0000	0.1603
2	17:19:23	90.92%	0.1102	-0.7142	0.1183	0.6586	0.0000	0.0000	0.1329
3	17:20:03	91.51%	0.1298	-0.3328	0.1197	0.6409	0.0000	0.0000	0.1505
4	17:20:42	92.41%	0.1127	-1.1348	0.1164	0.5271	0.0000	0.0000	0.1453
5	17:21:22	92.37%	0.1132	-0.0603	0.1143	0.6105	0.0000	0.0000	0.1678
X		91.68%	0.1161	-0.3569	0.1178	0.6212	0.0000	0.0000	0.1513
%RSD		0.74	6.7352	170.7100	2.1029	9.1927	0.0000	0.0000	8.9157

Run	Time	135Ba	137Ba	159Tb	203Tl	205Tl	206Pb	207Pb	208Pb
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	17:18:43	94.4360	97.7360	87.57%	0.1368	0.1514	61.8540	56.5950	58.1790
2	17:19:23	95.9140	97.3700	86.86%	0.1538	0.1518	61.3100	55.6550	57.7400
3	17:20:03	96.1340	98.3090	87.16%	0.1566	0.1574	61.5230	56.1300	58.1200
4	17:20:42	94.3650	96.8900	87.55%	0.1421	0.1537	61.2910	55.6930	57.7140
5	17:21:22	94.0480	96.7080	87.57%	0.1558	0.1572	59.9220	54.1050	56.5230
X		94.9790	97.4020	87.34%	0.1490	0.1543	61.1800	55.6360	57.6550
%RSD		1.0189	0.6652	0.37	6.0295	1.8548	1.2079	1.6843	1.1581

Run	Time	209Bi	220Bkg
		ug/L	ug/L
1	17:18:43	86.11%	-0.5383
2	17:19:23	86.43%	1.3409
3	17:20:03	86.87%	-0.5383
4	17:20:42	86.75%	-0.5383
5	17:21:22	87.24%	0.7028
X		86.68%	0.0858
%RSD		0.50	1030.7000

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na	24Mg	25Mg	26Mg	27Al	39K
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	17:23:05	102.04%	-0.0113	6.6221	2.1969	2.0970	1.6999	10.1890	-8.6380
2	17:23:44	102.96%	-0.0095	6.6747	1.3840	1.2133	1.6684	8.2668	-8.5999
3	17:24:24	103.84%	-0.0140	6.8277	1.0920	1.0380	1.0644	7.6135	-9.4548
4	17:25:05	106.19%	-0.0135	7.0120	1.0074	1.2183	0.9398	6.7177	-8.4549
5	17:25:45	105.61%	-0.0061	6.9163	0.6835	0.6688	0.6896	6.2452	-8.6840
X		104.13%	-0.0109	6.8105	1.2728	1.2471	1.2124	7.8064	-8.7663
%RSD		1.68	29.3560	2.3908	45.0800	42.1000	37.2320	19.7910	4.4980

Run	Time	44Ca	45Sc	47Ti	51V	52Cr	54Fe	55Mn	56Fe
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	17:23:05	0.4021	98.20%	0.0051	-0.0242	-0.0128	8.3371	0.2009	2.1171
2	17:23:44	-0.4862	100.43%	0.0117	-0.0315	-0.0402	4.7761	0.1163	-0.2351
3	17:24:24	-0.2541	101.69%	0.0004	0.0183	-0.0792	3.9347	0.0859	-0.6713
4	17:25:05	-1.1231	102.00%	0.0059	-0.0255	-0.0736	1.6536	0.0546	-1.6363
5	17:25:45	-0.7579	102.12%	0.0044	0.0139	-0.0207	2.6003	0.0480	-1.7323
X		-0.4439	100.89%	0.0055	-0.0098	-0.0453	4.2604	0.1011	-0.4316
%RSD		129.1000	1.63	73.9980	242.8800	66.5060	60.4640	61.3700	361.4500

Run	Time	57Fe	59Co	60Ni	63Cu	65Cu	66Zn	75As	78Se
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	17:23:05	6.2052	0.0041	0.2390	0.0017	0.1169	2.1149	-0.0224	-0.7416
2	17:23:44	3.5558	0.0040	0.2355	-0.0218	0.1186	2.1573	-0.0200	-0.7149
3	17:24:24	1.9922	0.0018	0.2486	-0.0015	0.1272	2.2508	-0.0286	-0.7157
4	17:25:05	-0.8932	0.0012	0.2121	-0.0212	0.1228	2.2431	-0.0069	-0.6282
5	17:25:45	-0.0934	0.0012	0.2351	-0.0018	0.0896	2.0941	-0.0279	-0.6716
X		2.1533	0.0025	0.2341	-0.0089	0.1150	2.1720	-0.0212	-0.6944
%RSD		132.8600	60.1050	5.7430	129.8700	12.8440	3.3206	41.4380	6.4424

Run	Time	82Se	83Kr	89Y	94Mo	95Mo	96Mo	97Mo	98Mo
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	17:23:05	-0.0459	-0.2900	91.62%	0.0000	0.0000	0.0000	0.0000	0.0000
2	17:23:44	-0.0462	0.8646	91.25%	0.0000	0.0000	0.0000	0.0000	0.0000
3	17:24:24	-0.2281	0.1282	92.87%	0.0000	0.0000	0.0000	0.0000	0.0000
4	17:25:05	-0.0313	0.2006	92.65%	0.0000	0.0000	0.0000	0.0000	0.0000
5	17:25:45	-0.0616	-0.4740	93.58%	0.0000	0.0000	0.0000	0.0000	0.0000
X		-0.0826	0.0859	92.39%	0.0000	0.0000	0.0000	0.0000	0.0000
%RSD		99.3240	603.8700	1.03	0.0000	0.0000	0.0000	0.0000	0.0000

Run	Time	103Rh	107Ag	108Mo O	109Ag	111Cd	115In	118Sn	121Sb
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	17:23:05	94.24%	0.0011	1.0092	-0.0021	-0.0322	0.0000	0.0000	0.0051
2	17:23:44	94.82%	0.0022	0.0477	0.0045	0.0076	0.0000	0.0000	0.0138
3	17:24:24	95.74%	0.0037	0.1606	0.0019	0.0052	0.0000	0.0000	0.0065
4	17:25:05	96.02%	0.0032	0.1360	0.0019	0.0034	0.0000	0.0000	-0.0008
5	17:25:45	96.41%	0.0059	0.5309	-0.0002	-0.0084	0.0000	0.0000	0.0035
X		95.45%	0.0032	0.3769	0.0012	-0.0049	0.0000	0.0000	0.0056
%RSD		0.94	55.9020	105.8700	204.4600	337.5500	0.0000	0.0000	94.9760

Run	Time	135Ba	137Ba	159Tb	203Tl	205Tl	206Pb	207Pb	208Pb
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	17:23:05	0.0398	0.0479	89.66%	-0.0140	-0.0132	0.0325	0.0180	0.0269
2	17:23:44	0.0181	0.0435	89.97%	-0.0076	-0.0072	0.0131	0.0120	0.0121
3	17:24:24	0.0536	0.0474	90.01%	0.0013	-0.0019	0.0243	0.0188	0.0211
4	17:25:05	0.0180	0.0390	90.02%	0.0085	0.0026	0.0007	0.0038	0.0031
5	17:25:45	0.0108	0.0264	90.29%	-0.0003	-0.0052	0.0066	0.0145	0.0085
X		0.0280	0.0408	89.99%	-0.0024	-0.0050	0.0154	0.0134	0.0143
%RSD		64.0200	21.6720	0.25	355.3400	119.2200	83.8380	45.0960	67.0320

Run	Time	209Bi	220Bkg
		ug/L	ug/L
1	17:23:05	90.50%	-0.5383
2	17:23:44	91.26%	-0.5383
3	17:24:24	91.42%	-0.5383
4	17:25:05	90.81%	0.0579
5	17:25:45	91.68%	0.0522
X		91.13%	-0.3010
%RSD		0.52	107.9800

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na	24Mg	25Mg	26Mg	27Al	39K
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	17:27:25	93.34%	↹2615.9000	↹50325.0000	↹50044.0000	↹49255.0000	↹48004.0000	↹48938.0000	↹44120.0000
2	17:28:05	95.17%	↹2597.7000	↹50544.0000	↹49425.0000	↹48767.0000	↹47856.0000	↹48969.0000	↹44462.0000
3	17:28:45	95.34%	↹2611.6000	↹50356.0000	↹49417.0000	↹48642.0000	↹47489.0000	↹48910.0000	↹44642.0000
4	17:29:25	95.09%	↹2642.0000	↹50448.0000	↹49506.0000	↹48794.0000	↹48021.0000	↹49031.0000	↹44523.0000
5	17:30:04	95.22%	↹2605.3000	↹49401.0000	↹49301.0000	↹48713.0000	↹48267.0000	↹48135.0000	↹43730.0000
x		94.83%	↹2614.5000	↹50215.0000	↹49539.0000	↹48834.0000	↹47928.0000	↹48797.0000	↹44295.0000
%RSD		0.88	↹0.6438	↹0.9218	↹0.5893	↹0.4966	↹0.5969	↹0.7640	↹0.8373

Run	Time	44Ca	45Sc	47Ti	51V	52Cr	54Fe	55Mn	56Fe
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	17:27:25	49234.0000	91.75%	0.0295	↹2646.8000	↹2497.0000	↹50405.0000	↹2421.0000	↹48451.0000
2	17:28:05	48835.0000	93.15%	0.0304	↹2647.1000	↹2493.3000	↹50295.0000	↹2419.1000	↹48559.0000
3	17:28:45	49593.0000	92.85%	0.0305	↹2654.2000	↹2507.2000	↹50708.0000	↹2452.9000	↹49117.0000
4	17:29:25	↹48650.0000	93.90%	0.0270	↹2665.1000	↹2503.4000	↹50317.0000	↹2438.1000	↹48681.0000
5	17:30:04	48227.0000	94.27%	0.0388	↹2617.1000	↹2483.4000	↹49374.0000	↹2405.3000	↹48156.0000
x		↹48908.0000	93.18%	0.0313	↹2646.1000	↹2496.9000	↹50220.0000	↹2427.3000	↹48593.0000
%RSD		↹1.0777	1.06	14.2580	↹0.6726	↹0.3710	↹0.9965	↹0.7607	↹0.7240

Run	Time	57Fe	59Co	60Ni	63Cu	65Cu	66Zn	75As	78Se
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	17:27:25	48038.0000	↹2478.4000	↹2462.2000	↹2421.6000	↹2420.0000	2313.4000	2499.0000	250.0500
2	17:28:05	47675.0000	↹2495.4000	↹2462.0000	↹2426.3000	↹2411.5000	2320.7000	2501.9000	253.0300
3	17:28:45	47937.0000	↹2506.9000	↹2476.1000	↹2436.2000	↹2452.8000	2331.3000	2522.4000	253.2500
4	17:29:25	47789.0000	↹2502.6000	↹2466.7000	↹2430.9000	↹2461.0000	2327.8000	2507.5000	251.3500
5	17:30:04	47016.0000	↹2479.3000	2499.5000	↹2399.9000	↹2406.1000	2302.1000	2497.0000	248.6300
x		47691.0000	↹2492.5000	↹2473.3000	↹2423.0000	↹2430.3000	2319.1000	2505.6000	251.2600
%RSD		0.8431	↹0.5267	↹0.6360	↹0.5786	↹1.0276	0.5058	0.4082	0.7829

Run	Time	82Se	83Kr	89Y	94Mo	95Mo	96Mo	97Mo	98Mo
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	17:27:25	250.6800	1.8319	81.39%	0.0000	0.0000	0.0000	0.0000	0.0000
2	17:28:05	252.4500	3.1801	81.32%	0.0000	0.0000	0.0000	0.0000	0.0000
3	17:28:45	254.4300	2.3631	81.73%	0.0000	0.0000	0.0000	0.0000	0.0000
4	17:29:25	253.5200	1.0836	81.60%	0.0000	0.0000	0.0000	0.0000	0.0000
5	17:30:04	249.7700	0.4003	82.23%	0.0000	0.0000	0.0000	0.0000	0.0000
x		252.1700	1.7718	81.66%	0.0000	0.0000	0.0000	0.0000	0.0000
%RSD		0.7670	61.1200	0.44	0.0000	0.0000	0.0000	0.0000	0.0000

Run	Time	103Rh	107Ag	108Mo O	109Ag	111Cd	115In	118Sn	121Sb
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	17:27:25	81.17%	252.7600	-11.0420	254.7800	2504.2000	0.0000	0.0000	↹2545.4000
2	17:28:05	81.09%	257.5300	-12.7810	258.1000	2510.8000	0.0000	0.0000	↹2535.4000
3	17:28:45	81.27%	260.3300	-6.9100	261.2500	2515.8000	0.0000	0.0000	↹2551.9000
4	17:29:25	80.76%	263.5000	-3.4042	264.4400	2529.4000	0.0000	0.0000	↹2569.9000
5	17:30:04	80.91%	257.9200	-1.1229	257.3800	2525.8000	0.0000	0.0000	↹2561.1000
x		81.04%	258.4100	-7.0519	259.1900	2517.2000	0.0000	0.0000	↹2552.7000
%RSD		0.25	1.5303	69.9100	1.4407	0.4141	0.0000	0.0000	↹0.5255

Run	Time	135Ba	137Ba	159Tb	203Tl	205Tl	206Pb	207Pb	208Pb
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	17:27:25	2447.1000	2569.4000	79.45%	↹2643.1000	↹2661.7000	↹2710.6000	↹2588.6000	↹2653.3000
2	17:28:05	2463.2000	2580.3000	79.75%	↹2663.1000	↹2680.5000	↹2687.7000	↹2575.2000	↹2630.1000
3	17:28:45	2481.0000	2579.8000	79.78%	↹2631.4000	↹2663.6000	↹2682.6000	↹2562.0000	↹2634.8000
4	17:29:25	2485.2000	2602.9000	79.65%	↹2659.0000	↹2662.9000	↹2691.7000	↹2562.1000	↹2636.0000
5	17:30:04	2500.2000	2584.5000	79.00%	↹2627.4000	↹2646.7000	↹2679.4000	↹2531.2000	↹2618.0000
x		2475.4000	2583.4000	79.53%	↹2644.8000	↹2663.1000	↹2690.4000	↹2563.8000	↹2634.4000
%RSD		0.8313	0.4743	0.41	↹0.6042	↹0.4493	↹0.4544	↹0.8305	↹0.4829

Run	Time	209Bi	220Bkg
		ug/L	ug/L
1	17:27:25	74.14%	-0.5383
2	17:28:05	74.74%	3.0837
3	17:28:45	74.99%	0.9056
4	17:29:25	75.11%	1.6241
5	17:30:04	74.66%	-0.5383
x		74.73%	0.9073
%RSD		0.50	169.2200

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na	24Mg	25Mg	26Mg	27Al	39K
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	17:32:19	104.46%	0.3837	6.2029	4.9718	5.4240	4.8942	4.6959	-3.5048
2	17:32:58	105.06%	0.3279	4.9346	3.8371	3.9924	3.2188	3.7681	-6.5668
3	17:33:38	106.65%	0.2411	3.4676	3.1759	3.1693	2.7603	2.9737	-6.8722
4	17:34:18	107.33%	0.1803	2.4367	2.3023	1.9595	2.0137	2.4163	-8.0247
5	17:34:57	107.61%	0.1339	1.4186	1.7278	1.5496	1.3868	1.6744	-9.2265
x		106.22%	0.2534	3.6921	3.2030	3.2189	2.8548	3.1057	-6.8390
%RSD		1.31	40.5930	51.8230	39.8570	48.7140	46.8750	37.7860	31.2740

Run	Time	44Ca	45Sc	47Ti	51V	52Cr	54Fe	55Mn	56Fe
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	17:32:19	-2.0348	98.40%	-0.0049	0.2053	0.1886	8.3037	0.2311	-2.3361
2	17:32:58	-3.8492	100.44%	0.0020	0.2175	0.1608	5.1694	0.1980	-3.2435
3	17:33:38	-0.8598	100.36%	0.0062	0.1175	0.1035	3.9317	0.1406	-3.5569
4	17:34:18	-5.0784	101.58%	0.0018	0.0893	0.1183	4.2907	0.1131	-4.9123
5	17:34:57	-5.4134	103.23%	-0.0093	0.0910	0.0703	3.9206	0.0767	-5.8549
x		-3.4471	100.80%	-0.0009	0.1441	0.1283	5.1232	0.1519	-3.9807
%RSD		56.8800	1.76	718.9800	43.4150	36.5030	36.0920	41.2270	35.0990

Run	Time	57Fe	59Co	60Ni	63Cu	65Cu	66Zn	75As	78Se
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	17:32:19	5.2540	0.2318	0.3068	0.3919	0.3107	0.3742	0.4602	-0.0457
2	17:32:58	3.5758	0.1865	0.2689	0.3015	0.2705	0.3255	0.3249	-0.3614
3	17:33:38	4.6169	0.1508	0.2082	0.2682	0.2216	0.2146	0.3325	-0.4990
4	17:34:18	1.0022	0.1216	0.1769	0.2123	0.1158	0.1796	0.3019	-0.6326
5	17:34:57	2.1905	0.0672	0.1312	0.1623	0.0875	0.1928	0.3052	-0.2222
x		3.3279	0.1516	0.2184	0.2672	0.2012	0.2573	0.3450	-0.3522
%RSD		52.3400	41.3020	32.2090	32.8130	48.0850	33.8400	19.0540	65.2250

Run	Time	82Se	83Kr	89Y	94Mo	95Mo	96Mo	97Mo	98Mo
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	17:32:19	0.2863	-0.3505	88.94%	0.0000	0.0000	0.0000	0.0000	0.0000
2	17:32:58	-0.2481	0.2947	90.00%	0.0000	0.0000	0.0000	0.0000	0.0000
3	17:33:38	0.0307	-0.4350	91.68%	0.0000	0.0000	0.0000	0.0000	0.0000
4	17:34:18	0.0301	-0.3333	92.04%	0.0000	0.0000	0.0000	0.0000	0.0000
5	17:34:57	0.3783	-1.0582	92.48%	0.0000	0.0000	0.0000	0.0000	0.0000
x		0.0955	-0.3765	91.03%	0.0000	0.0000	0.0000	0.0000	0.0000
%RSD		258.1600	127.4800	1.65	0.0000	0.0000	0.0000	0.0000	0.0000

Run	Time	103Rh	107Ag	108Mo O	109Ag	111Cd	115In	118Sn	121Sb
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	17:32:19	91.94%	0.0948	0.9306	0.0861	0.2258	0.0000	0.0000	0.9837
2	17:32:58	93.54%	0.0734	0.5511	0.0774	0.1714	0.0000	0.0000	0.7797
3	17:33:38	93.89%	0.0632	0.7366	0.0700	0.1106	0.0000	0.0000	0.6810
4	17:34:18	94.82%	0.0609	-0.1868	0.0672	0.1020	0.0000	0.0000	0.5349
5	17:34:57	94.70%	0.0397	0.2576	0.0289	0.0765	0.0000	0.0000	0.4511
x		93.78%	0.0664	0.4578	0.0659	0.1373	0.0000	0.0000	0.6861
%RSD		1.24	30.2040	95.5530	33.3290	44.1010	0.0000	0.0000	30.5250

Run	Time	135Ba	137Ba	159Tb	203Tl	205Tl	206Pb	207Pb	208Pb
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	17:32:19	0.2718	0.2027	86.12%	0.4052	0.3963	0.2700	0.3097	0.2834
2	17:32:58	0.1574	0.1990	87.70%	0.3127	0.3065	0.2242	0.2417	0.2411
3	17:33:38	0.1636	0.1636	88.41%	0.2128	0.2342	0.1594	0.1571	0.1750
4	17:34:18	0.0978	0.1247	88.46%	0.1851	0.1903	0.1587	0.1409	0.1492
5	17:34:57	0.1697	0.0905	88.84%	0.1378	0.1412	0.0966	0.0751	0.0859
x		0.1720	0.1561	87.91%	0.2507	0.2537	0.1818	0.1849	0.1869
%RSD		36.4790	30.9960	1.23	42.8520	39.5070	36.7770	49.5520	41.4490

Run	Time	209Bi	220Bkg
		ug/L	ug/L
1	17:32:19	87.73%	0.0788
2	17:32:58	88.58%	-0.5383
3	17:33:38	89.18%	-0.5383
4	17:34:18	90.20%	0.0619
5	17:34:57	90.96%	-0.5383
x		89.33%	-0.2949
%RSD		1.44	113.0800

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na	24Mg	25Mg	26Mg	27Al	39K
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	17:36:39	111.05%	0.0699	0.3605	1.0476	1.4798	0.8345	0.5794	-9.6720
2	17:37:19	111.71%	0.0468	0.2397	0.9004	1.1662	0.9677	0.5994	-10.6760
3	17:37:59	112.36%	0.0685	0.1631	0.9898	1.0357	0.7801	0.5495	-10.2340
4	17:38:38	113.60%	0.0636	-0.2928	0.8334	0.9194	0.8115	0.4356	-11.0040
5	17:39:18	112.76%	0.0450	-0.5072	0.7211	0.7733	0.7121	0.3617	-10.5780
X		112.30%	0.0588	-0.0073	0.8985	1.0749	0.8212	0.5051	-10.4330
%RSD		0.87	20.4140	5091.4000	14.3280	25.0070	11.4420	20.2310	4.8513

Run	Time	44Ca	45Sc	47Ti	51V	52Cr	54Fe	55Mn	56Fe
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	17:36:39	-3.7401	103.58%	0.0029	0.0388	-0.0189	9.1662	0.0267	-5.5757
2	17:37:19	-5.2598	104.09%	0.0109	0.0004	-0.0393	7.8727	0.0326	-5.7357
3	17:37:59	-4.9519	106.06%	0.0118	0.0146	-0.0466	7.0703	0.0243	-6.5538
4	17:38:38	-5.6454	105.57%	0.0039	0.0526	-0.0476	7.0938	0.0246	-5.8385
5	17:39:18	-4.6300	105.60%	0.0052	0.0254	-0.0240	7.9100	0.0245	-5.7989
X		-4.8454	104.98%	0.0069	0.0264	-0.0353	7.8226	0.0265	-5.9005
%RSD		14.9220	1.03	59.4970	77.2100	37.2520	10.9080	13.3420	6.4182

Run	Time	57Fe	59Co	60Ni	63Cu	65Cu	66Zn	75As	78Se
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	17:36:39	1.6127	0.0449	0.0924	0.0673	0.0424	1.6589	0.1587	-0.6645
2	17:37:19	2.2787	0.0404	0.0797	0.0794	0.0787	1.7145	0.0421	-0.5850
3	17:37:59	1.3575	0.0376	0.0757	0.0718	0.0197	1.6612	0.1603	-0.1248
4	17:38:38	0.6677	0.0326	0.0785	0.0419	0.0804	1.6400	0.1171	-0.2515
5	17:39:18	1.0829	0.0263	0.0243	0.0450	0.0589	1.6982	0.1167	-1.0203
X		1.3999	0.0364	0.0701	0.0611	0.0560	1.6746	0.1190	-0.5292
%RSD		43.0980	19.6760	37.6760	27.3630	45.7340	1.8345	40.3080	67.0210

Run	Time	82Se	83Kr	89Y	94Mo	95Mo	96Mo	97Mo	98Mo
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	17:36:39	0.1652	-0.4433	92.75%	0.0000	0.0000	0.0000	0.0000	0.0000
2	17:37:19	-0.3467	0.8827	93.60%	0.0000	0.0000	0.0000	0.0000	0.0000
3	17:37:59	0.1164	-1.2763	94.41%	0.0000	0.0000	0.0000	0.0000	0.0000
4	17:38:38	0.0125	-0.0320	94.25%	0.0000	0.0000	0.0000	0.0000	0.0000
5	17:39:18	0.1153	0.8586	94.85%	0.0000	0.0000	0.0000	0.0000	0.0000
X		0.0125	-0.0021	93.97%	0.0000	0.0000	0.0000	0.0000	0.0000
%RSD		1662.6000	44346.0000	0.87	0.0000	0.0000	0.0000	0.0000	0.0000

Run	Time	103Rh	107Ag	108Mo O	109Ag	111Cd	115In	118Sn	121Sb
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	17:36:39	95.63%	0.0189	0.6774	0.0146	0.0471	0.0000	0.0000	0.2792
2	17:37:19	96.12%	0.0180	0.1083	0.0153	0.0544	0.0000	0.0000	0.3265
3	17:37:59	96.46%	0.0194	0.2249	0.0169	0.0435	0.0000	0.0000	0.2223
4	17:38:38	97.32%	0.0204	0.5032	0.0296	0.0130	0.0000	0.0000	0.2014
5	17:39:18	97.84%	0.0122	0.0594	0.0093	0.0436	0.0000	0.0000	0.1799
X		96.67%	0.0178	0.3146	0.0172	0.0403	0.0000	0.0000	0.2419
%RSD		0.93	18.2940	84.5260	43.7700	39.4030	0.0000	0.0000	24.8220

Run	Time	135Ba	137Ba	159Tb	203Tl	205Tl	206Pb	207Pb	208Pb
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	17:36:39	0.0253	0.0688	89.31%	0.0691	0.0729	0.0592	0.0504	0.0568
2	17:37:19	0.0181	0.0308	89.27%	0.0657	0.0642	0.0682	0.0322	0.0483
3	17:37:59	0.0391	0.0681	90.21%	0.0582	0.0538	0.0571	0.0468	0.0501
4	17:38:38	0.0391	0.0389	89.79%	0.0317	0.0455	0.0456	0.0369	0.0381
5	17:39:18	0.0523	0.0177	91.67%	0.0389	0.0393	0.0216	0.0284	0.0231
X		0.0348	0.0448	90.05%	0.0527	0.0551	0.0503	0.0389	0.0433
%RSD		38.4270	50.8920	1.09	31.4970	24.7330	35.6730	24.1880	30.3500

Run	Time	209Bi	220Bkg
		ug/L	ug/L
1	17:36:39	90.37%	0.0607
2	17:37:19	90.28%	-0.5383
3	17:37:59	91.26%	-0.5383
4	17:38:38	91.47%	-0.5383
5	17:39:18	91.66%	0.0523
X		91.01%	-0.3004
%RSD		0.70	108.4700

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na	24Mg	25Mg	26Mg	27Al	39K
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	17:41:00	110.50%	1.9625	956.5700	941.3600	938.5900	920.8400	38.4750	890.8400
2	17:41:40	111.10%	2.0529	967.4800	955.9300	938.0800	926.1600	38.9420	879.1100
3	17:42:19	113.91%	2.0815	988.3400	975.2100	950.8600	942.5200	38.4710	891.8800
4	17:42:59	113.77%	2.1189	984.4100	967.9800	957.0500	928.3900	38.8600	894.6300
5	17:43:39	114.14%	1.9631	978.8000	976.7900	948.7100	921.7100	38.4730	882.5500
X		112.68%	2.0358	975.1200	963.4600	945.6600	927.9200	38.6440	887.8000
%RSD		1.54	3.4701	1.3342	1.5407	0.8656	0.9413	0.6111	0.7462

Run	Time	44Ca	45Sc	47Ti	51V	52Cr	54Fe	55Mn	56Fe
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	17:41:00	880.2400	103.49%	0.0083	9.9788	3.6470	380.3500	1.9302	381.2000
2	17:41:40	901.5100	105.75%	0.0065	9.8759	3.6444	385.6000	1.9155	384.5100
3	17:42:19	911.0000	106.12%	0.0184	10.2530	3.7196	384.1000	1.8515	386.8100
4	17:42:59	919.9300	107.59%	0.0075	10.3660	3.6841	384.4000	1.9421	383.4100
5	17:43:39	926.7200	108.50%	0.0099	9.8368	3.6742	376.5600	1.8820	377.5700
X		907.8800	106.29%	0.0101	10.0620	3.6739	382.2000	1.9043	382.7000
%RSD		1.9969	1.81	47.2510	2.3391	0.8368	0.9721	1.9488	0.9163

Run	Time	57Fe	59Co	60Ni	63Cu	65Cu	66Zn	75As	78Se
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	17:41:00	381.1100	1.8104	2.1145	4.0018	4.2586	4.4252	1.7055	8.7618
2	17:41:40	366.8000	1.9156	2.0367	4.0620	4.0985	4.5870	2.0152	9.2050
3	17:42:19	370.6700	1.8543	2.2064	4.0172	3.9654	4.6194	1.8974	8.8356
4	17:42:59	374.3400	1.8845	2.1466	3.9145	4.0825	4.5524	1.9364	9.0297
5	17:43:39	368.1300	1.9478	1.9911	4.0674	3.9586	4.2955	1.6900	8.3762
X		372.2100	1.8825	2.0991	4.0126	4.0728	4.4959	1.8489	8.8417
%RSD		1.5428	2.8291	4.0968	1.5360	3.0033	2.9824	7.8137	3.5337

Run	Time	82Se	83Kr	89Y	94Mo	95Mo	96Mo	97Mo	98Mo
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	17:41:00	8.6334	0.3551	93.08%	0.0000	0.0000	0.0000	0.0000	0.0000
2	17:41:40	9.3753	-0.1659	94.43%	0.0000	0.0000	0.0000	0.0000	0.0000
3	17:42:19	9.4418	-0.6550	94.30%	0.0000	0.0000	0.0000	0.0000	0.0000
4	17:42:59	9.3339	0.6834	95.51%	0.0000	0.0000	0.0000	0.0000	0.0000
5	17:43:39	9.0477	-0.5828	95.12%	0.0000	0.0000	0.0000	0.0000	0.0000
X		9.1664	-0.0730	94.49%	0.0000	0.0000	0.0000	0.0000	0.0000
%RSD		3.6419	799.3000	0.98	0.0000	0.0000	0.0000	0.0000	0.0000

Run	Time	103Rh	107Ag	108Mo O	109Ag	111Cd	115In	118Sn	121Sb
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	17:41:00	96.26%	1.9481	-0.0287	1.9777	1.8600	0.0000	0.0000	3.6964
2	17:41:40	97.16%	2.0221	0.2670	2.0470	1.8833	0.0000	0.0000	3.8781
3	17:42:19	97.13%	2.0336	-0.0023	2.0582	1.8705	0.0000	0.0000	3.7617
4	17:42:59	98.24%	2.0327	0.2147	2.0333	1.8668	0.0000	0.0000	3.9219
5	17:43:39	98.42%	1.9480	0.5533	1.9650	1.8763	0.0000	0.0000	3.8062
X		97.44%	1.9969	0.2008	2.0162	1.8714	0.0000	0.0000	3.8129
%RSD		0.91	2.2434	117.5100	2.0904	0.4762	0.0000	0.0000	2.3598

Run	Time	135Ba	137Ba	159Tb	203Tl	205Tl	206Pb	207Pb	208Pb
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	17:41:00	18.4320	19.1790	90.40%	1.8346	1.8484	1.9008	1.8632	1.8757
2	17:41:40	19.1390	19.1960	90.61%	1.8848	1.8930	1.9428	2.0009	1.9213
3	17:42:19	18.7470	19.0530	90.61%	1.8702	1.8673	1.7965	1.9730	1.9136
4	17:42:59	18.9260	19.1290	90.67%	1.9495	1.9346	1.8658	1.9322	1.8847
5	17:43:39	18.4460	19.3950	91.45%	1.9236	1.8753	1.8942	1.9135	1.8999
X		18.7380	19.1900	90.75%	1.8925	1.8837	1.8800	1.9365	1.8990
%RSD		1.6352	0.6637	0.45	2.3825	1.7318	2.8822	2.7579	1.0065

Run	Time	209Bi	220Bkg
		ug/L	ug/L
1	17:41:00	90.84%	-0.5383
2	17:41:40	90.94%	0.6524
3	17:42:19	91.00%	-0.5383
4	17:42:59	90.74%	-0.5383
5	17:43:39	91.55%	-0.5383
X		91.01%	-0.3002
%RSD		0.35	177.3900

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na	24Mg	25Mg	26Mg	27Al	39K
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	17:45:21	104.79%	0.4863	30.2330	┬1188.9000	1148.9000	1142.5000	┬11905.0000	┬1959.9000
2	17:46:01	104.01%	0.5031	30.0620	┬1193.7000	1151.4000	1145.0000	┬11754.0000	┬1940.6000
3	17:46:41	105.19%	0.4819	30.9730	┬1200.7000	1184.3000	1140.7000	┬11981.0000	┬1960.1000
4	17:47:21	103.85%	0.4762	31.4690	┬1207.9000	1151.8000	1168.5000	┬11805.0000	┬1947.0000
5	17:48:03	103.79%	0.4914	28.8140	1162.7000	1154.9000	1131.0000	┬11759.0000	┬1925.3000
X		104.33%	0.4878	30.3100	┬1190.8000	1158.3000	1145.5000	┬11841.0000	┬1946.6000
%RSD		0.60	2.0976	3.3362	┬1.4494	1.2683	1.2121	┬0.8353	┬0.7489

Run	Time	44Ca	45Sc	47Ti	51V	52Cr	54Fe	55Mn	56Fe
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	17:45:21	1630.0000	101.50%	21.1040	21.5650	13.5390	10989.0000	┬475.6500	┬11328.0000
2	17:46:01	1614.3000	102.49%	20.4430	21.2500	13.5050	10888.0000	┬475.7300	┬11276.0000
3	17:46:41	1655.9000	102.70%	20.6910	21.6200	13.6720	11125.0000	┬479.3100	┬11351.0000
4	17:47:21	1611.5000	103.67%	20.5970	21.6480	13.5830	10950.0000	┬471.1200	┬11134.0000
5	17:48:03	1620.6000	102.98%	20.7570	21.0700	14.0270	10851.0000	┬471.7500	┬11231.0000
X		1626.5000	102.67%	20.7180	21.4300	13.6650	10961.0000	┬474.7100	┬11264.0000
%RSD		1.1026	0.77	1.1856	1.1980	1.5503	0.9702	┬0.7046	┬0.7684

Run	Time	57Fe	59Co	60Ni	63Cu	65Cu	66Zn	75As	78Se
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	17:45:21	10729.0000	6.1918	7.3317	30.7290	31.0790	85.5020	3.3205	-0.8656
2	17:46:01	10656.0000	6.1347	7.2772	31.1520	31.2920	86.4340	3.6775	-0.4706
3	17:46:41	10639.0000	6.2892	7.4113	30.9530	31.3950	87.9850	3.6605	-0.9029
4	17:47:21	10533.0000	6.1306	7.5436	30.3480	31.0400	87.8620	3.4534	-0.6211
5	17:48:03	10524.0000	6.1710	7.3850	30.2380	31.1870	85.4950	3.5345	-0.8197
X		10616.0000	6.1835	7.3897	30.6840	31.1990	86.6560	3.5293	-0.7360
%RSD		0.8174	1.0410	1.3564	1.2681	0.4729	1.4075	4.2166	24.9870

Run	Time	82Se	83Kr	89Y	94Mo	95Mo	96Mo	97Mo	98Mo
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	17:45:21	0.2671	0.8041	94.22%	0.0000	0.0000	0.0000	0.0000	0.0000
2	17:46:01	0.8227	-1.1108	93.84%	0.0000	0.0000	0.0000	0.0000	0.0000
3	17:46:41	0.2671	0.8681	94.02%	0.0000	0.0000	0.0000	0.0000	0.0000
4	17:47:21	0.2054	0.2685	94.65%	0.0000	0.0000	0.0000	0.0000	0.0000
5	17:48:03	0.1906	0.0833	94.74%	0.0000	0.0000	0.0000	0.0000	0.0000
X		0.3506	0.1826	94.29%	0.0000	0.0000	0.0000	0.0000	0.0000
%RSD		75.9410	436.9000	0.41	0.0000	0.0000	0.0000	0.0000	0.0000

Run	Time	103Rh	107Ag	108Mo O	109Ag	111Cd	115In	118Sn	121Sb
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	17:45:21	91.89%	0.0481	-0.1435	0.0525	0.4095	0.0000	0.0000	0.2520
2	17:46:01	92.16%	0.0536	0.1090	0.0408	0.3814	0.0000	0.0000	0.2288
3	17:46:41	92.35%	0.0526	-0.2823	0.0497	0.4032	0.0000	0.0000	0.2320
4	17:47:21	92.69%	0.0621	-0.0861	0.0630	0.4330	0.0000	0.0000	0.1672
5	17:48:03	93.83%	0.0497	0.5494	0.0446	0.4138	0.0000	0.0000	0.2558
X		92.59%	0.0532	0.0293	0.0501	0.4082	0.0000	0.0000	0.2272
%RSD		0.82	10.2250	1102.0000	16.9100	4.5689	0.0000	0.0000	15.6540

Run	Time	135Ba	137Ba	159Tb	203Tl	205Tl	206Pb	207Pb	208Pb
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	17:45:21	83.6350	86.4640	87.05%	0.1445	0.1511	34.2230	31.1920	32.6690
2	17:46:01	85.4560	85.4360	87.22%	0.1462	0.1462	35.2470	32.2920	33.1760
3	17:46:41	84.4290	87.5670	87.16%	0.1511	0.1347	34.9560	32.2190	32.9960
4	17:47:21	85.5900	86.6770	87.12%	0.1433	0.1405	34.9010	32.3250	32.9700
5	17:48:03	83.8360	85.9850	88.28%	0.1406	0.1289	34.1660	31.7010	32.4480
X		84.5890	86.4260	87.37%	0.1451	0.1403	34.6980	31.9460	32.8520
%RSD		1.0667	0.9222	0.59	2.7068	6.3130	1.3810	1.5385	0.8827

Run	Time	209Bi	220Bkg
		ug/L	ug/L
1	17:45:21	87.80%	-0.5383
2	17:46:01	86.51%	0.0875
3	17:46:41	87.29%	1.9424
4	17:47:21	87.01%	0.0839
5	17:48:03	88.75%	0.0717
X		87.47%	0.3294
%RSD		0.98	285.5800

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na	24Mg	25Mg	26Mg	27Al	39K
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	17:49:51	101.77%	10.1130	28.7590	┬1148.4000	1122.7000	1134.0000	┬12048.0000	┬1883.7000
2	17:50:31	101.16%	10.5490	29.9310	┬1166.0000	1120.9000	1114.3000	┬12092.0000	┬1927.4000
3	17:51:10	102.41%	10.3720	30.3920	┬1157.9000	1123.2000	1131.9000	┬12024.0000	┬1919.8000
4	17:51:50	103.23%	10.4940	31.2130	┬1157.0000	1121.5000	1101.5000	┬11909.0000	┬1927.0000
5	17:52:30	104.01%	10.2200	31.6830	┬1164.9000	1122.1000	1120.6000	┬11834.0000	┬1894.0000
X		102.52%	10.3500	30.3960	┬1158.8000	1122.1000	1120.5000	┬11981.0000	┬1910.4000
%RSD		1.11	1.7665	3.7577	┬0.6114	0.0826	1.1909	┬0.8897	┬1.0597

Run	Time	44Ca	45Sc	47Ti	51V	52Cr	54Fe	55Mn	56Fe
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	17:49:51	1602.3000	99.74%	18.1440	117.3000	49.1970	10520.0000	┬567.1100	┬10723.0000
2	17:50:31	1617.4000	99.81%	18.0290	118.4500	49.5580	10566.0000	┬569.8900	┬10946.0000
3	17:51:10	1589.7000	100.98%	17.7100	119.4800	49.6880	10545.0000	┬564.5300	┬10712.0000
4	17:51:50	1596.8000	101.81%	18.5660	117.4300	48.7310	10494.0000	┬558.8000	┬10653.0000
5	17:52:30	1586.0000	101.90%	17.6920	117.4100	49.1840	10399.0000	┬559.7800	┬10663.0000
X		1598.4000	100.85%	18.0280	118.0100	49.2720	10505.0000	┬564.0200	┬10739.0000
%RSD		0.7719	1.04	1.9947	0.7999	0.7603	0.6206	┬0.8388	┬1.1118

Run	Time	57Fe	59Co	60Ni	63Cu	65Cu	66Zn	75As	78Se
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	17:49:51	10034.0000	95.7510	100.3300	75.9390	77.3530	175.0500	9.9862	14.9340
2	17:50:31	10247.0000	98.4990	101.9100	78.2900	78.0040	176.3300	10.0980	15.9410
3	17:51:10	10123.0000	98.0820	101.5700	77.8750	78.8230	173.8800	9.9853	15.4910
4	17:51:50	10078.0000	97.0650	99.9070	77.3920	77.9760	172.8900	9.8476	15.9230
5	17:52:30	10018.0000	97.1020	99.7840	77.2630	76.9750	173.5600	10.3520	14.8190
X		10100.0000	97.3000	100.7000	77.3520	77.8260	174.3400	10.0540	15.4210
%RSD		0.9066	1.0953	0.9699	1.1489	0.9077	0.7783	1.8768	3.4411

Run	Time	82Se	83Kr	89Y	94Mo	95Mo	96Mo	97Mo	98Mo
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	17:49:51	16.2320	-0.0037	93.25%	0.0000	0.0000	0.0000	0.0000	0.0000
2	17:50:31	16.3140	0.1043	92.39%	0.0000	0.0000	0.0000	0.0000	0.0000
3	17:51:10	16.5310	0.4434	94.07%	0.0000	0.0000	0.0000	0.0000	0.0000
4	17:51:50	15.6560	1.1298	92.92%	0.0000	0.0000	0.0000	0.0000	0.0000
5	17:52:30	16.3130	0.5153	93.77%	0.0000	0.0000	0.0000	0.0000	0.0000
X		16.2090	0.4378	93.28%	0.0000	0.0000	0.0000	0.0000	0.0000
%RSD		2.0259	101.5700	0.72	0.0000	0.0000	0.0000	0.0000	0.0000

Run	Time	103Rh	107Ag	108Mo O	109Ag	111Cd	115In	118Sn	121Sb
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	17:49:51	91.50%	9.5777	0.1486	9.6152	9.2081	0.0000	0.0000	3.5801
2	17:50:31	91.48%	9.7284	-0.2894	9.7473	9.7455	0.0000	0.0000	3.5771
3	17:51:10	92.28%	9.9161	-0.1478	9.7711	9.6344	0.0000	0.0000	3.7362
4	17:51:50	91.75%	9.8436	-0.0456	10.0530	9.6063	0.0000	0.0000	3.7428
5	17:52:30	92.48%	9.5370	-0.1071	9.4633	9.6287	0.0000	0.0000	3.5381
X		91.90%	9.7206	-0.0883	9.7301	9.5646	0.0000	0.0000	3.6349
%RSD		0.50	1.6868	181.1800	2.2449	2.1589	0.0000	0.0000	2.6671

Run	Time	135Ba	137Ba	159Tb	203Tl	205Tl	206Pb	207Pb	208Pb
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	17:49:51	442.3700	460.7900	87.09%	9.2988	9.1873	37.4530	34.6050	35.3610
2	17:50:31	446.2000	461.4500	87.13%	9.4249	9.3610	38.3600	34.6460	35.8730
3	17:51:10	447.8100	460.0000	86.80%	9.7975	9.5164	39.0880	35.7050	36.8910
4	17:51:50	446.6700	464.7700	86.23%	9.6142	9.4622	37.6440	34.9240	35.7440
5	17:52:30	442.4700	456.5600	86.97%	9.3531	9.1355	37.4880	34.6970	35.6460
X		445.1000	460.7100	86.84%	9.4977	9.3325	38.0070	34.9150	35.9030
%RSD		0.5662	0.6399	0.42	2.1656	1.7877	1.8603	1.3127	1.6256

Run	Time	209Bi	220Bkg
		ug/L	ug/L
1	17:49:51	87.29%	0.0819
2	17:50:31	87.09%	-0.5383
3	17:51:10	85.73%	0.0932
4	17:51:50	86.27%	0.7168
5	17:52:30	86.78%	-0.5383
X		86.63%	-0.0370
%RSD		0.73	1419.8000

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na	24Mg	25Mg	26Mg	27Al	39K
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	17:54:13	103.13%	0.4612	31.7550	1170.3000	1154.7000	1137.5000	↹11945.0000	↹1932.1000
2	17:54:52	103.75%	0.4702	33.4200	1177.4000	1132.1000	1130.3000	↹11904.0000	↹1952.0000
3	17:55:32	104.56%	0.4752	31.8640	1169.7000	1124.7000	1140.3000	↹11856.0000	↹1955.1000
4	17:56:12	104.92%	0.4623	31.6710	↹1177.8000	1121.5000	1119.5000	↹11739.0000	↹1965.8000
5	17:56:52	104.10%	0.4496	32.6430	1174.4000	1145.8000	1131.6000	↹11738.0000	↹1944.6000
X		104.09%	0.4637	32.2710	↹1173.9000	1135.7000	1131.8000	↹11836.0000	↹1949.9000
%RSD		0.67	2.1083	2.3245	↹0.3262	1.2443	0.7091	↹0.8012	↹0.6441

Run	Time	44Ca	45Sc	47Ti	51V	52Cr	54Fe	55Mn	56Fe
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	17:54:13	1620.1000	101.98%	19.2020	20.9200	13.3090	10923.0000	↹477.2100	↹11261.0000
2	17:54:52	1639.9000	101.43%	20.0320	21.2270	13.5200	10955.0000	↹477.3600	↹11185.0000
3	17:55:32	1612.9000	103.34%	19.3130	21.1470	13.3950	11007.0000	↹478.7200	↹11172.0000
4	17:56:12	1630.8000	103.14%	21.1410	21.4370	13.6360	10880.0000	↹473.7700	↹11103.0000
5	17:56:52	1601.3000	102.21%	18.8540	21.2210	13.6020	↹11129.0000	↹473.0400	↹11054.0000
X		1621.0000	102.42%	19.7080	21.1900	13.4920	↹10979.0000	↹476.0200	↹11155.0000
%RSD		0.9277	0.78	4.6098	0.8771	1.0246	↹0.8734	↹0.5197	↹0.7116

Run	Time	57Fe	59Co	60Ni	63Cu	65Cu	66Zn	75As	78Se
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	17:54:13	10561.0000	6.2229	7.3255	30.7850	31.3490	87.4330	3.3256	-0.8391
2	17:54:52	10464.0000	6.1315	7.5434	30.5510	30.8010	87.8700	3.3026	-0.6166
3	17:55:32	10470.0000	6.1620	7.2199	30.6610	30.8230	86.7290	3.5051	-0.6626
4	17:56:12	10466.0000	6.2163	7.3698	30.5760	30.8070	87.4980	3.4297	-0.4993
5	17:56:52	10461.0000	6.1327	7.4742	30.3480	30.6610	86.3650	3.6207	-0.7685
X		10484.0000	6.1731	7.3866	30.5840	30.8880	87.1790	3.4368	-0.6772
%RSD		0.4081	0.7166	1.7134	0.5257	0.8599	0.7047	3.8194	19.5490

Run	Time	82Se	83Kr	89Y	94Mo	95Mo	96Mo	97Mo	98Mo
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	17:54:13	0.1777	1.6283	93.89%	0.0000	0.0000	0.0000	0.0000	0.0000
2	17:54:52	0.0725	0.6105	94.35%	0.0000	0.0000	0.0000	0.0000	0.0000
3	17:55:32	0.3672	-0.1230	95.12%	0.0000	0.0000	0.0000	0.0000	0.0000
4	17:56:12	0.4107	-0.1950	95.36%	0.0000	0.0000	0.0000	0.0000	0.0000
5	17:56:52	0.2643	0.1339	95.06%	0.0000	0.0000	0.0000	0.0000	0.0000
X		0.2585	0.4109	94.76%	0.0000	0.0000	0.0000	0.0000	0.0000
%RSD		53.3700	182.5400	0.65	0.0000	0.0000	0.0000	0.0000	0.0000

Run	Time	103Rh	107Ag	108Mo O	109Ag	111Cd	115In	118Sn	121Sb
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	17:54:13	92.94%	0.0491	0.4041	0.0405	0.4095	0.0000	0.0000	0.1383
2	17:54:52	93.32%	0.0421	0.3901	0.0504	0.4088	0.0000	0.0000	0.1483
3	17:55:32	93.78%	0.0458	0.1722	0.0543	0.3999	0.0000	0.0000	0.1349
4	17:56:12	93.17%	0.0521	0.4436	0.0517	0.3785	0.0000	0.0000	0.1327
5	17:56:52	93.85%	0.0513	-0.2633	0.0401	0.4218	0.0000	0.0000	0.1440
X		93.41%	0.0481	0.2293	0.0474	0.4037	0.0000	0.0000	0.1396
%RSD		0.42	8.6483	128.6600	14.0100	3.9889	0.0000	0.0000	4.6192

Run	Time	135Ba	137Ba	159Tb	203Tl	205Tl	206Pb	207Pb	208Pb
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	17:54:13	84.3610	85.5700	87.23%	0.1289	0.1274	34.3080	31.8690	32.4880
2	17:54:52	85.2000	86.2590	86.70%	0.1394	0.1146	34.4960	31.2890	32.5260
3	17:55:32	83.7610	86.8930	87.44%	0.1437	0.1390	35.0670	32.6990	33.0050
4	17:56:12	83.6850	86.4620	87.89%	0.1389	0.1428	34.5510	31.5930	32.4400
5	17:56:52	85.1410	85.2520	87.44%	0.1231	0.1334	34.1990	31.4300	32.2650
X		84.4300	86.0870	87.34%	0.1348	0.1314	34.5240	31.7760	32.5450
%RSD		0.8594	0.7759	0.50	6.3182	8.4300	0.9699	1.7591	0.8474

Run	Time	209Bi	220Bkg
		ug/L	ug/L
1	17:54:13	87.17%	0.0828
2	17:54:52	86.60%	0.0868
3	17:55:32	87.02%	-0.5383
4	17:56:12	87.62%	0.0795
5	17:56:52	87.89%	0.0777
X		87.26%	-0.0423
%RSD		0.58	655.3700

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na	24Mg	25Mg	26Mg	27Al	39K
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	17:58:33	101.21%	0.1103	4.2371	235.7500	234.7400	234.8100	T2457.7000	396.7800
2	17:59:13	102.61%	0.1179	4.3393	241.3900	242.5700	241.9900	T2456.4000	412.4900
3	17:59:52	102.78%	0.1165	4.5080	241.6900	239.3900	241.6100	T2483.5000	409.3200
4	18:00:32	104.55%	0.1139	3.9760	241.9600	241.0000	243.3400	T2460.1000	406.8000
5	18:01:11	103.90%	0.1065	3.8483	229.5000	227.5700	227.0900	T2356.9000	380.7800
x		103.01%	0.1130	4.1817	238.0600	237.0500	237.7600	T2442.9000	401.2300
%RSD		1.25	4.1224	6.4152	2.2827	2.5548	2.8715	T2.0203	3.2043

Run	Time	44Ca	45Sc	47Ti	51V	52Cr	54Fe	55Mn	56Fe
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	17:58:33	327.0100	98.41%	4.1171	4.5243	2.7533	2213.3000	95.9720	T2328.2000
2	17:59:13	335.8200	98.82%	4.3114	4.4481	2.8668	2258.9000	98.0210	T2354.5000
3	17:59:52	322.5700	99.94%	4.4332	4.4526	2.8695	2277.7000	98.0460	T2390.9000
4	18:00:32	331.9100	100.88%	4.2169	4.3888	2.7934	2262.1000	98.0120	T2349.7000
5	18:01:11	325.8200	100.42%	4.0352	4.2152	2.7798	2179.5000	92.9270	T2280.7000
x		328.6200	99.70%	4.2228	4.4058	2.8126	2238.3000	96.5950	T2340.8000
%RSD		1.5930	1.05	3.7165	2.6527	1.8758	1.8174	2.3140	T1.7282

Run	Time	57Fe	59Co	60Ni	63Cu	65Cu	66Zn	75As	78Se
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	17:58:33	2221.8000	1.2451	1.6074	6.4244	6.7185	19.9070	0.7060	-0.5922
2	17:59:13	2218.9000	1.3241	1.5067	6.4567	6.6647	19.9890	0.7336	-0.7713
3	17:59:52	2232.6000	1.3416	1.6951	6.4106	6.7927	20.6560	0.8668	-0.9772
4	18:00:32	2197.1000	1.3157	1.5187	6.5370	6.8307	20.0480	0.7211	-0.7486
5	18:01:11	2140.5000	1.2612	1.4210	6.0725	6.3738	18.9210	0.5883	-0.5191
x		2202.2000	1.2975	1.5498	6.3803	6.6761	19.9040	0.7231	-0.7217
%RSD		1.6714	3.2342	6.7552	2.8034	2.7093	3.1371	13.6970	24.6220

Run	Time	82Se	83Kr	89Y	94Mo	95Mo	96Mo	97Mo	98Mo
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	17:58:33	0.0778	0.2488	91.09%	0.0000	0.0000	0.0000	0.0000	0.0000
2	17:59:13	0.0304	-0.4523	92.25%	0.0000	0.0000	0.0000	0.0000	0.0000
3	17:59:52	0.0616	0.4755	91.41%	0.0000	0.0000	0.0000	0.0000	0.0000
4	18:00:32	0.0752	0.2131	92.57%	0.0000	0.0000	0.0000	0.0000	0.0000
5	18:01:11	-0.4740	0.6229	92.09%	0.0000	0.0000	0.0000	0.0000	0.0000
x		-0.0458	0.2216	91.88%	0.0000	0.0000	0.0000	0.0000	0.0000
%RSD		524.3300	186.1100	0.67	0.0000	0.0000	0.0000	0.0000	0.0000

Run	Time	103Rh	107Ag	108Mo O	109Ag	111Cd	115In	118Sn	121Sb
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	17:58:33	92.87%	0.0065	0.9792	0.0098	0.1091	0.0000	0.0000	0.0726
2	17:59:13	93.84%	0.0111	0.9906	0.0154	0.0959	0.0000	0.0000	0.0502
3	17:59:52	93.84%	0.0083	0.3229	0.0096	0.0980	0.0000	0.0000	0.0443
4	18:00:32	94.14%	0.0138	0.6196	0.0058	0.0822	0.0000	0.0000	0.0442
5	18:01:11	93.97%	0.0118	0.6612	0.0071	0.0954	0.0000	0.0000	0.0288
x		93.73%	0.0103	0.7147	0.0095	0.0961	0.0000	0.0000	0.0480
%RSD		0.53	28.2920	39.0490	38.8050	9.9246	0.0000	0.0000	33.0530

Run	Time	135Ba	137Ba	159Tb	203Tl	205Tl	206Pb	207Pb	208Pb
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	17:58:33	17.2870	17.4150	88.12%	0.0126	0.0232	6.8402	6.1857	6.4220
2	17:59:13	17.4370	17.5720	88.13%	0.0240	0.0183	6.9754	6.3139	6.5036
3	17:59:52	17.5760	17.7200	87.94%	0.0318	0.0210	6.9080	6.5324	6.5574
4	18:00:32	17.8500	17.7090	88.13%	0.0295	0.0264	7.0570	6.5489	6.6789
5	18:01:11	16.0000	16.7460	89.26%	0.0276	0.0193	6.4842	6.0844	6.2236
x		17.2300	17.4320	88.32%	0.0251	0.0217	6.8530	6.3331	6.4771
%RSD		4.1685	2.3116	0.60	30.0400	14.9850	3.2282	3.2577	2.6202

Run	Time	209Bi	220Bkg
		ug/L	ug/L
1	17:58:33	89.44%	-0.5383
2	17:59:13	89.21%	-0.5383
3	17:59:52	89.72%	0.6685
4	18:00:32	89.36%	-0.5383
5	18:01:11	90.87%	0.0575
x		89.72%	-0.1778
%RSD		0.75	303.0800

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na	24Mg	25Mg	26Mg	27Al	39K
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	18:02:53	102.06%	10.2720	↹4793.9000	↹6000.6000	5800.4000	5798.2000	↹11963.0000	↹6278.6000
2	18:03:33	101.97%	10.4270	↹4881.6000	↹6023.2000	5864.8000	5817.9000	↹11999.0000	↹6316.6000
3	18:04:13	101.79%	10.5960	↹4966.5000	↹6076.8000	5879.5000	5779.0000	↹12096.0000	↹6299.1000
4	18:04:53	102.68%	10.4540	↹4890.4000	↹6017.5000	5765.5000	5812.7000	↹11895.0000	↹6371.3000
5	18:05:32	101.96%	10.1220	↹4778.2000	↹5885.3000	5667.8000	5673.0000	↹11929.0000	↹6168.1000
x		102.09%	10.3740	↹4862.1000	↹6000.7000	5795.6000	5776.2000	↹11977.0000	↹6286.7000
%RSD		0.34	1.7536	↹1.5858	↹1.1759	1.4715	1.0322	↹0.6444	↹1.1886

Run	Time	44Ca	45Sc	47Ti	51V	52Cr	54Fe	55Mn	56Fe
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	18:02:53	6008.7000	99.47%	21.0880	71.3470	31.8800	13057.0000	↹485.5600	↹13150.0000
2	18:03:33	6087.3000	99.43%	21.4090	71.6170	31.8230	12903.0000	↹485.1800	↹13168.0000
3	18:04:13	6188.4000	99.43%	21.7750	71.6670	31.7330	13190.0000	↹488.1800	↹13418.0000
4	18:04:53	6035.9000	100.21%	20.5590	71.2460	31.4410	12830.0000	↹482.8700	↹13011.0000
5	18:05:32	5999.0000	100.61%	20.5910	71.3250	31.0870	12758.0000	↹476.6100	↹13083.0000
x		6063.9000	99.83%	21.0850	71.4410	31.5930	12948.0000	↹483.6800	↹13166.0000
%RSD		1.2795	0.55	2.4891	0.2643	1.0424	1.3518	↹0.9055	↹1.1690

Run	Time	57Fe	59Co	60Ni	63Cu	65Cu	66Zn	75As	78Se
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	18:02:53	12506.0000	15.1850	16.8500	48.2240	50.4310	101.6400	12.1190	42.9520
2	18:03:33	12541.0000	15.1910	16.7280	49.6100	49.9590	101.8200	11.8380	42.9520
3	18:04:13	12708.0000	15.2760	17.3720	50.1940	50.2370	105.3800	11.8530	42.4160
4	18:04:53	12359.0000	15.0920	16.7090	49.2650	50.1010	103.7300	12.0050	42.4830
5	18:05:32	12298.0000	15.0410	16.3780	48.4020	48.8780	101.0600	12.2320	41.8560
x		12482.0000	15.1570	16.8070	49.1390	49.9210	102.7200	12.0100	42.5320
%RSD		1.2927	0.6054	2.1486	1.6816	1.2189	1.7435	1.4135	1.0676

Run	Time	82Se	83Kr	89Y	94Mo	95Mo	96Mo	97Mo	98Mo
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	18:02:53	43.6440	-0.4782	92.70%	0.0000	0.0000	0.0000	0.0000	0.0000
2	18:03:33	41.4780	0.1941	93.12%	0.0000	0.0000	0.0000	0.0000	0.0000
3	18:04:13	43.9690	0.6750	91.34%	0.0000	0.0000	0.0000	0.0000	0.0000
4	18:04:53	43.0480	0.8908	92.93%	0.0000	0.0000	0.0000	0.0000	0.0000
5	18:05:32	43.4280	-0.3987	93.51%	0.0000	0.0000	0.0000	0.0000	0.0000
x		43.1130	0.1766	92.72%	0.0000	0.0000	0.0000	0.0000	0.0000
%RSD		2.2576	348.8800	0.89	0.0000	0.0000	0.0000	0.0000	0.0000

Run	Time	103Rh	107Ag	108Mo O	109Ag	111Cd	115In	118Sn	121Sb
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	18:02:53	90.21%	9.6896	0.3990	9.7309	9.2154	0.0000	0.0000	18.1990
2	18:03:33	90.12%	9.7474	0.2797	9.6649	9.7060	0.0000	0.0000	18.4190
3	18:04:13	90.39%	9.9262	0.9295	9.8521	9.6359	0.0000	0.0000	18.3020
4	18:04:53	90.55%	9.9473	0.1595	10.0150	9.6040	0.0000	0.0000	17.9480
5	18:05:32	90.42%	9.6634	0.3018	9.6370	9.6268	0.0000	0.0000	18.2570
x		90.34%	9.7948	0.4139	9.7801	9.5576	0.0000	0.0000	18.2250
%RSD		0.19	1.3614	72.6140	1.5901	2.0410	0.0000	0.0000	0.9585

Run	Time	135Ba	137Ba	159Tb	203Tl	205Tl	206Pb	207Pb	208Pb
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	18:02:53	175.2900	179.5000	86.26%	9.6073	9.5612	44.1670	41.2560	42.2620
2	18:03:33	175.4500	181.4000	85.71%	9.5327	9.5527	44.2150	41.3050	42.4470
3	18:04:13	176.6200	181.2900	85.61%	9.6472	9.6352	44.1700	41.6340	42.2520
4	18:04:53	176.3300	178.8700	85.66%	9.6476	9.5491	44.0050	41.4960	42.5440
5	18:05:32	173.9900	177.3500	86.20%	9.5606	9.3282	43.3030	41.1470	41.8080
x		175.5300	179.6800	85.89%	9.5991	9.5253	43.9720	41.3680	42.2630
%RSD		0.5893	0.9511	0.37	0.5370	1.2145	0.8694	0.4714	0.6698

Run	Time	209Bi	220Bkg
		ug/L	ug/L
1	18:02:53	85.06%	0.0981
2	18:03:33	84.43%	0.1029
3	18:04:13	84.56%	-0.5383
4	18:04:53	85.15%	-0.5383
5	18:05:32	84.87%	-0.5383
x		84.81%	-0.2828
%RSD		0.37	123.7400

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na	24Mg	25Mg	26Mg	27Al	39K
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	18:07:15	103.14%	0.6952	70.3840	T 1913.8000	1823.6000	1825.8000	T 16031.0000	T 2530.8000
2	18:07:54	103.52%	0.6630	T 72.5570	T 1929.2000	1867.3000	1839.3000	T 16061.0000	T 2566.5000
3	18:08:34	102.54%	0.7121	T 71.1620	T 1939.6000	1886.5000	1863.3000	T 16151.0000	T 2596.0000
4	18:09:13	104.22%	0.6587	71.2060	T 1962.2000	1844.1000	1839.8000	T 15959.0000	T 2587.0000
5	18:09:53	103.37%	0.6855	70.3550	T 1926.7000	1871.7000	1866.7000	T 16167.0000	T 2543.3000
X		103.36%	0.6829	T 71.1330	T 1934.3000	1858.6000	1847.0000	T 16074.0000	T 2564.7000
%RSD		0.59	3.2685	T 1.2577	T 0.9372	1.3339	0.9432	T 0.5380	T 1.0829

Run	Time	44Ca	45Sc	47Ti	51V	52Cr	54Fe	55Mn	56Fe
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	18:07:15	4320.1000	99.78%	22.1410	30.0160	21.2210	15664.0000	T 599.7900	T 15796.0000
2	18:07:54	4463.1000	100.34%	23.0120	30.4870	21.2600	15885.0000	T 600.1900	T 15972.0000
3	18:08:34	4427.9000	101.37%	22.2210	30.5830	21.0870	15789.0000	T 606.2400	T 16246.0000
4	18:09:13	4339.3000	102.22%	22.4460	30.3380	21.1100	15667.0000	T 599.7500	T 15826.0000
5	18:09:53	4382.9000	101.33%	22.9070	30.3990	21.0930	15842.0000	T 597.9800	T 16030.0000
X		4386.7000	101.01%	22.5450	30.3650	21.1540	15769.0000	T 600.7900	T 15974.0000
%RSD		1.3591	0.95	1.7556	0.7106	0.3793	0.6392	T 0.5266	T 1.1312

Run	Time	57Fe	59Co	60Ni	63Cu	65Cu	66Zn	75As	78Se
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	18:07:15	14932.0000	8.8729	13.1870	86.0400	87.5220	281.8600	4.6321	-0.7422
2	18:07:54	15007.0000	8.9138	13.4070	86.1870	87.6440	285.1400	4.6922	-0.4793
3	18:08:34	15120.0000	8.8875	13.3090	86.3720	87.0340	286.4500	4.7448	-0.6182
4	18:09:13	15146.0000	8.8875	13.1910	86.0510	86.6200	280.2900	4.4369	-0.3656
5	18:09:53	15277.0000	8.7782	13.2770	87.1460	87.4110	282.5600	4.7413	-0.2388
X		15096.0000	8.8680	13.2740	86.3590	87.2460	283.2600	4.6494	-0.4888
%RSD		0.8806	0.5899	0.6875	0.5324	0.4790	0.8823	2.7376	40.7580

Run	Time	82Se	83Kr	89Y	94Mo	95Mo	96Mo	97Mo	98Mo
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	18:07:15	0.5955	0.1159	92.17%	0.0000	0.0000	0.0000	0.0000	0.0000
2	18:07:54	0.8094	0.1170	92.08%	0.0000	0.0000	0.0000	0.0000	0.0000
3	18:08:34	0.8747	0.4914	93.16%	0.0000	0.0000	0.0000	0.0000	0.0000
4	18:09:13	0.4008	0.5442	94.32%	0.0000	0.0000	0.0000	0.0000	0.0000
5	18:09:53	0.8423	-1.1519	93.47%	0.0000	0.0000	0.0000	0.0000	0.0000
X		0.7045	0.0233	93.04%	0.0000	0.0000	0.0000	0.0000	0.0000
%RSD		28.6610	2946.6000	1.01	0.0000	0.0000	0.0000	0.0000	0.0000

Run	Time	103Rh	107Ag	108Mo O	109Ag	111Cd	115In	118Sn	121Sb
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	18:07:15	90.09%	0.1611	0.0617	0.1773	0.8844	0.0000	0.0000	0.2051
2	18:07:54	89.66%	0.1534	-0.8030	0.1462	1.0055	0.0000	0.0000	0.2344
3	18:08:34	90.77%	0.1691	0.1605	0.1452	0.9827	0.0000	0.0000	0.2580
4	18:09:13	90.08%	0.1622	-0.7232	0.1684	1.0195	0.0000	0.0000	0.2620
5	18:09:53	91.17%	0.1553	0.1524	0.1600	0.9274	0.0000	0.0000	0.2750
X		90.35%	0.1602	-0.2303	0.1594	0.9639	0.0000	0.0000	0.2469
%RSD		0.67	3.8826	212.1900	8.7512	5.8735	0.0000	0.0000	11.1840

Run	Time	135Ba	137Ba	159Tb	203Tl	205Tl	206Pb	207Pb	208Pb
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	18:07:15	147.0800	150.1800	85.25%	0.1572	0.1627	104.4800	94.2190	98.0970
2	18:07:54	146.7700	153.9300	85.78%	0.1754	0.1594	104.8600	96.2030	98.8050
3	18:08:34	149.7000	154.9300	86.58%	0.1781	0.1759	106.6500	95.9880	99.3380
4	18:09:13	151.4800	152.8700	86.26%	0.1790	0.1744	104.7000	96.1440	99.4590
5	18:09:53	144.4300	151.8200	86.93%	0.1799	0.1634	103.8600	95.4490	98.3160
X		147.8900	152.7500	86.16%	0.1739	0.1672	104.9100	95.6000	98.8030
%RSD		1.8541	1.2083	0.77	5.4524	4.4504	0.9942	0.8657	0.6100

Run	Time	209Bi	220Bkg
		ug/L	ug/L
1	18:07:15	84.84%	0.0998
2	18:07:54	85.53%	-0.5383
3	18:08:34	86.15%	-0.5383
4	18:09:13	86.06%	0.0908
5	18:09:53	86.04%	-0.5383
X		85.72%	-0.2849
%RSD		0.64	121.8200

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na	24Mg	25Mg	26Mg	27Al	39K
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	18:11:35	102.29%	0.4423	34.4400	↹1402.6000	1353.8000	1375.1000	↹11223.0000	↹1524.3000
2	18:12:15	103.17%	0.4291	33.0110	↹1423.8000	1378.8000	1372.2000	↹11268.0000	↹1528.8000
3	18:12:54	103.72%	0.4286	34.2200	↹1408.0000	1388.9000	1360.0000	↹11366.0000	↹1570.2000
4	18:13:34	102.75%	0.4126	34.5320	↹1411.7000	1358.9000	1350.4000	↹11286.0000	↹1548.1000
5	18:14:14	104.13%	0.4152	33.5110	↹1401.2000	1355.8000	1348.5000	↹11208.0000	↹1550.2000
x		103.21%	0.4256	33.9430	↹1409.5000	1367.2000	1361.2000	↹11270.0000	↹1544.3000
%RSD		0.71	2.8242	1.9356	↹0.6414	1.1490	0.8944	↹0.5547	↹1.1944

Run	Time	44Ca	45Sc	47Ti	51V	52Cr	54Fe	55Mn	56Fe
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	18:11:35	2718.8000	100.31%	17.9740	20.3790	13.9520	11103.0000	283.0000	↹11368.0000
2	18:12:15	2725.4000	100.18%	17.5740	20.6100	14.1670	11059.0000	282.1800	↹11424.0000
3	18:12:54	2745.4000	100.82%	17.4270	20.8460	13.9190	11210.0000	281.7400	↹11406.0000
4	18:13:34	2767.7000	100.75%	17.5310	20.3750	14.1250	11157.0000	281.4000	↹11441.0000
5	18:14:14	2738.7000	101.53%	18.2730	20.2950	13.8170	11008.0000	278.5200	↹11352.0000
x		2739.2000	100.72%	17.7560	20.5010	13.9960	11107.0000	281.3700	↹11398.0000
%RSD		0.6974	0.53	2.0042	1.1015	1.0460	0.7130	0.6043	↹0.3273

Run	Time	57Fe	59Co	60Ni	63Cu	65Cu	66Zn	75As	78Se
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	18:11:35	10664.0000	4.1700	9.0053	38.0110	38.5820	209.9800	2.9497	-0.5015
2	18:12:15	10713.0000	4.2748	9.1579	38.4200	39.4880	212.1600	2.9512	-0.8129
3	18:12:54	10803.0000	4.3043	9.0992	39.2060	39.1320	213.7800	2.8268	-0.7320
4	18:13:34	10776.0000	4.1619	9.3479	38.6190	38.9350	212.3700	2.9058	-0.5884
5	18:14:14	10642.0000	4.2539	9.0622	38.2140	37.9550	210.8000	2.8684	-0.9995
x		10720.0000	4.2330	9.1345	38.4940	38.8180	211.8200	2.9004	-0.7269
%RSD		0.6492	1.5079	1.4404	1.1904	1.5027	0.6962	1.8465	26.7930

Run	Time	82Se	83Kr	89Y	94Mo	95Mo	96Mo	97Mo	98Mo
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	18:11:35	0.2721	0.5181	92.83%	0.0000	0.0000	0.0000	0.0000	0.0000
2	18:12:15	0.5145	0.1352	92.94%	0.0000	0.0000	0.0000	0.0000	0.0000
3	18:12:54	0.2403	0.9950	93.20%	0.0000	0.0000	0.0000	0.0000	0.0000
4	18:13:34	0.2107	-0.1281	93.09%	0.0000	0.0000	0.0000	0.0000	0.0000
5	18:14:14	0.5891	-0.6292	92.96%	0.0000	0.0000	0.0000	0.0000	0.0000
x		0.3654	0.1782	93.01%	0.0000	0.0000	0.0000	0.0000	0.0000
%RSD		47.5120	347.1200	0.15	0.0000	0.0000	0.0000	0.0000	0.0000

Run	Time	103Rh	107Ag	108Mo O	109Ag	111Cd	115In	118Sn	121Sb
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	18:11:35	91.01%	0.1531	0.4581	0.1491	0.7434	0.0000	0.0000	0.1408
2	18:12:15	91.52%	0.1555	-0.3314	0.1445	0.7290	0.0000	0.0000	0.1440
3	18:12:54	91.89%	0.1556	0.2781	0.1667	0.7323	0.0000	0.0000	0.1373
4	18:13:34	91.79%	0.1741	0.2445	0.1597	0.8078	0.0000	0.0000	0.1442
5	18:14:14	91.86%	0.1649	0.0733	0.1540	0.8349	0.0000	0.0000	0.1611
x		91.61%	0.1607	0.1445	0.1548	0.7695	0.0000	0.0000	0.1455
%RSD		0.40	5.4623	206.9000	5.6307	6.3191	0.0000	0.0000	6.3049

Run	Time	135Ba	137Ba	159Tb	203Tl	205Tl	206Pb	207Pb	208Pb
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	18:11:35	102.4100	105.9700	86.65%	0.1214	0.1164	87.7810	80.1330	82.5520
2	18:12:15	103.0900	105.6000	86.57%	0.1209	0.1280	88.9130	79.9460	83.1940
3	18:12:54	102.4700	103.9200	87.80%	0.1280	0.1356	87.5460	80.0860	82.8040
4	18:13:34	103.5300	105.7200	87.30%	0.1315	0.1258	87.5960	80.3010	82.7000
5	18:14:14	101.6500	104.2900	87.90%	0.1387	0.1344	86.0580	78.0840	80.9910
x		102.6300	105.1000	87.24%	0.1281	0.1280	87.5790	79.7100	82.4480
%RSD		0.6973	0.8827	0.71	5.7859	6.0228	1.1609	1.1512	1.0291

Run	Time	209Bi	220Bkg
		ug/L	ug/L
1	18:11:35	86.68%	-0.5383
2	18:12:15	86.31%	-0.5383
3	18:12:54	87.35%	-0.5383
4	18:13:34	86.81%	0.7090
5	18:14:14	88.40%	-0.5383
x		87.11%	-0.2889
%RSD		0.93	193.1000

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na	24Mg	25Mg	26Mg	27Al	39K
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	18:15:56	101.68%	0.4857	47.2290	↹6786.3000	6619.7000	6557.3000	↹12652.0000	↹2017.6000
2	18:16:35	103.03%	0.5272	49.2860	↹6808.0000	6670.8000	6636.6000	↹12799.0000	↹2082.8000
3	18:17:15	103.17%	0.4816	50.1080	↹6807.8000	6651.1000	6762.4000	↹12803.0000	↹2083.5000
4	18:17:55	103.21%	0.4857	49.1350	↹6797.4000	6659.9000	6654.1000	↹12680.0000	↹2102.3000
5	18:18:35	104.75%	0.4812	47.7840	↹6680.6000	6442.7000	6491.2000	↹12586.0000	↹2017.2000
x		103.17%	0.4923	48.7090	↹6776.0000	6608.8000	6620.3000	↹12704.0000	↹2060.7000
%RSD		1.05	3.9868	2.4116	↹0.7983	1.4347	1.5523	↹0.7492	↹1.9541

Run	Time	44Ca	45Sc	47Ti	51V	52Cr	54Fe	55Mn	56Fe
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	18:15:56	12198.0000	100.10%	17.1870	24.7310	16.0010	13639.0000	↹581.1700	↹13966.0000
2	18:16:35	12406.0000	99.34%	17.9280	25.1680	16.1030	13756.0000	↹589.6900	↹14139.0000
3	18:17:15	12414.0000	100.74%	17.3360	25.0650	16.2800	13998.0000	↹592.2100	↹14078.0000
4	18:17:55	12436.0000	100.46%	16.9900	24.6970	15.9670	13762.0000	↹590.5300	↹13967.0000
5	18:18:35	12178.0000	101.66%	16.7310	24.1790	15.8590	13654.0000	↹579.3400	↹13746.0000
x		12327.0000	100.46%	17.2340	24.7680	16.0420	13762.0000	↹586.5900	↹13979.0000
%RSD		1.0303	0.85	2.6050	1.5661	0.9919	1.0438	↹1.0040	↹1.0728

Run	Time	57Fe	59Co	60Ni	63Cu	65Cu	66Zn	75As	78Se
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	18:15:56	13208.0000	5.8076	9.8635	90.2110	89.2290	142.0500	6.5276	-1.0428
2	18:16:35	13333.0000	5.7584	9.8996	90.6140	92.7420	144.2100	6.6219	-0.8466
3	18:17:15	13346.0000	5.8468	9.9581	90.8160	92.1810	144.7100	6.8911	-0.6860
4	18:17:55	13315.0000	5.7573	10.1990	91.0670	91.5690	143.4600	6.5262	-0.7403
5	18:18:35	13033.0000	5.6669	9.9346	89.6440	90.8830	141.0600	6.5213	-0.6976
x		13247.0000	5.7674	9.9709	90.4710	91.3210	143.1000	6.6176	-0.8027
%RSD		0.9913	1.1699	1.3264	0.6167	1.4881	1.0611	2.3957	18.4930

Run	Time	82Se	83Kr	89Y	94Mo	95Mo	96Mo	97Mo	98Mo
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	18:15:56	0.3159	0.3649	93.35%	0.0000	0.0000	0.0000	0.0000	0.0000
2	18:16:35	0.3473	-0.6913	93.24%	0.0000	0.0000	0.0000	0.0000	0.0000
3	18:17:15	0.6588	-2.1046	94.02%	0.0000	0.0000	0.0000	0.0000	0.0000
4	18:17:55	0.7645	-0.4793	93.92%	0.0000	0.0000	0.0000	0.0000	0.0000
5	18:18:35	0.3558	-1.1982	94.58%	0.0000	0.0000	0.0000	0.0000	0.0000
x		0.4885	-0.8217	93.82%	0.0000	0.0000	0.0000	0.0000	0.0000
%RSD		42.5150	111.0400	0.58	0.0000	0.0000	0.0000	0.0000	0.0000

Run	Time	103Rh	107Ag	108Mo O	109Ag	111Cd	115In	118Sn	121Sb
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	18:15:56	92.01%	0.1031	0.2590	0.0918	0.5436	0.0000	0.0000	0.1176
2	18:16:35	91.31%	0.0917	-0.2191	0.0883	0.5602	0.0000	0.0000	0.1066
3	18:17:15	91.57%	0.1117	0.0593	0.1071	0.4840	0.0000	0.0000	0.0934
4	18:17:55	93.09%	0.1038	0.0930	0.1028	0.5402	0.0000	0.0000	0.1205
5	18:18:35	92.71%	0.1090	-0.6384	0.0884	0.5042	0.0000	0.0000	0.1173
x		92.14%	0.1038	-0.0892	0.0957	0.5264	0.0000	0.0000	0.1111
%RSD		0.81	7.4085	394.1900	9.0990	5.9460	0.0000	0.0000	10.0650

Run	Time	135Ba	137Ba	159Tb	203Tl	205Tl	206Pb	207Pb	208Pb
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	18:15:56	90.7060	93.8030	87.95%	0.1294	0.1355	57.1000	52.0670	53.4100
2	18:16:35	92.2440	97.2620	87.22%	0.1264	0.1319	57.0100	51.6080	53.3390
3	18:17:15	95.3210	97.3420	88.15%	0.1355	0.1393	57.5510	52.0800	53.8720
4	18:17:55	91.8210	94.5400	89.05%	0.1514	0.1403	56.9530	51.7160	53.1530
5	18:18:35	89.9740	94.1350	89.20%	0.1561	0.1333	55.8920	50.8980	52.3850
x		92.0130	95.4170	88.31%	0.1397	0.1361	56.9010	51.6740	53.2320
%RSD		2.2339	1.8250	0.93	9.5041	2.6999	1.0746	0.9324	1.0187

Run	Time	209Bi	220Bkg
		ug/L	ug/L
1	18:15:56	86.77%	-0.5383
2	18:16:35	87.42%	0.0809
3	18:17:15	87.48%	-0.5383
4	18:17:55	88.33%	0.0746
5	18:18:35	88.55%	-0.5383
x		87.71%	-0.2919
%RSD		0.83	115.6100

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na	24Mg	25Mg	26Mg	27Al	39K
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	18:20:16	100.79%	0.6599	58.3790	↹1521.4000	1480.4000	1470.6000	↹14417.0000	↹2564.9000
2	18:20:55	102.28%	0.6532	58.3070	↹1514.3000	1484.8000	1476.4000	↹14524.0000	↹2631.4000
3	18:21:35	101.38%	0.6599	59.1390	↹1532.2000	1488.6000	1500.2000	↹14710.0000	↹2650.9000
4	18:22:14	101.96%	0.7444	↹56.9150	↹1514.6000	1469.2000	1471.5000	↹14502.0000	↹2646.0000
5	18:22:54	101.91%	0.6371	56.0010	↹1494.2000	1447.3000	1419.5000	↹14217.0000	↹2554.5000
x		101.66%	0.6709	↹57.7480	↹1515.4000	1474.0000	1467.7000	↹14474.0000	↹2609.6000
%RSD		0.58	6.2774	↹2.1890	↹0.9156	1.1286	2.0095	↹1.2363	↹1.7702

Run	Time	44Ca	45Sc	47Ti	51V	52Cr	54Fe	55Mn	56Fe
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	18:20:16	1760.3000	98.61%	17.6270	29.0290	19.7050	15700.0000	286.3800	↹15933.0000
2	18:20:55	1767.1000	99.57%	17.5320	28.8330	19.7410	15781.0000	286.1300	↹16054.0000
3	18:21:35	1778.8000	99.64%	17.8320	28.4620	19.9390	15852.0000	289.0900	↹16118.0000
4	18:22:14	1757.5000	100.25%	17.6110	29.0670	19.7660	15512.0000	282.6400	↹15656.0000
5	18:22:54	1718.6000	100.13%	17.0090	28.1300	19.2870	15484.0000	278.6200	↹15574.0000
x		1756.5000	99.64%	17.5220	28.7040	19.6870	15666.0000	284.5700	↹15867.0000
%RSD		1.2936	0.65	1.7548	1.3951	1.2255	1.0392	1.4196	↹1.5200

Run	Time	57Fe	59Co	60Ni	63Cu	65Cu	66Zn	75As	78Se
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	18:20:16	15018.0000	5.7276	11.1610	58.2370	58.9930	115.1400	3.4537	-0.6964
2	18:20:55	15181.0000	5.6852	11.1920	59.1570	59.6220	115.3700	3.2473	-0.9945
3	18:21:35	15184.0000	5.6648	11.3820	58.1430	59.3420	115.1900	3.3926	-0.8934
4	18:22:14	14948.0000	5.6027	11.2060	56.9680	58.4040	112.2000	3.3039	-1.2031
5	18:22:54	14871.0000	5.5330	10.8960	56.2650	56.8330	111.1400	3.3427	-0.8021
x		15040.0000	5.6426	11.1680	57.7540	58.6390	113.8100	3.3480	-0.9179
%RSD		0.9287	1.3479	1.5631	1.9718	1.8880	1.7482	2.3739	21.1140

Run	Time	82Se	83Kr	89Y	94Mo	95Mo	96Mo	97Mo	98Mo
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	18:20:16	0.7149	-0.3490	92.76%	0.0000	0.0000	0.0000	0.0000	0.0000
2	18:20:55	0.0745	1.0116	93.10%	0.0000	0.0000	0.0000	0.0000	0.0000
3	18:21:35	0.5278	0.3677	93.36%	0.0000	0.0000	0.0000	0.0000	0.0000
4	18:22:14	0.5811	-0.5046	94.49%	0.0000	0.0000	0.0000	0.0000	0.0000
5	18:22:54	0.6113	0.0573	94.44%	0.0000	0.0000	0.0000	0.0000	0.0000
x		0.5019	0.1166	93.63%	0.0000	0.0000	0.0000	0.0000	0.0000
%RSD		49.4990	519.8500	0.84	0.0000	0.0000	0.0000	0.0000	0.0000

Run	Time	103Rh	107Ag	108Mo O	109Ag	111Cd	115In	118Sn	121Sb
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	18:20:16	90.76%	0.0417	0.4570	0.0363	0.2850	0.0000	0.0000	0.1043
2	18:20:55	91.60%	0.0347	0.0746	0.0458	0.2676	0.0000	0.0000	0.0728
3	18:21:35	90.51%	0.0488	0.0705	0.0480	0.3368	0.0000	0.0000	0.0856
4	18:22:14	92.24%	0.0449	-0.0371	0.0568	0.2688	0.0000	0.0000	0.1077
5	18:22:54	92.01%	0.0507	-0.0903	0.0404	0.2993	0.0000	0.0000	0.0952
x		91.43%	0.0442	0.0949	0.0454	0.2915	0.0000	0.0000	0.0931
%RSD		0.83	14.3010	225.8300	17.2030	9.7701	0.0000	0.0000	15.2780

Run	Time	135Ba	137Ba	159Tb	203Tl	205Tl	206Pb	207Pb	208Pb
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	18:20:16	116.9800	117.8400	87.85%	0.1279	0.1273	31.6890	28.7690	29.8520
2	18:20:55	116.6800	119.3300	87.88%	0.1351	0.1351	32.3100	28.5900	30.1530
3	18:21:35	118.4300	122.0900	88.47%	0.1433	0.1348	32.4350	29.1970	30.4970
4	18:22:14	116.5600	118.5000	88.67%	0.1344	0.1393	31.8240	29.4870	30.2530
5	18:22:54	112.5400	114.5600	89.20%	0.1306	0.1376	31.6940	28.5250	29.5220
x		116.2400	118.4600	88.42%	0.1343	0.1348	31.9900	28.9140	30.0560
%RSD		1.8907	2.2924	0.64	4.3325	3.3924	1.1121	1.4323	1.2550

Run	Time	209Bi	220Bkg
		ug/L	ug/L
1	18:20:16	88.05%	0.6915
2	18:20:55	88.35%	-0.5383
3	18:21:35	88.35%	0.0745
4	18:22:14	88.69%	0.0721
5	18:22:54	89.72%	-0.5383
x		88.63%	-0.0477
%RSD		0.73	1077.1000

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na	24Mg	25Mg	26Mg	27Al	39K
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	18:24:35	100.56%	0.3925	32.6060	τ1338.2000	1307.3000	1302.3000	τ11807.0000	1654.8000
2	18:25:15	102.78%	0.4515	32.9370	τ1347.1000	1300.3000	1310.1000	τ11723.0000	τ1631.1000
3	18:25:54	102.62%	0.4017	33.2400	τ1325.5000	1272.1000	1301.0000	τ11734.0000	τ1627.4000
4	18:26:34	101.39%	0.4343	33.4070	τ1332.5000	1292.2000	1310.6000	τ11659.0000	τ1622.9000
5	18:27:14	103.76%	0.4016	32.4180	τ1317.6000	1290.2000	1260.6000	τ11476.0000	1624.2000
X		102.22%	0.4163	32.9210	τ1332.2000	1292.4000	1296.9000	τ11680.0000	τ1632.1000
%RSD		1.23	6.0781	1.2613	τ0.8514	1.0253	1.6029	τ1.0761	τ0.8017

Run	Time	44Ca	45Sc	47Ti	51V	52Cr	54Fe	55Mn	56Fe
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	18:24:35	1859.7000	97.92%	21.3000	22.1380	15.4630	10549.0000	329.9700	τ10858.0000
2	18:25:15	1902.7000	98.42%	22.0440	22.1330	15.7940	10518.0000	329.3000	τ10891.0000
3	18:25:54	1869.8000	100.35%	21.0630	22.0640	15.5830	10455.0000	326.4400	τ10798.0000
4	18:26:34	1861.1000	100.74%	21.2310	21.6680	15.1140	10405.0000	323.7700	τ10630.0000
5	18:27:14	1832.4000	99.69%	20.9490	21.5420	14.9610	10319.0000	320.5100	τ10635.0000
X		1865.1000	99.42%	21.3170	21.9090	15.3830	10449.0000	326.0000	τ10762.0000
%RSD		1.3543	1.22	2.0135	1.2898	2.2161	0.8790	1.2073	τ1.1460

Run	Time	57Fe	59Co	60Ni	63Cu	65Cu	66Zn	75As	78Se
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	18:24:35	10235.0000	4.9855	8.3764	36.4410	36.6630	133.4200	3.0140	-1.0995
2	18:25:15	10204.0000	5.0330	8.5694	36.2970	36.6620	135.3400	3.0332	-0.6545
3	18:25:54	10193.0000	5.0741	8.6081	36.3560	36.9450	133.4500	3.0625	-1.0476
4	18:26:34	10007.0000	4.9457	8.2574	36.5250	36.8110	130.8100	3.0471	-0.5333
5	18:27:14	10023.0000	4.8734	8.3219	35.8420	36.9610	132.0000	3.0009	-0.9330
X		10133.0000	4.9823	8.4266	36.2920	36.8090	133.0000	3.0315	-0.8536
%RSD		1.0700	1.5609	1.8330	0.7330	0.3954	1.2834	0.8160	29.0950

Run	Time	82Se	83Kr	89Y	94Mo	95Mo	96Mo	97Mo	98Mo
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	18:24:35	0.4143	-0.4351	92.02%	0.0000	0.0000	0.0000	0.0000	0.0000
2	18:25:15	0.3936	0.0113	93.15%	0.0000	0.0000	0.0000	0.0000	0.0000
3	18:25:54	0.3313	0.1806	93.25%	0.0000	0.0000	0.0000	0.0000	0.0000
4	18:26:34	0.3770	-0.2553	93.13%	0.0000	0.0000	0.0000	0.0000	0.0000
5	18:27:14	0.1952	0.1775	93.40%	0.0000	0.0000	0.0000	0.0000	0.0000
X		0.3423	-0.0642	92.99%	0.0000	0.0000	0.0000	0.0000	0.0000
%RSD		25.6310	425.3100	0.59	0.0000	0.0000	0.0000	0.0000	0.0000

Run	Time	103Rh	107Ag	108Mo O	109Ag	111Cd	115In	118Sn	121Sb
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	18:24:35	91.75%	0.1198	-0.1766	0.1198	0.4804	0.0000	0.0000	0.1519
2	18:25:15	91.72%	0.1199	0.0719	0.1085	0.4934	0.0000	0.0000	0.1354
3	18:25:54	91.82%	0.1234	0.0596	0.1092	0.4118	0.0000	0.0000	0.1568
4	18:26:34	92.27%	0.1480	-0.2531	0.1181	0.4470	0.0000	0.0000	0.1361
5	18:27:14	92.86%	0.1194	-0.2236	0.0910	0.4094	0.0000	0.0000	0.1221
X		92.09%	0.1261	-0.1043	0.1093	0.4484	0.0000	0.0000	0.1405
%RSD		0.53	9.7716	151.1700	10.4770	8.5712	0.0000	0.0000	9.9351

Run	Time	135Ba	137Ba	159Tb	203Tl	205Tl	206Pb	207Pb	208Pb
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	18:24:35	71.8830	75.4510	89.64%	0.1262	0.1273	56.9270	51.4540	53.0320
2	18:25:15	73.0960	75.5340	88.96%	0.1294	0.1306	57.0970	50.8300	53.0980
3	18:25:54	74.4150	74.7130	89.37%	0.1367	0.1386	57.8830	51.3890	53.6490
4	18:26:34	73.4520	76.3370	88.54%	0.1180	0.1338	56.2970	50.6360	52.7130
5	18:27:14	72.2620	73.7350	87.94%	0.1358	0.1304	55.4770	49.8050	51.5540
X		73.0220	75.1540	88.89%	0.1292	0.1321	56.7360	50.8230	52.8090
%RSD		1.3703	1.3033	0.76	5.9225	3.2466	1.5913	1.3160	1.4734

Run	Time	209Bi	220Bkg
		ug/L	ug/L
1	18:24:35	89.23%	-0.5383
2	18:25:15	89.58%	-0.5383
3	18:25:54	89.38%	-0.5383
4	18:26:34	89.42%	0.0671
5	18:27:14	88.89%	0.0707
X		89.30%	-0.2954
%RSD		0.29	112.5900

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na	24Mg	25Mg	26Mg	27Al	39K
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	18:28:55	102.95%	0.4218	24.3930	920.5400	918.2700	893.6400	T 10278.0000	T 1541.8000
2	18:29:34	103.62%	0.3884	24.6380	922.5000	916.1700	911.0900	T 10380.0000	T 1563.2000
3	18:30:14	103.67%	0.4479	25.6230	934.7100	918.2900	915.4100	T 10213.0000	T 1564.3000
4	18:30:54	105.09%	0.3911	25.6540	925.2800	905.7800	910.9800	T 10231.0000	1596.1000
5	18:31:33	105.44%	0.4042	24.0710	946.1600	899.8900	895.2800	T 10286.0000	1587.6000
X		104.15%	0.4107	24.8760	929.8400	911.6800	905.2800	T 10278.0000	T 1570.6000
%RSD		1.02	6.0095	2.9139	1.1423	0.9195	1.1105	T 0.6318	T 1.3747

Run	Time	44Ca	45Sc	47Ti	51V	52Cr	54Fe	55Mn	56Fe
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	18:28:55	1187.2000	99.39%	17.9210	18.5990	12.0820	9764.5000	T 417.3500	T 10134.0000
2	18:29:34	1184.7000	100.06%	19.0000	18.8590	11.9840	9906.7000	T 415.4900	T 10185.0000
3	18:30:14	1164.6000	100.36%	17.4130	19.1980	12.3650	T 10036.0000	T 417.1300	T 10134.0000
4	18:30:54	1175.6000	100.38%	17.9400	18.3830	11.9230	9756.0000	T 415.0100	T 9984.6000
5	18:31:33	1168.1000	100.39%	18.0890	18.8970	12.1490	9729.4000	T 408.2500	T 9906.4000
X		1176.0000	100.12%	18.0730	18.7870	12.1010	T 9838.6000	T 414.6500	T 10069.0000
%RSD		0.8415	0.43	3.1965	1.6512	1.4158	T 1.3255	T 0.8959	T 1.1693

Run	Time	57Fe	59Co	60Ni	63Cu	65Cu	66Zn	75As	78Se
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	18:28:55	9463.9000	5.3447	6.5621	54.5490	55.1850	78.7800	3.0603	-1.2441
2	18:29:34	9460.0000	5.3858	6.4378	54.5400	54.5380	78.2960	2.9638	-1.3552
3	18:30:14	9524.2000	5.3735	6.3041	54.5970	56.0720	79.6090	3.1111	-0.9041
4	18:30:54	9323.0000	5.4153	6.7939	54.1440	54.3500	79.4320	3.0279	-0.8535
5	18:31:33	9423.6000	5.3473	6.2398	53.8220	54.9240	77.8080	3.0849	-0.7688
X		9439.0000	5.3733	6.4675	54.3300	55.0140	78.7850	3.0496	-1.0252
%RSD		0.7859	0.5437	3.4132	0.6218	1.2276	0.9607	1.8667	25.1880

Run	Time	82Se	83Kr	89Y	94Mo	95Mo	96Mo	97Mo	98Mo
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	18:28:55	0.1514	0.6627	92.64%	0.0000	0.0000	0.0000	0.0000	0.0000
2	18:29:34	0.3937	-0.0487	92.86%	0.0000	0.0000	0.0000	0.0000	0.0000
3	18:30:14	0.2571	0.1404	92.82%	0.0000	0.0000	0.0000	0.0000	0.0000
4	18:30:54	0.5875	-0.3911	93.39%	0.0000	0.0000	0.0000	0.0000	0.0000
5	18:31:33	-0.0318	0.5130	94.02%	0.0000	0.0000	0.0000	0.0000	0.0000
X		0.2716	0.1753	93.15%	0.0000	0.0000	0.0000	0.0000	0.0000
%RSD		86.6390	242.7100	0.60	0.0000	0.0000	0.0000	0.0000	0.0000

Run	Time	103Rh	107Ag	108Mo O	109Ag	111Cd	115In	118Sn	121Sb
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	18:28:55	91.31%	0.0443	0.3028	0.0339	0.4351	0.0000	0.0000	0.1357
2	18:29:34	91.68%	0.0432	0.2187	0.0448	0.3947	0.0000	0.0000	0.1308
3	18:30:14	91.67%	0.0441	0.1334	0.0424	0.3842	0.0000	0.0000	0.1157
4	18:30:54	92.05%	0.0382	0.3146	0.0413	0.4106	0.0000	0.0000	0.1117
5	18:31:33	91.95%	0.0423	0.4302	0.0384	0.3821	0.0000	0.0000	0.1112
X		91.73%	0.0424	0.2799	0.0402	0.4013	0.0000	0.0000	0.1210
%RSD		0.32	5.8221	39.7510	10.4040	5.4757	0.0000	0.0000	9.4524

Run	Time	135Ba	137Ba	159Tb	203Tl	205Tl	206Pb	207Pb	208Pb
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	18:28:55	70.7970	71.8760	87.86%	0.1088	0.1022	30.0640	27.3230	28.2740
2	18:29:34	69.2800	71.9440	88.11%	0.1070	0.1150	29.7160	27.5340	28.3850
3	18:30:14	70.4110	71.2650	87.24%	0.1321	0.1154	30.4510	27.3220	28.4950
4	18:30:54	70.4240	71.7610	86.81%	0.0995	0.1119	29.8990	27.1350	28.3500
5	18:31:33	69.6940	71.4150	87.17%	0.1149	0.1067	29.6330	27.5030	28.1170
X		70.1210	71.6520	87.44%	0.1125	0.1102	29.9530	27.3630	28.3240
%RSD		0.8797	0.4146	0.61	10.9110	5.1742	1.0837	0.5894	0.4960

Run	Time	209Bi	220Bkg
		ug/L	ug/L
1	18:28:55	87.63%	-0.5383
2	18:29:34	88.17%	0.0757
3	18:30:14	88.10%	0.0762
4	18:30:54	87.80%	0.0783
5	18:31:33	87.83%	1.3109
X		87.91%	0.2006
%RSD		0.25	336.7700

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na	24Mg	25Mg	26Mg	27Al	39K
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	18:33:14	101.73%	0.5426	35.7740	↹1497.3000	1434.4000	1424.9000	↹12809.0000	↹2127.9000
2	18:33:53	102.50%	0.5501	35.8070	↹1495.0000	1468.1000	1456.7000	↹12949.0000	↹2150.0000
3	18:34:33	103.90%	0.5885	36.6980	↹1498.1000	1442.8000	1456.0000	↹12849.0000	↹2152.4000
4	18:35:13	103.21%	0.5745	37.1700	↹1497.1000	1447.6000	1449.8000	↹12810.0000	↹2172.4000
5	18:35:53	103.56%	0.5211	35.3110	↹1470.6000	1423.4000	1396.4000	↹12856.0000	↹2102.6000
X		102.98%	0.5554	36.1520	↹1491.6000	1443.2000	1436.8000	↹12855.0000	↹2141.0000
%RSD		0.84	4.7910	2.0990	↹0.7904	1.1527	1.8115	↹0.4450	↹1.2465

Run	Time	44Ca	45Sc	47Ti	51V	52Cr	54Fe	55Mn	56Fe
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	18:33:14	2398.1000	98.89%	21.7270	22.4800	17.7540	12488.0000	↹499.9600	↹12724.0000
2	18:33:53	2413.6000	99.20%	22.1500	22.6710	17.5300	12591.0000	↹502.4800	↹12971.0000
3	18:34:33	2444.4000	100.06%	22.3610	22.7160	18.0050	12578.0000	↹506.3000	↹12944.0000
4	18:35:13	2416.3000	99.89%	21.5660	21.9880	17.5240	12388.0000	↹501.6600	↹12821.0000
5	18:35:53	2420.3000	100.01%	22.3160	22.1760	17.4340	12424.0000	↹489.6400	↹12629.0000
X		2418.5000	99.61%	22.0240	22.4060	17.6490	12494.0000	↹500.0100	↹12818.0000
%RSD		0.6926	0.53	1.6254	1.4104	1.3095	0.7231	↹1.2490	↹1.1298

Run	Time	57Fe	59Co	60Ni	63Cu	65Cu	66Zn	75As	78Se
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	18:33:14	11917.0000	6.6090	9.8880	30.7150	31.2260	253.6000	3.5228	-0.8695
2	18:33:53	12036.0000	6.4817	9.9019	30.5240	31.2560	261.2200	3.7890	-1.0519
3	18:34:33	12116.0000	6.4787	10.0100	31.0170	31.3990	260.8900	3.5860	-0.9357
4	18:35:13	11953.0000	6.5128	10.1160	30.6970	30.9980	257.3000	3.5645	-1.1443
5	18:35:53	11918.0000	6.3995	9.8205	30.3090	30.6550	253.3200	3.7583	-0.5616
X		11988.0000	6.4963	9.9471	30.6520	31.1070	257.2600	3.6441	-0.9126
%RSD		0.7212	1.1639	1.1666	0.8524	0.9338	1.4774	3.3172	24.4220

Run	Time	82Se	83Kr	89Y	94Mo	95Mo	96Mo	97Mo	98Mo
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	18:33:14	0.3969	0.4328	92.30%	0.0000	0.0000	0.0000	0.0000	0.0000
2	18:33:53	0.5059	0.1997	91.88%	0.0000	0.0000	0.0000	0.0000	0.0000
3	18:34:33	0.6106	-0.7105	92.17%	0.0000	0.0000	0.0000	0.0000	0.0000
4	18:35:13	0.3516	-0.7044	92.06%	0.0000	0.0000	0.0000	0.0000	0.0000
5	18:35:53	0.8985	-1.1652	92.44%	0.0000	0.0000	0.0000	0.0000	0.0000
X		0.5527	-0.3895	92.17%	0.0000	0.0000	0.0000	0.0000	0.0000
%RSD		39.4220	173.5300	0.24	0.0000	0.0000	0.0000	0.0000	0.0000

Run	Time	103Rh	107Ag	108Mo O	109Ag	111Cd	115In	118Sn	121Sb
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	18:33:14	90.13%	0.0649	0.1659	0.0840	0.6169	0.0000	0.0000	0.1690
2	18:33:53	90.40%	0.0708	-0.3039	0.0784	0.6798	0.0000	0.0000	0.1759
3	18:34:33	90.06%	0.0898	-0.0283	0.0731	0.7118	0.0000	0.0000	0.2129
4	18:35:13	90.84%	0.0800	0.9515	0.0713	0.6451	0.0000	0.0000	0.1477
5	18:35:53	91.32%	0.0639	0.2187	0.0716	0.6706	0.0000	0.0000	0.1890
X		90.55%	0.0739	0.2008	0.0757	0.6648	0.0000	0.0000	0.1789
%RSD		0.58	14.8160	232.5600	7.1795	5.3983	0.0000	0.0000	13.5340

Run	Time	135Ba	137Ba	159Tb	203Tl	205Tl	206Pb	207Pb	208Pb
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	18:33:14	108.9700	113.5600	85.53%	0.1080	0.1291	88.5650	80.5550	83.2130
2	18:33:53	109.1500	115.1400	86.58%	0.1422	0.1265	89.3520	81.6080	84.4350
3	18:34:33	112.4100	114.7500	85.78%	0.1520	0.1468	91.0880	82.0520	85.1300
4	18:35:13	109.4200	114.2600	85.40%	0.1591	0.1389	90.2960	82.0840	84.7310
5	18:35:53	107.1100	111.7100	86.81%	0.1360	0.1437	86.9570	80.3060	82.0880
X		109.4100	113.8900	86.02%	0.1394	0.1370	89.2520	81.3210	83.9190
%RSD		1.7413	1.1853	0.74	14.1140	6.4854	1.7900	1.0316	1.4884

Run	Time	209Bi	220Bkg
		ug/L	ug/L
1	18:33:14	86.65%	0.0865
2	18:33:53	86.81%	-0.5383
3	18:34:33	86.45%	0.0879
4	18:35:13	85.80%	0.7237
5	18:35:53	87.06%	0.0835
X		86.55%	0.0887
%RSD		0.55	503.2200

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na	24Mg	25Mg	26Mg	27Al	39K
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	18:37:34	101.91%	0.7550	60.5100	1610.1000	1572.4000	1539.4000	17083.0000	2729.2000
2	18:38:14	103.39%	0.7703	63.2050	1626.7000	1540.0000	1559.4000	16962.0000	2737.8000
3	18:38:53	103.50%	0.7734	62.6350	1624.3000	1564.5000	1561.7000	17007.0000	2755.4000
4	18:39:33	104.60%	0.7613	76.4530	1614.8000	1547.9000	1572.2000	16956.0000	2739.8000
5	18:40:12	103.64%	0.7969	61.1670	1612.6000	1561.4000	1558.3000	16987.0000	2780.8000
X		103.41%	0.7714	64.7940	1617.7000	1557.2000	1558.2000	16999.0000	2748.6000
%RSD		0.93	2.0762	10.1980	0.4558	0.8397	0.7596	0.3016	0.7397

Run	Time	44Ca	45Sc	47Ti	51V	52Cr	54Fe	55Mn	56Fe
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	18:37:34	1619.1000	99.30%	25.6170	32.8500	21.8330	17293.0000	346.5800	17312.0000
2	18:38:14	1644.7000	100.09%	26.3900	33.2150	22.2010	17444.0000	351.4800	17343.0000
3	18:38:53	1646.1000	100.48%	26.7790	33.5740	22.3610	17688.0000	354.1400	17541.0000
4	18:39:33	1646.6000	100.65%	25.8300	32.4730	21.9380	16963.0000	339.4300	17064.0000
5	18:40:12	1651.2000	100.00%	26.4850	33.0520	21.9000	17471.0000	351.3900	17603.0000
X		1641.6000	100.10%	26.2200	33.0330	22.0470	17372.0000	348.6000	17373.0000
%RSD		0.7774	0.52	1.8358	1.2418	1.0192	1.5448	1.6668	1.2263

Run	Time	57Fe	59Co	60Ni	63Cu	65Cu	66Zn	75As	78Se
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	18:37:34	16555.0000	6.5396	13.0420	27.5010	28.0960	109.2600	3.4133	-0.9145
2	18:38:14	16503.0000	6.7330	13.2450	27.3340	28.4100	109.7100	3.4704	-0.6410
3	18:38:53	16687.0000	6.7291	13.2650	27.4160	28.8120	111.7500	3.6138	-1.0583
4	18:39:33	16123.0000	6.5470	12.6350	26.9870	27.2480	107.2200	3.2539	-1.6585
5	18:40:12	16755.0000	6.6792	13.1360	27.6140	27.5000	112.1900	3.4363	-0.4329
X		16525.0000	6.6456	13.0650	27.3700	28.0130	110.0300	3.4375	-0.9411
%RSD		1.4885	1.4414	1.9647	0.8704	2.2935	1.8298	3.7499	49.7710

Run	Time	82Se	83Kr	89Y	94Mo	95Mo	96Mo	97Mo	98Mo
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	18:37:34	0.4857	0.2133	92.78%	0.0000	0.0000	0.0000	0.0000	0.0000
2	18:38:14	0.4230	0.3811	93.06%	0.0000	0.0000	0.0000	0.0000	0.0000
3	18:38:53	0.7564	-0.8139	93.01%	0.0000	0.0000	0.0000	0.0000	0.0000
4	18:39:33	0.1451	-0.0154	103.22%	0.0000	0.0000	0.0000	0.0000	0.0000
5	18:40:12	0.4941	-0.6052	94.01%	0.0000	0.0000	0.0000	0.0000	0.0000
X		0.4609	-0.1680	95.22%	0.0000	0.0000	0.0000	0.0000	0.0000
%RSD		47.3120	309.0500	4.72	0.0000	0.0000	0.0000	0.0000	0.0000

Run	Time	103Rh	107Ag	108Mo O	109Ag	111Cd	115In	118Sn	121Sb
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	18:37:34	90.24%	0.0507	0.3087	0.0410	0.3062	0.0000	0.0000	0.0964
2	18:38:14	89.73%	0.0548	0.0228	0.0412	0.2883	0.0000	0.0000	0.1198
3	18:38:53	90.85%	0.0524	0.4827	0.0468	0.3893	0.0000	0.0000	0.1356
4	18:39:33	90.05%	0.0525	0.2168	0.0527	0.3259	0.0000	0.0000	0.1369
5	18:40:12	90.49%	0.0398	-0.2763	0.0533	0.3145	0.0000	0.0000	0.1190
X		90.27%	0.0501	0.1509	0.0470	0.3248	0.0000	0.0000	0.1216
%RSD		0.47	11.8030	192.6800	12.6660	11.8670	0.0000	0.0000	13.4750

Run	Time	135Ba	137Ba	159Tb	203Tl	205Tl	206Pb	207Pb	208Pb
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	18:37:34	117.8500	122.0000	85.71%	0.1677	0.1549	34.9450	32.0160	33.1040
2	18:38:14	124.8800	124.5100	85.46%	0.1874	0.1506	35.3880	32.5540	33.5860
3	18:38:53	121.2700	124.9500	85.23%	0.1639	0.1487	36.7030	33.1150	34.1930
4	18:39:33	122.5900	126.2700	86.30%	0.1723	0.1657	36.2340	32.4090	33.7970
5	18:40:12	120.2200	126.4400	87.00%	0.1591	0.1598	35.9340	32.8060	33.8520
X		121.3600	124.8400	85.94%	0.1701	0.1559	35.8410	32.5800	33.7060
%RSD		2.1617	1.4319	0.83	6.3634	4.4478	1.9302	1.2707	1.1895

Run	Time	209Bi	220Bkg
		ug/L	ug/L
1	18:37:34	85.41%	0.0955
2	18:38:14	85.46%	-0.5383
3	18:38:53	85.25%	0.0967
4	18:39:33	86.45%	-0.5383
5	18:40:12	86.12%	0.7189
X		85.74%	-0.0331
%RSD		0.61	1591.5000

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na	24Mg	25Mg	26Mg	27Al	39K
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	18:41:54	103.50%	0.6187	↹61.2210	↹5283.2000	5090.8000	5065.1000	↹16248.0000	↹2913.6000
2	18:42:34	101.94%	0.6524	63.7860	↹5351.1000	5149.9000	5194.6000	↹16292.0000	↹2929.1000
3	18:43:14	102.78%	0.5796	63.0570	↹5409.7000	5264.6000	5255.7000	↹16520.0000	↹2970.0000
4	18:43:57	103.26%	0.6128	63.2360	↹5342.5000	5128.6000	5123.8000	↹16340.0000	↹2947.6000
5	18:44:37	103.17%	0.6417	62.6530	↹5287.9000	5125.3000	5112.7000	↹16256.0000	↹2844.6000
X		102.93%	0.6210	↹62.7910	↹5334.8000	5151.8000	5150.4000	↹16331.0000	↹2921.0000
%RSD		0.59	4.5573	↹1.5403	↹0.9739	1.2906	1.4550	↹0.6840	↹1.6307

Run	Time	44Ca	45Sc	47Ti	51V	52Cr	54Fe	55Mn	56Fe
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	18:41:54	8793.0000	97.05%	24.9400	28.8910	19.6770	16879.0000	↹542.8400	↹17106.0000
2	18:42:34	8800.5000	99.00%	25.2290	29.2760	20.1010	16820.0000	↹544.6600	↹17073.0000
3	18:43:14	8913.8000	98.68%	25.9400	29.1470	19.6120	17052.0000	↹550.5400	↹17259.0000
4	18:43:57	8755.1000	98.81%	25.1860	29.7600	19.7210	16921.0000	↹543.1700	↹17101.0000
5	18:44:37	8667.5000	98.91%	25.1060	28.5300	19.4200	16721.0000	↹534.9800	↹16875.0000
X		8786.0000	98.49%	25.2800	29.1210	19.7060	16879.0000	↹543.2400	↹17083.0000
%RSD		1.0112	0.83	1.5231	1.5692	1.2635	0.7256	↹1.0235	↹0.8017

Run	Time	57Fe	59Co	60Ni	63Cu	65Cu	66Zn	75As	78Se
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	18:41:54	16192.0000	6.6777	12.0940	30.8360	31.1090	146.4000	6.2582	-1.1915
2	18:42:34	16251.0000	6.7949	11.9820	30.7350	31.2010	145.3600	6.3791	-0.9426
3	18:43:14	16354.0000	6.8287	12.5500	30.9010	31.2750	147.0400	6.0588	-0.5764
4	18:43:57	15999.0000	6.7227	12.2600	30.3930	31.2750	145.5200	6.1493	-0.7741
5	18:44:37	16009.0000	6.7395	12.3360	29.8760	30.8970	141.9500	5.8952	-0.8375
X		16161.0000	6.7527	12.2440	30.5480	31.1510	145.2500	6.1481	-0.8644
%RSD		0.9581	0.8843	1.7971	1.3873	0.5068	1.3545	3.0150	26.1870

Run	Time	82Se	83Kr	89Y	94Mo	95Mo	96Mo	97Mo	98Mo
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	18:41:54	0.6536	0.0824	90.79%	0.0000	0.0000	0.0000	0.0000	0.0000
2	18:42:34	0.6933	-0.6711	91.46%	0.0000	0.0000	0.0000	0.0000	0.0000
3	18:43:14	0.4281	0.5678	92.19%	0.0000	0.0000	0.0000	0.0000	0.0000
4	18:43:57	0.7859	-0.4779	91.46%	0.0000	0.0000	0.0000	0.0000	0.0000
5	18:44:37	0.1214	1.2488	92.43%	0.0000	0.0000	0.0000	0.0000	0.0000
X		0.5364	0.1500	91.66%	0.0000	0.0000	0.0000	0.0000	0.0000
%RSD		49.7220	522.3100	0.71	0.0000	0.0000	0.0000	0.0000	0.0000

Run	Time	103Rh	107Ag	108Mo O	109Ag	111Cd	115In	118Sn	121Sb
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	18:41:54	88.80%	0.1071	0.3204	0.1102	0.4739	0.0000	0.0000	0.1524
2	18:42:34	89.52%	0.1212	-0.6098	0.1185	0.5042	0.0000	0.0000	0.1552
3	18:43:14	89.03%	0.1231	0.0229	0.1375	0.4729	0.0000	0.0000	0.1653
4	18:43:57	89.85%	0.1260	0.0238	0.1132	0.4477	0.0000	0.0000	0.1655
5	18:44:37	89.51%	0.1208	-0.0084	0.1229	0.4615	0.0000	0.0000	0.1517
X		89.34%	0.1196	-0.0502	0.1205	0.4721	0.0000	0.0000	0.1580
%RSD		0.47	6.1182	677.2100	8.8732	4.4196	0.0000	0.0000	4.3586

Run	Time	135Ba	137Ba	159Tb	203Tl	205Tl	206Pb	207Pb	208Pb
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	18:41:54	95.6840	99.8130	85.36%	0.1683	0.1666	55.7640	50.7470	52.4020
2	18:42:34	99.6810	101.3400	85.49%	0.1731	0.1700	56.1270	51.4660	53.1750
3	18:43:14	98.4700	102.3600	85.81%	0.1784	0.1786	57.3770	51.7010	53.4260
4	18:43:57	97.7340	100.5200	86.44%	0.1667	0.1694	56.3540	51.6560	53.1540
5	18:44:37	97.7450	99.3490	85.71%	0.1646	0.1773	55.4700	50.7900	52.1590
X		97.8630	100.6700	85.76%	0.1702	0.1723	56.2180	51.2720	52.8630
%RSD		1.4852	1.1962	0.49	3.2606	3.0495	1.2999	0.9131	1.0392

Run	Time	209Bi	220Bkg
		ug/L	ug/L
1	18:41:54	84.66%	-0.5383
2	18:42:34	85.94%	0.0916
3	18:43:14	85.39%	-0.5383
4	18:43:57	85.84%	0.0924
5	18:44:37	85.39%	0.0957
X		85.44%	-0.1594
%RSD		0.59	217.0300

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na	24Mg	25Mg	26Mg	27Al	39K
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	18:46:20	100.56%	0.4755	39.2090	2145.7000	2064.6000	2094.7000	13871.0000	2247.3000
2	18:46:59	102.99%	0.5195	39.3750	2156.2000	2083.3000	2065.8000	13766.0000	2248.6000
3	18:47:39	103.27%	0.5182	41.3710	2173.1000	2079.0000	2094.0000	13871.0000	2285.6000
4	18:48:19	102.69%	0.5430	40.3290	2193.6000	2088.5000	2093.5000	13915.0000	2262.0000
5	18:48:58	103.95%	0.4891	38.7700	2151.3000	2079.9000	2057.9000	13756.0000	2238.4000
x		102.69%	0.5090	39.8110	2164.0000	2079.1000	2081.2000	13836.0000	2256.4000
%RSD		1.25	5.2634	2.6163	0.8991	0.4275	0.8590	0.5116	0.8154

Run	Time	44Ca	45Sc	47Ti	51V	52Cr	54Fe	55Mn	56Fe
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	18:46:20	3127.2000	96.10%	22.0150	25.0640	16.2110	14039.0000	423.9900	14435.0000
2	18:46:59	3129.4000	98.14%	22.0000	25.1660	16.1010	14104.0000	423.3200	14352.0000
3	18:47:39	3152.9000	98.01%	21.3390	25.4600	16.2840	14172.0000	432.0500	14451.0000
4	18:48:19	3149.2000	98.77%	21.9100	25.0920	16.2680	13934.0000	421.2100	14242.0000
5	18:48:58	3138.9000	99.24%	20.9310	24.8650	15.7880	13822.0000	424.2700	14199.0000
x		3139.5000	98.05%	21.6390	25.1300	16.1310	14014.0000	424.9700	14336.0000
%RSD		0.3664	1.22	2.2348	0.8587	1.2681	0.9914	0.9734	0.7865

Run	Time	57Fe	59Co	60Ni	63Cu	65Cu	66Zn	75As	78Se
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	18:46:20	13627.0000	6.3848	9.5153	26.6200	26.5920	98.2520	3.6236	-0.8903
2	18:46:59	13495.0000	6.5218	9.3228	26.5590	27.1620	98.6910	3.2882	-0.6101
3	18:47:39	13686.0000	6.5175	9.2859	26.8510	27.4170	99.1370	3.6118	-0.7410
4	18:48:19	13376.0000	6.5139	9.3200	26.8020	26.8010	98.6670	3.4397	-0.9328
5	18:48:58	13395.0000	6.4364	9.2676	26.3200	26.8990	97.1870	3.4472	-1.1056
x		13516.0000	6.4749	9.3423	26.6300	26.9740	98.3870	3.4821	-0.8559
%RSD		1.0180	0.9499	1.0644	0.7960	1.1908	0.7521	3.9970	22.0970

Run	Time	82Se	83Kr	89Y	94Mo	95Mo	96Mo	97Mo	98Mo
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	18:46:20	0.3887	0.2011	91.11%	0.0000	0.0000	0.0000	0.0000	0.0000
2	18:46:59	0.0616	0.6646	91.69%	0.0000	0.0000	0.0000	0.0000	0.0000
3	18:47:39	0.1865	0.7096	90.95%	0.0000	0.0000	0.0000	0.0000	0.0000
4	18:48:19	0.4610	-0.4276	91.74%	0.0000	0.0000	0.0000	0.0000	0.0000
5	18:48:58	-0.0006	0.4166	92.54%	0.0000	0.0000	0.0000	0.0000	0.0000
x		0.2194	0.3129	91.61%	0.0000	0.0000	0.0000	0.0000	0.0000
%RSD		91.5630	147.5600	0.68	0.0000	0.0000	0.0000	0.0000	0.0000

Run	Time	103Rh	107Ag	108Mo O	109Ag	111Cd	115In	118Sn	121Sb
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	18:46:20	89.71%	0.0639	0.2278	0.0534	0.3443	0.0000	0.0000	0.1417
2	18:46:59	90.57%	0.0711	0.2762	0.0568	0.2623	0.0000	0.0000	0.1085
3	18:47:39	90.76%	0.0680	-0.0892	0.0703	0.3206	0.0000	0.0000	0.1065
4	18:48:19	90.39%	0.0651	0.5159	0.0677	0.3175	0.0000	0.0000	0.1262
5	18:48:58	90.79%	0.0659	0.4049	0.0689	0.3653	0.0000	0.0000	0.1157
x		90.44%	0.0668	0.2671	0.0634	0.3220	0.0000	0.0000	0.1197
%RSD		0.49	4.2582	85.6640	12.2120	11.9900	0.0000	0.0000	12.1340

Run	Time	135Ba	137Ba	159Tb	203Tl	205Tl	206Pb	207Pb	208Pb
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	18:46:20	80.8680	81.9360	86.12%	0.1490	0.1358	40.8840	36.5920	38.3500
2	18:46:59	81.6070	82.8550	85.86%	0.1404	0.1395	40.5100	37.7020	38.5920
3	18:47:39	80.2910	82.7870	87.32%	0.1582	0.1492	41.1250	38.2450	39.1380
4	18:48:19	80.0470	83.5420	86.30%	0.1573	0.1571	41.2420	37.8850	38.7250
5	18:48:58	80.1200	82.4510	88.26%	0.1297	0.1330	40.8480	36.6640	38.1320
x		80.5860	82.7140	86.77%	0.1469	0.1429	40.9220	37.4180	38.5870
%RSD		0.8130	0.7117	1.15	8.1875	7.0033	0.6914	1.9976	0.9925

Run	Time	209Bi	220Bkg
		ug/L	ug/L
1	18:46:20	86.60%	0.7120
2	18:46:59	87.34%	-0.5383
3	18:47:39	86.85%	0.0851
4	18:48:19	86.89%	-0.5383
5	18:48:58	88.84%	0.0711
x		87.30%	-0.0417
%RSD		1.03	1251.5000

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na	24Mg	25Mg	26Mg	27Al	39K
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	18:50:40	101.52%	0.4846	27.3900	1136.9000	1086.2000	1110.7000	T10885.0000	T1613.7000
2	18:51:20	102.87%	0.4309	28.7650	1147.3000	1099.9000	1077.0000	T10838.0000	1674.9000
3	18:52:00	104.56%	0.4884	28.6880	1142.7000	1095.8000	1121.9000	T10928.0000	T1646.2000
4	18:52:40	102.87%	0.4392	28.8220	1132.7000	1114.2000	1133.2000	T10906.0000	T1640.3000
5	18:53:19	103.65%	0.4589	31.0350	1127.4000	1108.9000	1096.3000	T10660.0000	T1620.0000
X		103.09%	0.4604	28.9400	1137.4000	1101.0000	1107.8000	T10843.0000	T1639.0000
%RSD		1.09	5.6335	4.5378	0.6941	0.9969	1.9825	T0.9941	T1.4769

Run	Time	44Ca	45Sc	47Ti	51V	52Cr	54Fe	55Mn	56Fe
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	18:50:40	1771.3000	96.96%	18.5720	19.7640	15.4870	11082.0000	434.5700	T11340.0000
2	18:51:20	1753.8000	98.79%	18.4080	19.5320	15.4860	10988.0000	431.2500	T11185.0000
3	18:52:00	1761.5000	99.12%	18.8700	19.3040	15.2620	10960.0000	433.6300	T11333.0000
4	18:52:40	1777.6000	99.14%	18.4990	19.3030	15.4390	11000.0000	T428.0100	T11264.0000
5	18:53:19	1715.0000	99.42%	18.3330	19.1750	15.1590	10845.0000	T421.4000	T11236.0000
X		1755.9000	98.69%	18.5360	19.4160	15.3670	10975.0000	T429.7700	T11272.0000
%RSD		1.4000	1.01	1.1179	1.2018	0.9644	0.7816	T1.2385	T0.5825

Run	Time	57Fe	59Co	60Ni	63Cu	65Cu	66Zn	75As	78Se
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	18:50:40	10643.0000	5.7631	8.5652	27.9150	28.6130	201.6800	3.3983	-0.8893
2	18:51:20	10568.0000	5.8300	8.7447	27.7460	28.1330	202.2000	3.2645	-1.1392
3	18:52:00	10603.0000	5.8045	8.8098	28.2540	28.0860	199.7800	3.1540	-1.0125
4	18:52:40	10568.0000	5.8578	8.9317	27.9070	28.0200	204.0400	3.4486	-0.8832
5	18:53:19	10513.0000	5.6449	8.6794	27.6150	27.7230	200.6600	3.0910	-1.2533
X		10579.0000	5.7801	8.7462	27.8880	28.1150	201.6700	3.2713	-1.0355
%RSD		0.4549	1.4391	1.5727	0.8598	1.1407	0.8040	4.6829	15.5180

Run	Time	82Se	83Kr	89Y	94Mo	95Mo	96Mo	97Mo	98Mo
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	18:50:40	0.7442	0.9651	91.12%	0.0000	0.0000	0.0000	0.0000	0.0000
2	18:51:20	0.4153	0.0239	91.64%	0.0000	0.0000	0.0000	0.0000	0.0000
3	18:52:00	-0.0618	1.5912	92.02%	0.0000	0.0000	0.0000	0.0000	0.0000
4	18:52:40	0.6606	0.4029	91.67%	0.0000	0.0000	0.0000	0.0000	0.0000
5	18:53:19	0.2291	0.8225	92.07%	0.0000	0.0000	0.0000	0.0000	0.0000
X		0.3975	0.7611	91.70%	0.0000	0.0000	0.0000	0.0000	0.0000
%RSD		82.4010	77.9030	0.41	0.0000	0.0000	0.0000	0.0000	0.0000

Run	Time	103Rh	107Ag	108Mo O	109Ag	111Cd	115In	118Sn	121Sb
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	18:50:40	90.22%	0.0648	0.5731	0.0648	0.5462	0.0000	0.0000	0.1371
2	18:51:20	90.53%	0.0662	0.5824	0.0667	0.5922	0.0000	0.0000	0.1235
3	18:52:00	90.64%	0.0652	-0.1102	0.0661	0.5261	0.0000	0.0000	0.1276
4	18:52:40	90.97%	0.0781	0.4786	0.0663	0.5179	0.0000	0.0000	0.1176
5	18:53:19	91.56%	0.0670	-0.4789	0.0611	0.5963	0.0000	0.0000	0.1288
X		90.78%	0.0683	0.2090	0.0650	0.5557	0.0000	0.0000	0.1269
%RSD		0.56	8.1633	229.4500	3.5001	6.5995	0.0000	0.0000	5.6671

Run	Time	135Ba	137Ba	159Tb	203Tl	205Tl	206Pb	207Pb	208Pb
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	18:50:40	91.2910	93.2050	86.13%	0.1130	0.1078	75.9940	69.9140	71.3990
2	18:51:20	89.6890	94.2320	86.05%	0.1101	0.1084	75.2240	69.2850	70.9320
3	18:52:00	91.3550	92.2510	87.30%	0.1103	0.1326	76.1970	69.7300	71.8470
4	18:52:40	91.5780	91.9340	86.94%	0.1217	0.1134	75.4390	69.7520	71.4900
5	18:53:19	89.6880	92.7390	87.49%	0.1160	0.1146	75.0780	68.8620	70.8130
X		90.7200	92.8720	86.78%	0.1142	0.1153	75.5860	69.5090	71.2960
%RSD		1.0449	0.9697	0.76	4.2018	8.7360	0.6449	0.6188	0.5941

Run	Time	209Bi	220Bkg
		ug/L	ug/L
1	18:50:40	86.39%	-0.5383
2	18:51:20	86.59%	-0.5383
3	18:52:00	87.02%	-0.5383
4	18:52:40	87.51%	1.3176
5	18:53:19	88.47%	0.0736
X		87.20%	-0.0448
%RSD		0.96	1801.5000

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na	24Mg	25Mg	26Mg	27Al	39K
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	18:55:01	102.41%	0.4319	32.6050	1105.8000	1091.7000	1086.6000	T11965.0000	T1940.3000
2	18:55:41	103.17%	0.4517	31.8280	T1137.2000	1103.5000	1101.4000	T11958.0000	T1955.0000
3	18:56:20	102.58%	0.4699	32.2730	1126.8000	1116.6000	1101.3000	T12115.0000	T1950.8000
4	18:57:00	103.96%	0.4626	31.9200	1149.8000	1102.4000	1124.8000	T12129.0000	T1982.8000
5	18:57:40	104.14%	0.4807	33.9640	1120.3000	1104.4000	1097.7000	T11877.0000	T1936.2000
X		103.25%	0.4594	32.5180	T1128.0000	1103.7000	1102.4000	T12009.0000	T1953.0000
%RSD		0.76	4.0608	2.6601	T1.4806	0.8036	1.2636	T0.9083	T0.9379

Run	Time	44Ca	45Sc	47Ti	51V	52Cr	54Fe	55Mn	56Fe
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	18:55:01	1414.5000	98.43%	21.6650	21.8390	14.7140	12733.0000	T558.8200	T13102.0000
2	18:55:41	1439.2000	98.99%	21.6090	22.4300	14.9320	12886.0000	T563.4300	T13272.0000
3	18:56:20	1447.4000	99.80%	22.3150	22.1610	14.9140	12913.0000	T561.3400	T13184.0000
4	18:57:00	1474.0000	99.82%	21.7200	22.6690	15.0540	T13172.0000	T564.6700	T13199.0000
5	18:57:40	1453.8000	99.59%	21.3700	21.7380	14.8690	12900.0000	T562.9200	T13234.0000
X		1445.8000	99.33%	21.7360	22.1670	14.8960	T12921.0000	T562.2400	T13198.0000
%RSD		1.5024	0.61	1.6108	1.7653	0.8266	T1.2254	T0.4004	T0.4826

Run	Time	57Fe	59Co	60Ni	63Cu	65Cu	66Zn	75As	78Se
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	18:55:01	12392.0000	7.6320	8.1577	23.3550	23.5390	175.5300	3.4240	-1.2136
2	18:55:41	12348.0000	7.6534	8.1492	23.7270	24.2400	176.1700	3.5147	-0.9713
3	18:56:20	12385.0000	7.7551	8.4363	23.7490	23.7810	176.6300	3.3419	-1.1281
4	18:57:00	12485.0000	7.7292	8.1613	23.4680	24.1680	174.7800	3.5468	-0.8420
5	18:57:40	12394.0000	7.6281	8.3778	23.0520	24.4960	176.9900	3.7706	-0.9183
X		12401.0000	7.6796	8.2565	23.4700	24.0450	176.0200	3.5196	-1.0147
%RSD		0.4067	0.7635	1.6845	1.2278	1.5860	0.5016	4.5911	15.0630

Run	Time	82Se	83Kr	89Y	94Mo	95Mo	96Mo	97Mo	98Mo
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	18:55:01	0.2922	0.4065	91.70%	0.0000	0.0000	0.0000	0.0000	0.0000
2	18:55:41	0.0473	0.3976	90.65%	0.0000	0.0000	0.0000	0.0000	0.0000
3	18:56:20	-0.0313	0.8502	92.61%	0.0000	0.0000	0.0000	0.0000	0.0000
4	18:57:00	0.5499	-0.1991	92.12%	0.0000	0.0000	0.0000	0.0000	0.0000
5	18:57:40	0.3834	0.2668	91.76%	0.0000	0.0000	0.0000	0.0000	0.0000
X		0.2483	0.3444	91.77%	0.0000	0.0000	0.0000	0.0000	0.0000
%RSD		96.5180	109.0300	0.79	0.0000	0.0000	0.0000	0.0000	0.0000

Run	Time	103Rh	107Ag	108Mo O	109Ag	111Cd	115In	118Sn	121Sb
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	18:55:01	90.23%	0.0371	0.4196	0.0397	0.3307	0.0000	0.0000	0.1225
2	18:55:41	90.69%	0.0504	0.4894	0.0368	0.2568	0.0000	0.0000	0.1086
3	18:56:20	90.77%	0.0470	0.4374	0.0483	0.3861	0.0000	0.0000	0.1415
4	18:57:00	90.98%	0.0559	-0.2401	0.0491	0.3796	0.0000	0.0000	0.1121
5	18:57:40	90.70%	0.0476	0.2745	0.0412	0.3724	0.0000	0.0000	0.1096
X		90.68%	0.0476	0.2762	0.0430	0.3451	0.0000	0.0000	0.1189
%RSD		0.30	14.3900	108.4100	12.6190	15.6140	0.0000	0.0000	11.6060

Run	Time	135Ba	137Ba	159Tb	203Tl	205Tl	206Pb	207Pb	208Pb
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	18:55:01	86.0000	88.6020	85.74%	0.1320	0.1255	34.8980	31.7660	32.9850
2	18:55:41	84.5530	88.5520	86.88%	0.1171	0.1190	35.1370	32.2820	33.2020
3	18:56:20	86.4200	88.3450	87.99%	0.1521	0.1351	34.6480	32.1600	32.9880
4	18:57:00	86.4400	89.2530	87.64%	0.1321	0.1234	35.0260	32.3780	33.1360
5	18:57:40	86.8990	88.7270	86.13%	0.1364	0.1244	34.9650	31.3790	32.8110
X		86.0620	88.6960	86.88%	0.1339	0.1255	34.9350	31.9930	33.0240
%RSD		1.0479	0.3840	1.10	9.3411	4.6968	0.5228	1.2967	0.4594

Run	Time	209Bi	220Bkg
		ug/L	ug/L
1	18:55:01	86.75%	0.0857
2	18:55:41	87.45%	0.0808
3	18:56:20	87.24%	-0.5383
4	18:57:00	86.77%	0.0856
5	18:57:40	87.49%	-0.5383
X		87.14%	-0.1649
%RSD		0.41	206.7300

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na	24Mg	25Mg	26Mg	27Al	39K
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	18:59:24	101.13%	-0.0046	-3.7492	0.4739	0.3840	0.5864	4.7477	-17.3430
2	19:00:04	103.49%	-0.0064	-3.8381	0.4331	0.5359	0.2368	3.6085	-16.7540
3	19:00:44	104.33%	-0.0014	-3.7675	0.3463	0.2089	0.1243	2.7779	-16.0030
4	19:01:24	103.04%	-0.0021	-3.8416	0.2514	0.0871	0.0870	2.3837	-16.9550
5	19:02:03	105.87%	-0.0113	-3.8158	0.1344	-0.0403	0.0788	1.8113	-17.3510
X		103.57%	-0.0052	-3.8024	0.3278	0.2351	0.2227	3.0658	-16.8810
%RSD		1.68	76.6330	1.1039	42.0580	97.7150	95.6220	37.3520	3.2810

Run	Time	44Ca	45Sc	47Ti	51V	52Cr	54Fe	55Mn	56Fe
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	18:59:24	-5.3620	96.85%	0.0040	-0.0024	-0.0413	7.7002	0.1628	-2.6974
2	19:00:04	-6.6096	97.89%	0.0196	0.0154	-0.0724	2.5883	0.1061	-3.8647
3	19:00:44	-6.6661	97.53%	0.0154	-0.0252	-0.0604	4.3424	0.0707	-4.6019
4	19:01:24	-5.8752	98.69%	-0.0006	0.0047	-0.0318	2.2919	0.0551	-4.6546
5	19:02:03	-7.2129	100.44%	-0.0008	0.0016	-0.0538	2.7424	0.0329	-5.2820
X		-6.3451	98.28%	0.0075	-0.0012	-0.0519	3.9330	0.0855	-4.2201
%RSD		11.4550	1.40	125.8400	1281.0000	30.6270	57.2480	59.3720	23.4200

Run	Time	57Fe	59Co	60Ni	63Cu	65Cu	66Zn	75As	78Se
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	18:59:24	2.2855	-0.0001	0.0214	-0.0991	-0.0260	0.3045	-0.0129	-1.3794
2	19:00:04	3.5057	0.0009	0.0183	-0.1253	-0.0297	0.2260	0.0562	-1.1227
3	19:00:44	0.2884	0.0009	0.0184	-0.0964	0.0146	0.1678	-0.0328	-0.9391
4	19:01:24	-0.1519	-0.0030	0.0427	-0.1172	-0.0136	0.2316	0.0066	-1.3001
5	19:02:03	0.8921	-0.0003	0.0272	-0.0886	-0.0383	0.1866	0.0072	-1.4569
X		1.3639	-0.0003	0.0256	-0.1053	-0.0186	0.2233	0.0049	-1.2397
%RSD		110.6700	506.5300	39.8490	14.5390	110.5700	23.5830	680.3600	16.8420

Run	Time	82Se	83Kr	89Y	94Mo	95Mo	96Mo	97Mo	98Mo
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	18:59:24	-0.2680	0.0322	88.14%	0.0000	0.0000	0.0000	0.0000	0.0000
2	19:00:04	0.0494	-0.6888	89.23%	0.0000	0.0000	0.0000	0.0000	0.0000
3	19:00:44	-0.1710	0.3394	89.60%	0.0000	0.0000	0.0000	0.0000	0.0000
4	19:01:24	0.0788	-1.0161	90.61%	0.0000	0.0000	0.0000	0.0000	0.0000
5	19:02:03	-0.1237	0.6912	89.87%	0.0000	0.0000	0.0000	0.0000	0.0000
X		-0.0869	-0.1284	89.49%	0.0000	0.0000	0.0000	0.0000	0.0000
%RSD		169.9700	553.1200	1.01	0.0000	0.0000	0.0000	0.0000	0.0000

Run	Time	103Rh	107Ag	108Mo O	109Ag	111Cd	115In	118Sn	121Sb
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	18:59:24	91.47%	-0.0010	0.9543	0.0019	-0.0190	0.0000	0.0000	-0.0005
2	19:00:04	92.42%	0.0013	0.6213	0.0001	-0.0126	0.0000	0.0000	0.0011
3	19:00:44	92.60%	0.0009	0.4251	0.0005	-0.0098	0.0000	0.0000	-0.0005
4	19:01:24	93.47%	0.0012	0.5728	-0.0016	-0.0135	0.0000	0.0000	0.0084
5	19:02:03	93.18%	-0.0012	1.0430	-0.0033	-0.0233	0.0000	0.0000	0.0115
X		92.63%	0.0002	0.7233	-0.0005	-0.0157	0.0000	0.0000	0.0040
%RSD		0.83	549.1800	36.4220	431.8500	34.6260	0.0000	0.0000	138.6100

Run	Time	135Ba	137Ba	159Tb	203Tl	205Tl	206Pb	207Pb	208Pb
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	18:59:24	0.0265	0.0408	87.10%	0.0005	-0.0069	0.0076	-0.0070	0.0015
2	19:00:04	0.0191	0.0191	86.50%	0.0007	0.0006	-0.0025	0.0018	-0.0020
3	19:00:44	0.0189	0.0233	87.07%	0.0122	0.0080	-0.0065	-0.0013	-0.0038
4	19:01:24	0.0114	0.0145	87.83%	0.0160	0.0178	-0.0181	-0.0085	-0.0114
5	19:02:03	-0.0032	0.0059	87.48%	0.0091	0.0036	-0.0181	-0.0127	-0.0079
X		0.0146	0.0207	87.20%	0.0077	0.0046	-0.0075	-0.0055	-0.0047
%RSD		77.3220	62.4880	0.57	90.3850	198.0500	145.9100	104.5500	106.1400

Run	Time	209Bi	220Bkg
		ug/L	ug/L
1	18:59:24	89.38%	-0.5383
2	19:00:04	88.77%	-0.5383
3	19:00:44	89.38%	-0.5383
4	19:01:24	89.83%	0.0643
5	19:02:03	89.45%	-0.5383
X		89.36%	-0.4178
%RSD		0.43	64.5100

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na	24Mg	25Mg	26Mg	27Al	39K
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	19:03:45	96.88%	↹2543.4000	↹48662.0000	↹48262.0000	↹47597.0000	↹46531.0000	↹47732.0000	↹41860.0000
2	19:04:25	96.44%	↹2590.9000	↹48793.0000	↹48692.0000	↹47602.0000	↹47084.0000	↹48228.0000	↹41958.0000
3	19:05:05	96.90%	↹2623.3000	↹49683.0000	↹49134.0000	↹48022.0000	↹47273.0000	↹48321.0000	↹41934.0000
4	19:05:44	98.81%	↹2596.7000	↹49369.0000	↹48498.0000	↹47634.0000	↹46643.0000	↹47718.0000	↹41390.0000
5	19:06:24	98.01%	↹2548.3000	↹48555.0000	↹48331.0000	↹47203.0000	↹46549.0000	↹47343.0000	↹40900.0000
x		97.41%	↹2580.5000	↹49012.0000	↹48583.0000	↹47612.0000	↹46816.0000	↹47868.0000	↹41608.0000
%RSD		1.00	↹1.3164	↹0.9980	↹0.7195	↹0.6086	↹0.7270	↹0.8426	↹1.1019

Run	Time	44Ca	45Sc	47Ti	51V	52Cr	54Fe	55Mn	56Fe
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	19:03:45	47421.0000	91.85%	0.0310	↹2609.1000	↹2454.5000	↹49837.0000	↹2396.6000	↹48140.0000
2	19:04:25	47356.0000	93.37%	0.0258	↹2623.9000	↹2469.0000	↹50012.0000	↹2400.1000	↹48115.0000
3	19:05:05	47734.0000	93.04%	0.0229	↹2615.5000	↹2492.8000	↹50115.0000	↹2418.2000	↹48597.0000
4	19:05:44	46828.0000	94.42%	0.0254	↹2619.0000	↹2437.5000	↹48970.0000	↹2373.2000	↹47538.0000
5	19:06:24	46285.0000	94.38%	0.0269	↹2594.2000	↹2434.1000	↹48628.0000	↹2324.2000	↹46891.0000
x		47125.0000	93.41%	0.0264	↹2612.3000	↹2457.6000	↹49513.0000	↹2382.5000	↹47856.0000
%RSD		1.2123	1.14	11.2500	↹0.4396	↹0.9826	↹1.3533	↹1.5233	↹1.3740

Run	Time	57Fe	59Co	60Ni	63Cu	65Cu	66Zn	75As	78Se
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	19:03:45	47104.0000	↹2487.4000	↹2438.6000	↹2378.5000	↹2398.9000	2291.6000	2460.0000	250.4300
2	19:04:25	47077.0000	↹2476.2000	↹2444.2000	↹2422.9000	↹2417.5000	2288.8000	2485.4000	249.0600
3	19:05:05	47174.0000	↹2500.8000	↹2458.5000	↹2427.6000	↹2444.6000	2311.9000	2487.0000	247.6800
4	19:05:44	46173.0000	↹2440.1000	2447.7000	↹2387.4000	↹2405.0000	2259.5000	2456.5000	249.2900
5	19:06:24	45915.0000	↹2439.8000	2465.3000	↹2387.5000	↹2394.7000	2240.9000	2453.2000	248.5300
x		46689.0000	↹2468.8000	↹2450.9000	↹2400.8000	↹2412.1000	2278.6000	2468.4000	249.0000
%RSD		1.2778	↹1.1255	↹0.4433	↹0.9454	↹0.8322	1.2352	0.6656	0.4066

Run	Time	82Se	83Kr	89Y	94Mo	95Mo	96Mo	97Mo	98Mo
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	19:03:45	251.8200	2.9017	79.83%	0.0000	0.0000	0.0000	0.0000	0.0000
2	19:04:25	249.5700	2.2861	80.05%	0.0000	0.0000	0.0000	0.0000	0.0000
3	19:05:05	248.8900	1.1861	80.29%	0.0000	0.0000	0.0000	0.0000	0.0000
4	19:05:44	247.3800	2.0513	81.01%	0.0000	0.0000	0.0000	0.0000	0.0000
5	19:06:24	244.9500	0.2683	80.94%	0.0000	0.0000	0.0000	0.0000	0.0000
x		248.5200	1.7387	80.42%	0.0000	0.0000	0.0000	0.0000	0.0000
%RSD		1.0289	59.0570	0.66	0.0000	0.0000	0.0000	0.0000	0.0000

Run	Time	103Rh	107Ag	108Mo O	109Ag	111Cd	115In	118Sn	121Sb
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	19:03:45	79.67%	251.7700	-9.9001	253.0200	2495.0000	0.0000	0.0000	↹2542.0000
2	19:04:25	80.07%	254.9500	-6.1214	255.8500	2477.3000	0.0000	0.0000	↹2554.3000
3	19:05:05	80.03%	257.6300	-5.1949	257.3500	2487.8000	0.0000	0.0000	↹2557.4000
4	19:05:44	80.13%	258.1100	-20.1960	260.1000	2482.1000	0.0000	0.0000	↹2531.4000
5	19:06:24	80.28%	249.7600	-7.3409	250.6700	2439.4000	0.0000	0.0000	↹2502.8000
x		80.04%	254.4400	-9.7507	255.4000	2476.3000	0.0000	0.0000	↹2537.6000
%RSD		0.28	1.4301	62.5650	1.4394	0.8744	0.0000	0.0000	↹0.8680

Run	Time	135Ba	137Ba	159Tb	203Tl	205Tl	206Pb	207Pb	208Pb
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	19:03:45	2443.6000	2547.4000	77.80%	↹2645.3000	↹2647.2000	↹2687.1000	↹2542.7000	↹2619.1000
2	19:04:25	2445.9000	2531.6000	77.71%	↹2634.0000	↹2650.8000	↹2667.9000	↹2554.0000	↹2618.3000
3	19:05:05	2459.9000	2549.3000	77.64%	↹2642.5000	↹2646.8000	↹2692.2000	↹2554.9000	↹2629.6000
4	19:05:44	2452.3000	2548.0000	77.71%	↹2632.6000	↹2647.8000	↹2651.1000	↹2537.8000	↹2601.7000
5	19:06:24	2396.7000	2482.7000	78.08%	↹2598.5000	↹2617.8000	↹2641.1000	↹2494.7000	↹2571.9000
x		2439.7000	2531.8000	77.79%	↹2630.6000	↹2642.1000	↹2667.9000	↹2536.8000	↹2608.1000
%RSD		1.0177	1.1221	0.22	↹0.7123	↹0.5166	↹0.8302	↹0.9725	↹0.8654

Run	Time	209Bi	220Bkg
		ug/L	ug/L
1	19:03:45	73.93%	0.1939
2	19:04:25	73.79%	1.6628
3	19:05:05	73.67%	1.6663
4	19:05:44	73.67%	1.6662
5	19:06:24	73.33%	1.6765
x		73.68%	1.3731
%RSD		0.30	48.0080

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na	24Mg	25Mg	26Mg	27Al	39K
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	19:08:08	106.75%	0.5462	9.3857	7.5942	7.7568	6.3369	7.2239	-4.1174
2	19:08:48	107.84%	0.4073	6.6734	5.5178	5.7143	5.6675	5.4213	-7.1143
3	19:09:28	109.43%	0.2725	4.4636	3.5662	3.2872	3.2662	3.5487	-9.2218
4	19:10:07	110.00%	0.1734	3.3314	2.5825	2.4372	2.3782	2.4083	-10.7390
5	19:10:47	111.58%	0.1498	1.8155	1.7216	1.4077	1.9604	1.6843	-11.9920
X		109.12%	0.3098	5.1339	4.1965	4.1206	3.9218	4.0573	-8.6370
%RSD		1.73	53.7580	57.7470	56.4130	62.6410	50.2570	55.7930	36.0430

Run	Time	44Ca	45Sc	47Ti	51V	52Cr	54Fe	55Mn	56Fe
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	19:08:08	-0.4256	98.57%	0.0080	0.3591	0.3168	9.4474	0.3612	-0.6970
2	19:08:48	-1.7769	100.31%	-0.0050	0.3060	0.2260	6.6597	0.2516	-2.1169
3	19:09:28	-3.9021	100.09%	-0.0036	0.1959	0.1198	5.7248	0.1595	-4.1095
4	19:10:07	-6.4391	101.55%	-0.0024	0.0631	0.0405	4.1353	0.1125	-4.7586
5	19:10:47	-5.7512	102.58%	-0.0025	0.0628	0.0658	1.9617	0.1061	-6.1888
X		-3.6590	100.62%	-0.0011	0.1974	0.1538	5.5858	0.1982	-3.5742
%RSD		69.8960	1.51	475.2500	68.9500	75.2220	50.0980	54.5530	60.8610

Run	Time	57Fe	59Co	60Ni	63Cu	65Cu	66Zn	75As	78Se
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	19:08:08	8.3498	0.3581	0.4072	0.6072	0.5288	0.4379	0.6376	-0.4873
2	19:08:48	2.9607	0.2894	0.3045	0.3888	0.3115	0.3169	0.4997	-0.4660
3	19:09:28	5.0209	0.1632	0.1784	0.2773	0.2460	0.2381	0.4180	-0.4667
4	19:10:07	3.0151	0.1060	0.1096	0.1723	0.1563	0.1186	0.1902	-0.8839
5	19:10:47	2.8219	0.0819	0.1015	0.1600	0.1313	0.1876	0.2707	-0.0029
X		4.4337	0.1997	0.2202	0.3211	0.2748	0.2598	0.4032	-0.4614
%RSD		53.4470	59.8380	60.1340	57.5180	57.9180	47.3720	44.2580	67.6260

Run	Time	82Se	83Kr	89Y	94Mo	95Mo	96Mo	97Mo	98Mo
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	19:08:08	0.0998	-0.3971	87.25%	0.0000	0.0000	0.0000	0.0000	0.0000
2	19:08:48	0.0488	-0.7120	89.41%	0.0000	0.0000	0.0000	0.0000	0.0000
3	19:09:28	0.1892	-0.2654	89.61%	0.0000	0.0000	0.0000	0.0000	0.0000
4	19:10:07	-0.1231	0.2379	90.87%	0.0000	0.0000	0.0000	0.0000	0.0000
5	19:10:47	0.1857	-0.5930	90.70%	0.0000	0.0000	0.0000	0.0000	0.0000
X		0.0801	-0.3459	89.57%	0.0000	0.0000	0.0000	0.0000	0.0000
%RSD		160.0300	106.7100	1.62	0.0000	0.0000	0.0000	0.0000	0.0000

Run	Time	103Rh	107Ag	108Mo O	109Ag	111Cd	115In	118Sn	121Sb
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	19:08:08	90.44%	0.1366	0.4016	0.1383	0.3650	0.0000	0.0000	1.5267
2	19:08:48	92.99%	0.0978	0.6280	0.1110	0.2652	0.0000	0.0000	1.1985
3	19:09:28	92.50%	0.0882	0.0697	0.0828	0.1749	0.0000	0.0000	0.8786
4	19:10:07	93.08%	0.0723	0.2093	0.0821	0.1146	0.0000	0.0000	0.6202
5	19:10:47	93.87%	0.0294	0.5194	0.0342	0.0428	0.0000	0.0000	0.5906
X		92.57%	0.0849	0.3656	0.0897	0.1925	0.0000	0.0000	0.9629
%RSD		1.40	45.9690	62.0400	43.1800	65.6340	0.0000	0.0000	41.4290

Run	Time	135Ba	137Ba	159Tb	203Tl	205Tl	206Pb	207Pb	208Pb
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1	19:08:08	0.4737	0.3356	84.47%	0.6829	0.6369	0.4632	0.4503	0.4467
2	19:08:48	0.3311	0.2683	85.52%	0.4250	0.4216	0.3183	0.3049	0.3084
3	19:09:28	0.1907	0.1596	85.35%	0.3044	0.2970	0.2004	0.2165	0.2045
4	19:10:07	0.1443	0.1491	86.52%	0.2328	0.2326	0.1569	0.1423	0.1411
5	19:10:47	0.1432	0.0964	87.04%	0.1871	0.1653	0.1364	0.1026	0.1119
X		0.2566	0.2018	85.78%	0.3665	0.3507	0.2550	0.2433	0.2425
%RSD		55.9650	48.3010	1.18	54.1320	52.9950	53.3530	57.1550	56.3990

Run	Time	209Bi	220Bkg
		ug/L	ug/L
1	19:08:08	86.17%	-0.5383
2	19:08:48	87.09%	-0.5383
3	19:09:28	87.35%	0.0815
4	19:10:07	88.01%	0.6920
5	19:10:47	88.48%	-0.5383
X		87.42%	-0.1683
%RSD		1.01	327.2300

Mass Uncorrected ICPS

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User Pre-dilution: 1.00

Run	Time	6Li	9Be	23Na	24Mg	25Mg	26Mg	27Al	39K
1	14:50:55	258507.4900	31.6667	24012.0450	150.0014	25.0000	35.0001	1815.1977	40586.0940
2	14:51:35	256986.5200	30.0001	23826.5140	175.0018	45.0001	35.0001	1712.6760	41319.6860
3	14:52:14	259580.9300	26.6667	23605.8870	150.0014	30.0001	50.0001	1657.6649	42040.7790
4	14:52:54	263787.4800	33.3334	23919.2790	150.0014	50.0001	30.0001	1517.6382	41734.2440
5	14:53:34	265198.7300	32.5001	23959.3940	140.0012	20.0000	40.0001	1597.6531	41932.7360
x		260812.2300	30.8334	23864.6240	153.0014	34.0001	38.0001	1660.1660	41522.7080
%RSD		1.350	8.547	0.669	8.522	38.065	19.955	6.803	1.425

Run	Time	44Ca	45Sc	47Ti	51V	52Cr	54Fe	55Mn	56Fe
1	14:50:55	370.0082	470782.8800	20.0000	2530.3841	1235.0915	2352.8321	145.0013	109167.9000
2	14:51:35	442.5118	475419.0300	30.0001	2010.2424	1282.5987	2460.3631	140.0012	108919.6900
3	14:52:14	457.5126	474771.1200	27.5000	1565.1470	1065.0681	2172.7832	145.0013	107655.9200
4	14:52:54	362.5079	481723.5800	20.0000	1432.6231	1110.0739	2320.3230	137.5011	109428.7900
5	14:53:34	372.5083	479914.8100	22.5000	1687.6709	1150.0794	2265.3079	195.0023	108724.6700
x		401.0098	476522.2800	24.0000	1845.2135	1168.5823	2314.3219	152.5014	108779.4000
%RSD		11.271	0.913	18.923	23.780	7.642	4.597	15.724	0.626

Run	Time	57Fe	59Co	60Ni	63Cu	65Cu	66Zn	75As	78Se
1	14:50:55	667.5267	25.0000	45.0001	595.0212	172.5018	195.0023	78.3337	843.3760
2	14:51:35	790.0375	17.5000	42.5001	655.0257	165.0016	202.5025	71.6670	833.3750
3	14:52:14	722.5313	15.0000	25.0000	580.0202	190.0022	127.5010	47.5001	832.5416
4	14:52:54	655.0257	30.0001	12.5000	622.5233	185.0021	130.0010	40.0001	895.8815
5	14:53:34	667.5267	22.5000	42.5001	605.0220	240.0035	142.5012	55.8335	893.3812
x		700.5296	22.0000	33.5001	611.5225	190.5022	159.5016	58.6669	859.7111
%RSD		8.058	27.130	42.413	4.711	15.428	22.806	27.445	3.742

Run	Time	82Se	83Kr	89Y	94Mo	95Mo	96Mo	97Mo	98Mo
1	14:50:55	78.3337	72.5003	804142.9300	37.5001	5.0000	15.0000	10.0000	7.5000
2	14:51:35	70.8336	78.3337	803123.8300	62.5002	7.5000	20.0000	2.5000	10.0000
3	14:52:14	83.3337	75.8337	806211.7100	30.0001	7.5000	10.0000	5.0000	10.0000
4	14:52:54	94.1672	85.8338	807096.5200	37.5001	2.5000	10.0000	2.5000	5.0000
5	14:53:34	85.8338	77.5004	811169.9900	45.0001	2.5000	15.0000	7.5000	10.0000
x		82.5004	78.0004	806349.0000	42.5001	5.0000	14.0000	5.5000	8.5000
%RSD		10.522	6.303	0.388	29.116	50.000	29.881	59.265	26.307

Run	Time	103Rh	107Ag	108Mo O	109Ag	111Cd	115In	118Sn	121Sb
1	14:50:55	949357.4900	21.2500	5.0000	28.7500	3.7500	874519.3400	35.0001	20.0000
2	14:51:35	940809.7200	20.0000	0.0000	13.7500	2.5000	869660.6700	37.5001	17.5000
3	14:52:14	953030.9400	26.2500	7.5000	25.0000	2.5000	872010.7600	20.0000	25.0000
4	14:52:54	955872.9800	50.0001	2.5000	26.2500	1.2500	879294.8000	17.5000	17.5000
5	14:53:34	952592.2800	37.5001	7.5000	20.0000	3.7500	886282.6400	40.0001	25.0000
x		950332.6800	31.0001	4.5000	22.7500	2.7500	876353.6400	30.0001	21.0000
%RSD		0.611	40.863	72.436	26.178	38.030	0.753	34.861	18.054

Run	Time	135Ba	137Ba	159Tb	203Tl	205Tl	206Pb	207Pb	208Pb
1	14:50:55	2.5000	2.5000	1378231.4000	60.0002	140.0012	40.0001	65.0003	117.5008
2	14:51:35	2.5000	12.5000	1368697.5000	75.0003	175.0018	70.0003	47.5001	142.5012
3	14:52:14	0.0000	2.5000	1375521.1000	97.5006	211.2527	55.0002	67.5003	172.5018
4	14:52:54	5.0000	0.0000	1389204.3000	86.2504	240.0035	80.0004	62.5002	155.0014
5	14:53:34	10.0000	5.0000	1395021.6000	67.5003	186.2521	92.5005	92.5005	200.0024
x		4.0000	4.5000	1381335.2000	77.2504	190.5023	67.5003	67.0003	157.5015
%RSD		94.786	106.863	0.770	19.296	19.798	30.542	24.239	19.730

Run	Time	209Bi	220Bkg
1	14:50:55	967048.8300	0.0000
2	14:51:35	966718.6100	0.0000
3	14:52:14	966470.9500	2.5000
4	14:52:54	975131.8900	2.5000
5	14:53:34	980748.4800	7.5000
x		971223.7500	2.5000
%RSD		0.664	122.475

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User Pre-dilution: 1.00

Run	Time	6Li	9Be	23Na	24Mg	25Mg	26Mg	27Al	39K
1	14:55:14	263784.0400	782.5367	826535.4300	470878.0300	58595.2830	66484.1550	56375.0460	445640.4100
2	14:55:54	265809.4000	817.5401	856056.8900	484093.9400	60398.0850	70270.0290	57560.6090	462310.2300
3	14:56:34	268444.3700	847.5431	T892230.3500	492352.3100	62856.1630	70421.2980	58159.7480	470241.0300
4	14:57:13	269335.7900	828.3745	T888885.3000	484252.7800	60186.5630	69574.2270	57069.7510	465387.1000
5	14:57:53	269638.6800	824.2074	833282.8500	473066.9300	59395.9210	67310.7510	55745.8340	439699.4700
x		267402.4600	820.0404	T859398.1600	480928.8000	60286.4030	68812.0920	56982.1980	456655.6500
%RSD		0.943	2.896	T3.549	1.843	2.659	2.617	1.671	2.900

Run	Time	44Ca	45Sc	47Ti	51V	52Cr	54Fe	55Mn	56Fe
1	14:55:14	15151.2610	474813.4300	20.0000	18949.0190	7748.6008	20099.2090	4843.9074	418440.7600
2	14:55:54	15689.7560	483567.1300	35.0001	18688.4320	8043.8804	20297.1880	4728.8413	429731.6500
3	14:56:34	16348.5210	488316.1600	27.5000	18898.9060	7656.0153	20963.8360	5034.0200	434525.9100
4	14:57:13	16213.2570	486972.0800	30.0001	18224.9070	7731.0845	20480.1350	4698.8244	429021.4200
5	14:57:53	15401.7200	490796.9700	30.0001	18540.6020	7806.1545	20557.8260	4741.3484	422450.6700
x		15760.9030	484893.1500	28.5000	18660.3730	7797.1471	20479.6390	4809.3883	426834.0800
%RSD		3.259	1.281	19.218	1.574	1.898	1.580	2.847	1.491

Run	Time	57Fe	59Co	60Ni	63Cu	65Cu	66Zn	75As	78Se
1	14:55:14	8509.3423	4433.6791	1045.0655	5259.1590	2492.8728	1637.6609	548.3514	1544.3097
2	14:55:54	8584.4193	4651.2977	1132.5770	5711.9569	2602.9064	1685.1704	529.1835	1582.6503
3	14:56:34	8376.7080	4578.7576	1222.5897	5596.8789	2730.4472	1747.6832	565.8525	1582.6503
4	14:57:13	8724.5647	4788.8756	1047.5658	5599.3806	2777.9629	1822.6993	541.6843	1500.1350
5	14:57:53	8659.4969	4473.7005	1145.0787	5389.2421	2542.8879	1762.6864	526.6833	1528.4735
x		8570.9062	4585.2621	1118.5753	5511.3235	2629.4155	1731.1800	542.3510	1547.6438
%RSD		1.578	3.109	6.655	3.319	4.623	4.136	2.926	2.304

Run	Time	82Se	83Kr	89Y	94Mo	95Mo	96Mo	97Mo	98Mo
1	14:55:14	377.5086	84.1671	803079.8800	47.5001	12.5000	17.5000	2.5000	2.5000
2	14:55:54	347.5073	75.0003	808014.4000	52.5002	5.0000	15.0000	2.5000	7.5000
3	14:56:34	402.5097	85.0004	810974.8000	42.5001	2.5000	12.5000	10.0000	7.5000
4	14:57:13	390.0091	89.1671	815707.4700	55.0002	0.0000	7.5000	2.5000	7.5000
5	14:57:53	384.1755	80.0004	815487.4200	50.0001	2.5000	17.5000	0.0000	10.0000
x		380.3420	82.6671	810652.7900	49.5001	4.5000	14.0000	3.5000	7.0000
%RSD		5.397	6.510	0.657	9.715	106.863	29.881	108.327	39.123

Run	Time	103Rh	107Ag	108Mo O	109Ag	111Cd	115In	118Sn	121Sb
1	14:55:14	952516.8500	3336.9180	75.0003	3079.3188	650.0254	873234.5000	25.0000	3670.8083
2	14:55:54	956792.5800	3501.9857	30.0001	3293.1506	661.2762	873392.3300	20.0000	3763.3496
3	14:56:34	964054.9100	3603.2788	57.5002	3303.1545	731.2821	871625.9600	27.5000	3788.3609
4	14:57:13	971737.6100	3523.2446	65.0003	3400.6937	756.2843	883748.5200	57.5002	3660.8039
5	14:57:53	964580.8700	3271.8922	42.5001	3086.8216	633.7741	892324.2100	27.5000	3738.3383
x		961936.5600	3447.4639	54.0002	3232.6279	686.5284	878865.1100	31.5001	3724.3322
%RSD		0.776	3.999	33.159	4.420	7.851	1.016	47.154	1.514

Run	Time	135Ba	137Ba	159Tb	203Tl	205Tl	206Pb	207Pb	208Pb
1	14:55:14	3468.2216	6137.2591	1380218.6000	2644.1694	6137.2591	2167.7819	1977.7347	4523.7275
2	14:55:54	3508.2383	6620.1285	1377484.2000	2662.9254	6561.3320	2112.7678	1942.7264	4648.7963
3	14:56:34	3818.3746	6289.8729	1374958.6000	2709.1903	6588.8538	2135.2735	1935.2247	4623.7824
4	14:57:13	3775.8552	6562.5830	1387435.2000	2737.9497	6747.7308	2077.7590	1997.7394	4778.8699
5	14:57:53	3548.2552	6407.4624	1388186.2000	2599.1553	6136.0082	2007.7418	1875.2110	4363.6422
x		3623.7890	6403.4612	1381656.5000	2670.6780	6434.2368	2100.2648	1945.7272	4587.7637
%RSD		4.455	3.084	0.429	2.041	4.365	2.916	2.414	3.375

Run	Time	209Bi	220Bkg
1	14:55:14	966213.5100	2.5000
2	14:55:54	969546.8700	0.0000
3	14:56:34	966887.9100	2.5000
4	14:57:13	972093.2200	0.0000
5	14:57:53	978524.6700	0.0000
x		970653.2400	1.0000
%RSD		0.513	136.931

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User Pre-dilution: 1.00

Run	Time	6Li	9Be	23Na	24Mg	25Mg	26Mg	27Al	39K
1	14:59:34	264373.9700	7862.0403	56981.6510	10686.8480	1325.1053	1680.1694	32691.4990	52769.0470
2	15:00:13	264925.2300	8078.0801	58625.4940	11127.4240	1445.1253	1630.1594	32751.7340	52816.8480
3	15:00:53	269496.7000	8165.6654	59259.9580	10771.9580	1565.1470	1445.1253	32478.1670	52316.2050
4	15:01:32	266846.7700	8278.2764	59038.3940	10776.9640	1265.0960	1550.1442	33060.4500	53423.1950
5	15:02:12	270445.8900	8094.7629	59139.1040	10311.3760	1255.0945	1475.1305	32179.5120	51953.9490
X		267217.7100	8095.7650	58608.9200	10734.9140	1371.1136	1556.1458	32632.2720	52655.8490
%RSD		1.009	1.885	1.605	2.711	9.644	6.409	1.005	1.055

Run	Time	44Ca	45Sc	47Ti	51V	52Cr	54Fe	55Mn	56Fe
1	14:59:34	840.0423	479212.3100	35.0001	35450.2430	34174.9320	3440.7102	47321.4790	124706.1700
2	15:00:13	872.5457	481338.5000	22.5000	35289.5630	34551.4800	3475.7247	47344.1070	124571.6800
3	15:00:53	790.0375	483106.5400	22.5000	35771.6120	35199.1820	3685.8149	47957.6000	125647.6500
4	15:01:32	907.5494	487169.3700	20.0000	35492.9240	34742.2710	3555.7584	48048.1190	124234.2000
5	15:02:12	777.5363	487815.5800	32.5001	35525.5630	35513.0100	3498.2341	47761.4780	123513.6000
X		837.5422	483728.4600	26.5000	35505.9810	34836.1750	3531.2485	47686.5570	124534.6600
%RSD		6.537	0.767	25.489	0.490	1.517	2.718	0.711	0.622

Run	Time	57Fe	59Co	60Ni	63Cu	65Cu	66Zn	75As	78Se
1	14:59:34	1147.5790	46325.9080	10651.8030	24987.4060	11996.1280	9345.2371	5174.1058	2229.4649
2	15:00:13	1090.0713	46484.2870	10641.7910	25172.9630	11963.5810	9305.1923	5149.9241	2315.3216
3	15:00:53	1137.5776	46308.3110	10832.0350	25539.0750	12549.4420	9325.2147	5337.5421	2235.2998
4	15:01:32	1120.0753	47072.5750	11087.3710	25335.9560	12744.7380	9287.6728	5167.4350	2313.6545
5	15:02:12	1150.0794	46305.7970	10734.4090	25037.5560	12529.4120	9257.6394	5205.7922	2271.9763
X		1129.0765	46499.3760	10789.4820	25214.5910	12356.6600	9304.1912	5206.9598	2273.1434
%RSD		2.196	0.707	1.699	0.897	2.867	0.363	1.455	1.809

Run	Time	82Se	83Kr	89Y	94Mo	95Mo	96Mo	97Mo	98Mo
1	14:59:34	624.1900	73.3337	808239.7600	52.5002	12.5000	12.5000	2.5000	5.0000
2	15:00:13	677.5275	95.0005	811871.0900	60.0002	5.0000	15.0000	5.0000	5.0000
3	15:00:53	704.1964	71.6670	810980.3000	62.5002	5.0000	15.0000	0.0000	10.0000
4	15:01:32	714.1973	67.5003	813548.4400	45.0001	7.5000	10.0000	5.0000	17.5000
5	15:02:12	674.1939	76.6670	815891.7700	55.0002	2.5000	17.5000	10.0000	15.0000
X		678.8610	76.8337	812106.2700	55.0002	6.5000	14.0000	4.5000	10.5000
%RSD		5.157	13.898	0.352	12.448	58.330	20.360	82.402	54.294

Run	Time	103Rh	107Ag	108Mo O	109Ag	111Cd	115In	118Sn	121Sb
1	14:59:34	960659.3000	32614.9490	475.0135	31066.5500	6902.8578	875145.2100	37.5001	17528.4150
2	15:00:13	959929.4400	33193.4770	457.5126	32450.5600	7095.5195	877765.4800	42.5001	17798.9880
3	15:00:53	963968.1800	34302.9570	562.5190	32779.3430	7228.1334	884821.4100	32.5001	18290.0500
4	15:01:32	967071.2200	34427.2170	480.0138	32701.5380	7134.3026	878568.9000	20.0000	17801.4930
5	15:02:12	963680.0400	33278.8160	460.0127	31525.7700	7085.5110	879319.7400	42.5001	17964.3420
X		963061.6400	33563.4830	487.0143	32104.7520	7089.2649	879124.1500	35.0001	17876.6580
%RSD		0.298	2.313	8.887	2.384	1.671	0.404	26.726	1.561

Run	Time	135Ba	137Ba	159Tb	203Tl	205Tl	206Pb	207Pb	208Pb
1	14:59:34	3633.2919	6364.9298	1381813.3000	25960.3740	62467.0030	21425.0060	17876.6540	45157.0190
2	15:00:13	3463.2195	6422.4739	1385686.9000	26463.2010	63584.1550	22039.1050	18320.1150	46152.4500
3	15:00:53	3695.8194	6665.1644	1392969.5000	26750.3660	65449.7650	22134.3570	18573.1750	46770.8840
4	15:01:32	3645.7973	6449.9952	1370222.8000	26558.5040	63849.9250	21753.3550	18375.2370	45765.3240
5	15:02:12	3670.8083	6329.9031	1382291.2000	25855.0470	62419.1470	21445.0580	17991.9020	44908.1800
X		3621.7873	6446.4933	1382596.7000	26317.4980	63553.9990	21759.3760	18227.4160	45750.7710
%RSD		2.536	2.032	0.595	1.482	1.951	1.506	1.572	1.645

Run	Time	209Bi	220Bkg
1	14:59:34	970872.4500	2.5000
2	15:00:13	975678.1200	0.0000
3	15:00:53	976613.8000	2.5000
4	15:01:32	974064.7400	2.5000
5	15:02:12	972794.6900	0.0000
X		974004.7600	1.5000
%RSD		0.235	91.287

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User Pre-dilution: 1.00

Run	Time	6Li	9Be	23Na	24Mg	25Mg	26Mg	27Al	39K
1	15:03:53	267664.0300	40874.1630	107904.1000	49345.6680	6152.2702	7067.9961	149959.7400	80857.8860
2	15:04:33	267278.6200	40608.7040	108749.9900	49084.1310	6627.6345	7128.0472	149239.4900	81882.8210
3	15:05:12	267167.6400	41077.6600	110348.3000	50653.4800	6002.1608	7238.1421	152981.4300	80406.0460
4	15:05:52	268662.9200	40075.2970	107134.2700	48334.7700	6117.2444	7062.9919	146249.6700	80668.5640
5	15:06:32	268249.0700	37942.0130	102691.3600	48400.1470	5556.8521	6762.7430	141157.9900	76587.8320
x		267804.4500	40115.5670	107365.6000	49163.6390	6091.2324	7051.9841	147917.6700	80080.6300
%RSD		0.239	3.170	2.675	1.911	6.282	2.502	3.024	2.536

Run	Time	44Ca	45Sc	47Ti	51V	52Cr	54Fe	55Mn	56Fe
1	15:03:53	2060.2546	476610.5400	35.0001	174135.5800	169657.1100	8434.2661	235357.3000	183866.2800
2	15:04:33	1990.2376	477302.2400	30.0001	174607.8100	170078.0600	8369.2005	233182.4300	183194.2100
3	15:05:12	1952.7288	479347.2500	25.0000	176519.9600	173058.4900	8814.6594	237468.4400	184998.4200
4	15:05:52	1917.7206	483208.4500	22.5000	170823.0700	166881.9100	8737.0778	234591.1500	182565.6400
5	15:06:32	1810.1966	477166.0100	22.5000	162917.1000	159489.2400	8471.8041	223356.2000	178675.1700
x		1946.2277	478726.9000	27.0000	171800.7000	167832.9600	8565.4016	232791.1000	182659.9500
%RSD		4.758	0.566	20.074	3.127	3.070	2.306	2.361	1.316

Run	Time	57Fe	59Co	60Ni	63Cu	65Cu	66Zn	75As	78Se
1	15:03:53	2332.8265	230609.8000	52814.3330	124203.7500	60274.6970	37137.5680	26233.7280	7953.7940
2	15:04:33	2632.9159	235493.5700	52587.9070	123371.5200	59549.5110	38207.3880	26079.0770	8031.3683
3	15:05:12	2700.4375	234408.6200	53848.4190	125175.6300	61639.6270	38167.2040	26339.0590	7907.9170
4	15:05:52	2555.3917	230841.0800	52364.0040	123407.0400	59280.1010	37968.8010	25681.1770	7922.0971
5	15:06:32	2552.8910	217591.6600	49617.2740	116582.3200	57019.4080	35214.2460	24436.6100	7559.2603
x		2554.8925	229788.9500	52246.3870	122548.0500	59552.6690	37339.0410	25753.9300	7874.8873
%RSD		5.416	3.111	3.016	2.787	2.831	3.385	3.020	2.321

Run	Time	82Se	83Kr	89Y	94Mo	95Mo	96Mo	97Mo	98Mo
1	15:03:53	3064.7301	87.5005	791156.2400	90.0005	10.0000	32.5001	5.0000	15.0000
2	15:04:33	3142.2590	68.3336	794646.0100	77.5004	12.5000	40.0001	7.5000	25.0000
3	15:05:12	3004.7083	81.6671	795551.6000	97.5006	7.5000	37.5001	10.0000	22.5000
4	15:05:52	2962.1930	75.8337	797022.7000	72.5003	15.0000	40.0001	7.5000	7.5000
5	15:06:32	2843.8185	65.8336	799932.7000	80.0004	15.0000	25.0000	5.0000	32.5001
x		3003.5418	75.8337	795661.8500	83.5004	12.0000	35.0001	7.0000	20.5000
%RSD		3.730	11.912	0.405	12.088	27.163	18.211	29.881	46.757

Run	Time	103Rh	107Ag	108Mo O	109Ag	111Cd	115In	118Sn	121Sb
1	15:03:53	944716.8800	164904.3700	2335.3272	158280.2700	34546.4590	864096.5800	60.0002	88762.7250
2	15:04:33	947237.9200	167219.8300	2302.8181	160579.8900	34939.3420	869109.9100	40.0001	90491.1660
3	15:05:12	947631.6300	167954.3800	2295.3161	161683.4200	35496.6900	868371.0100	50.0001	89700.1830
4	15:05:52	952894.0300	169615.0200	2427.8536	161766.2600	33995.4500	869912.5300	72.5003	87971.9050
5	15:06:32	949801.5700	154921.7800	2175.2839	148804.3100	32648.8320	870145.0300	77.5004	85933.2990
x		948456.4100	164923.0800	2307.3198	158222.8300	34325.3550	868327.0100	60.0002	88571.8560
%RSD		0.323	3.542	3.931	3.444	3.164	0.284	25.854	1.981

Run	Time	135Ba	137Ba	159Tb	203Tl	205Tl	206Pb	207Pb	208Pb
1	15:03:53	17881.6650	31823.1470	1353809.0000	130021.4800	312283.6500	106698.7300	90402.7140	227087.5300
2	15:04:33	18555.6360	32229.7050	1357311.0000	132356.5600	316461.9200	105969.5200	89892.2360	226406.8800
3	15:05:12	18435.3690	32244.7630	1356644.4000	131677.1800	318695.9300	108620.8300	90867.7300	227174.8700
4	15:05:52	18222.4020	32540.9110	1363561.2000	132432.7600	317563.9300	107210.2300	91759.9270	224714.4900
5	15:06:32	17287.9140	30357.6950	1373239.1000	123261.1600	297734.1400	102493.9500	85817.1110	214582.6200
x		18076.5970	31839.2440	1360912.9000	129949.8300	312547.9100	106198.6500	89747.9440	223993.2800
%RSD		2.820	2.722	0.570	2.973	2.761	2.153	2.565	2.390

Run	Time	209Bi	220Bkg
1	15:03:53	956718.5100	2.5000
2	15:04:33	950111.6100	0.0000
3	15:05:12	961048.0200	2.5000
4	15:05:52	964610.2500	0.0000
5	15:06:32	966575.8900	5.0000
x		959812.8500	2.0000
%RSD		0.687	104.583

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User Pre-dilution: 1.00

Run	Time	6Li	9Be	23Na	24Mg	25Mg	26Mg	27Al	39K
1	15:08:13	264607.0200	159887.6000	352235.1000	189127.0600	23583.3230	27184.2670	553119.3300	199189.9800
2	15:08:52	263156.3200	160254.5500	356866.0200	189500.4000	24099.7980	27901.6320	566721.7000	200139.8400
3	15:09:32	262860.5400	161941.7000	359902.5100	192687.2400	24626.3340	27359.8400	565182.2400	199358.9500
4	15:10:12	261235.6200	159808.6100	355118.7000	190257.3600	24420.7300	26542.2020	557724.0500	200011.8200
5	15:10:52	262891.4900	156420.2200	343441.7400	186028.4800	23112.0060	26221.1880	544215.8500	191093.6700
x		262950.2000	159662.5400	353512.8200	189520.1100	23968.4380	27041.8260	557392.6300	197958.8500
%RSD		0.456	1.258	1.776	1.263	2.586	2.469	1.653	1.950

Run	Time	44Ca	45Sc	47Ti	51V	52Cr	54Fe	55Mn	56Fe
1	15:08:13	6670.1684	468488.8600	37.5001	687389.8400	669868.1000	28275.3890	934994.0600	414655.9400
2	15:08:52	6647.6504	468765.0100	20.0000	689387.6900	673382.6100	27394.9550	942779.8300	413190.7900
3	15:09:32	6547.5712	461234.2500	40.0001	685994.0600	670795.9600	27134.1040	934586.9700	410526.3300
4	15:10:12	6475.0146	465574.6500	50.0001	676183.8700	662556.8700	27588.0910	931303.0300	409628.7400
5	15:10:52	6545.0693	463377.1100	32.5001	668001.8500	650894.3900	26454.4240	909200.4900	404030.1000
x		6577.0948	465487.9700	36.0001	681391.4600	665499.5900	27369.3920	930572.8700	410406.3800
%RSD		1.225	0.699	30.508	1.328	1.367	2.425	1.361	0.998

Run	Time	57Fe	59Co	60Ni	63Cu	65Cu	66Zn	75As	78Se
1	15:08:13	8249.0808	925371.0900	207850.1700	484072.7600	234760.8300	148636.3500	100703.9900	28272.0440
2	15:08:52	8153.9873	927399.0400	206217.8600	491287.1200	236054.1000	150954.9700	101662.1900	28737.8000
3	15:09:32	8421.7534	938273.7900	208273.0400	491207.6400	235933.2500	150573.1600	102191.1000	28670.0670
4	15:10:12	8166.4995	925493.6500	206092.3100	492097.9300	234632.2800	147783.8900	100877.7400	28481.0870
5	15:10:52	7958.7987	901533.2600	203013.1000	480579.0000	230293.7400	144807.3100	99365.5670	27866.5150
x		8190.0240	923614.1700	206289.3000	487848.8900	234334.8400	148551.1400	100960.1200	28405.5030
%RSD		2.048	1.456	1.004	1.066	1.003	1.665	1.065	1.238

Run	Time	82Se	83Kr	89Y	94Mo	95Mo	96Mo	97Mo	98Mo
1	15:08:13	11601.4030	74.1670	789916.5000	140.0012	22.5000	80.0004	15.0000	35.0001
2	15:08:52	11563.8510	68.3336	781941.9500	215.0028	10.0000	57.5002	17.5000	42.5001
3	15:09:32	11468.7200	75.0003	771801.3100	122.5009	20.0000	60.0002	12.5000	32.5001
4	15:10:12	11693.1980	67.5003	777271.3500	145.0013	32.5001	57.5002	17.5000	42.5001
5	15:10:52	11228.3930	75.8337	774103.3400	135.0011	30.0001	70.0003	7.5000	20.0000
x		11511.1130	72.1670	779006.8900	151.5014	23.0000	65.0003	14.0000	34.5001
%RSD		1.541	5.453	0.923	24.072	38.736	15.142	29.881	26.821

Run	Time	103Rh	107Ag	108Mo O	109Ag	111Cd	115In	118Sn	121Sb
1	15:08:13	931712.7600	652063.1700	9072.4359	622849.1900	136497.5600	849543.1800	112.5008	351309.7500
2	15:08:52	928872.9300	662383.9000	9275.1588	635683.5900	139105.1500	848273.0500	115.0008	355582.8800
3	15:09:32	922410.8000	668561.6800	9337.7287	639801.5200	137901.6500	838427.4900	120.0009	353608.9900
4	15:10:12	918825.2500	674936.0400	8932.2846	651554.3400	136538.2200	842010.6800	130.0010	354636.2900
5	15:10:52	932568.5100	634469.8700	8882.2311	605351.4200	132284.1800	836985.2500	117.5008	348982.4600
x		926878.0500	658482.9300	9099.9678	631048.0100	136465.3500	843047.9300	119.0009	352824.0700
%RSD		0.649	2.408	2.222	2.797	1.887	0.673	5.676	0.757

Run	Time	135Ba	137Ba	159Tb	203Tl	205Tl	206Pb	207Pb	208Pb
1	15:08:13	70595.2600	125779.6200	1338822.5000	519543.4300	1263184.5000	425689.4000	357791.9800	909662.0100
2	15:08:52	71460.0850	125518.2200	1320770.8000	526087.9800	1288159.6000	427964.0800	362365.8900	916548.8500
3	15:09:32	72198.9120	127523.3200	1326517.8000	528007.6100	1293052.6000	434436.4200	362647.7700	917041.3700
4	15:10:12	71439.9130	125355.8100	1334400.2000	526944.6400	1294109.4000	431499.5800	363083.6400	910913.2600
5	15:10:52	69180.9730	122341.5000	1338977.1000	505978.2400	1230337.6000	412555.4400	350757.1800	884120.0000
x		70975.0290	125303.7000	1331897.7000	521312.3800	1273768.7000	426428.9900	359329.2900	907657.1000
%RSD		1.624	1.492	0.602	1.762	2.147	1.980	1.461	1.494

Run	Time	209Bi	220Bkg
1	15:08:13	949962.1800	0.0000
2	15:08:52	951965.0600	0.0000
3	15:09:32	939505.4000	7.5000
4	15:10:12	943149.6200	0.0000
5	15:10:52	944330.2700	2.5000
x		945782.5100	2.0000
%RSD		0.539	162.980

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User Pre-dilution: 1.00

Run	Time	6Li	9Be	23Na	24Mg	25Mg	26Mg	27Al	39K
1	15:12:33	258252.2600	389436.9000	820148.2300	468266.8900	59134.0680	67023.4490	T 1364566.7000	426562.3900
2	15:13:12	260140.4800	390515.6600	T 847925.2800	469789.0800	59632.6020	66559.7550	1390480.7000	429200.2900
3	15:13:52	258763.5900	393503.9200	833373.8000	467347.3700	59290.1720	65294.8060	T 1361389.2000	423349.6100
4	15:14:32	255348.1300	383859.3400	827331.4100	460897.6200	57724.2350	63334.7660	1352984.8000	420886.9500
5	15:15:12	258090.7000	370525.7100	779317.3400	444422.9100	55413.6300	62987.1470	1315970.3000	395303.6700
X		258119.0300	385568.3100	T 821619.2100	462144.7700	58238.9410	65039.9850	T 1357078.3000	419060.5800
%RSD		0.677	2.361	T 3.135	2.266	2.986	2.817	T 1.983	3.257

Run	Time	44Ca	45Sc	47Ti	51V	52Cr	54Fe	55Mn	56Fe
1	15:12:33	15436.7840	458536.3000	17.5000	T 1729404.3000	1694779.9000	65471.1820	T 2297150.2000	882099.2500
2	15:13:12	15672.2230	460443.5200	22.5000	T 1714300.9000	1688337.3000	65040.3280	T 2290017.7000	875690.8000
3	15:13:52	15659.7000	458253.8800	15.0000	T 1703988.0000	1683359.9000	65660.1600	T 2292728.9000	879527.5500
4	15:14:32	15233.9120	455853.7200	35.0001	T 1656934.4000	1636766.2000	63065.2340	T 2220375.0000	850653.3200
5	15:15:12	14522.6430	455972.4600	30.0001	T 1604637.9000	1585277.1000	61314.7430	T 2141069.5000	826417.0100
X		15305.0520	457811.9700	24.0000	T 1681853.1000	1657704.1000	64110.3290	T 2248268.2000	862877.5900
%RSD		3.091	0.421	35.016	T 3.030	2.806	2.921	T 3.015	2.773

Run	Time	57Fe	59Co	60Ni	63Cu	65Cu	66Zn	75As	78Se
1	15:12:33	19430.1250	T 2289999.3000	510151.5000	1210716.3000	588514.7100	367553.3300	249857.9100	M 68644.0610
2	15:13:12	19818.5380	T 2307765.3000	513468.7200	1210069.1000	581296.0100	369211.7800	251066.7800	M 68143.3090
3	15:13:52	19362.4680	T 2290463.7000	512050.3100	1207998.5000	579004.4400	366613.2500	248699.0100	M 68680.1900
4	15:14:32	18620.7810	T 2258407.0000	500104.0800	1183750.4000	569782.7200	358097.1800	243768.1500	M 66944.4850
5	15:15:12	18064.5580	T 2177007.1000	478202.9900	1137513.5000	543645.3600	340390.2900	234453.1800	63445.6050
X		19059.2940	T 2264728.5000	502795.5200	1190009.6000	572448.6500	360373.1600	245569.0100	M 67171.5300
%RSD		3.699	T 2.304	2.926	2.641	3.046	3.322	2.771	M 3.272

Run	Time	82Se	83Kr	89Y	94Mo	95Mo	96Mo	97Mo	98Mo
1	15:12:33	M 28310.5080	68.3336	770088.1700	280.0047	27.5000	120.0009	22.5000	70.0003
2	15:13:12	M 28265.3550	82.5004	766665.6600	200.0024	37.5001	115.0008	25.0000	77.5004
3	15:13:52	M 28398.3060	73.3337	766961.0700	250.0038	12.5000	122.5009	27.5000	57.5002
4	15:14:32	M 27652.4700	72.5003	753524.3000	215.0028	45.0001	97.5006	27.5000	60.0002
5	15:15:12	26158.4920	77.5004	757550.9700	167.5017	42.5001	110.0007	35.0001	50.0001
X		M 27757.0260	74.8337	762958.0300	222.5031	33.0001	113.0008	27.5000	63.0002
%RSD		M 3.390	7.191	0.924	19.655	40.230	8.766	17.008	17.160

Run	Time	103Rh	107Ag	108Mo O	109Ag	111Cd	115In	118Sn	121Sb
1	15:12:33	922728.2200	M 1638822.7000	22761.0420	M 1566618.9000	339942.5600	841646.5000	82.5004	892998.5300
2	15:13:12	916882.7600	M 1647476.2000	22846.2740	M 1579498.4000	341651.6200	837175.5100	60.0002	895679.6600
3	15:13:52	916654.5800	M 1652837.4000	22705.8910	M 1583091.7000	341017.6800	835893.3900	82.5004	905589.7500
4	15:14:32	908830.7300	M 1652015.9000	21891.2160	M 1578965.1000	331775.6000	832954.8600	87.5005	873605.5400
5	15:15:12	911430.4900	1501563.3000	21209.4560	1432421.6000	317097.9200	827380.9800	87.5005	841343.0300
X		915305.3600	M 1618543.1000	22282.7760	M 1548119.2000	334297.0800	835010.2500	80.0004	881843.3000
%RSD		0.589	M 4.055	3.198	M 4.197	3.113	0.634	14.321	2.884

Run	Time	135Ba	137Ba	159Tb	203Tl	205Tl	206Pb	207Pb	208Pb
1	15:12:33	178225.7000	311336.6800	1333373.7000	1329646.3000	3333223.1000	1088416.8000	904303.1400	2336480.7000
2	15:13:12	177977.9900	312727.3300	1335205.1000	1339174.0000	3363465.3000	1094382.6000	923655.5000	2362719.0000
3	15:13:52	178023.9600	312623.5400	1331032.4000	1349547.3000	T 3273415.3000	1096046.4000	918691.6500	2370547.2000
4	15:14:32	175848.4900	304091.3800	1322486.1000	1329516.6000	T 3212944.7000	1066628.4000	894116.9600	2320847.7000
5	15:15:12	163286.7300	289981.5800	1313677.2000	1225052.3000	3072166.9000	1019238.7000	855175.4000	2192269.3000
X		174672.5700	306152.1000	1327154.9000	1314587.3000	T 3251043.0000	1072942.6000	899188.5300	2316572.8000
%RSD		3.686	3.174	0.676	3.859	T 3.552	3.005	3.029	3.121

Run	Time	209Bi	220Bkg
1	15:12:33	949125.6800	2.5000
2	15:13:12	953003.0000	12.5000
3	15:13:52	946791.1700	5.0000
4	15:14:32	949121.4900	10.0000
5	15:15:12	939728.5800	2.5000
X		947553.9800	6.5000
%RSD		0.518	69.869

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User Pre-dilution: 1.00

Run	Time	6Li	9Be	23Na	24Mg	25Mg	26Mg	27Al	39K
1	15:16:53	249620.1100	↹1862285.0000	↹3957328.8000	↹2244963.2000	276223.3200	311100.6100	↹6440629.8000	↹1808089.4000
2	15:17:33	248832.9200	↹1858435.8000	↹3955252.2000	↹2260600.0000	274817.9900	310151.1800	↹6435558.2000	↹1799429.7000
3	15:18:13	249751.4600	↹1873450.6000	↹3996391.8000	↹2275008.5000	276435.1800	309367.8600	↹6530112.3000	↹1817426.8000
4	15:18:53	246760.9900	↹1812864.4000	↹3943443.5000	↹2220610.4000	269183.4800	304399.8400	↹6262848.8000	↹1795024.6000
5	15:19:32	245630.8300	↹1789583.6000	↹3820204.3000	↹2141836.1000	268734.3300	298212.0300	↹6246985.9000	↹1705302.9000
x		248119.2600	↹1839323.9000	↹3934524.1000	↹2228603.6000	273078.8600	306646.3000	↹6383227.0000	↹1785054.7000
%RSD		0.739	↹1.966	↹1.701	↹2.357	1.397	1.754	↹1.929	↹2.543

Run	Time	44Ca	45Sc	47Ti	51V	52Cr	54Fe	55Mn	56Fe
1	15:16:53	71523.1220	434406.1500	50.0001	↹8095739.3000	↹7896339.2000	297414.2700	↹10742525.0000	↹3731828.2000
2	15:17:33	71311.3180	433519.2100	35.0001	↹8114142.9000	↹7873155.8000	298986.5600	↹10751368.0000	↹3724617.0000
3	15:18:13	72693.1810	428732.0900	27.5000	↹8191656.1000	↹7914569.6000	300800.1000	↹10834358.0000	↹3752674.3000
4	15:18:53	69964.9780	430922.0700	192.5022	↹7922961.2000	↹7629653.4000	291487.7800	↹10489551.0000	↹3647515.8000
5	15:19:32	67915.6290	427305.2800	27.5000	↹7710448.4000	↹7549302.3000	286121.5300	↹10292552.0000	↹3596405.4000
x		70681.6460	430976.9600	66.5005	↹8006989.6000	↹7772604.1000	294962.0500	↹10622071.0000	↹3690608.1000
%RSD		2.581	0.703	106.817	↹2.406	↹2.190	2.052	↹2.118	↹1.789

Run	Time	57Fe	59Co	60Ni	63Cu	65Cu	66Zn	75As	78Se
1	15:16:53	87496.9440	↹10884616.0000	↹2383307.1000	↹5672571.9000	↹2749212.6000	1721429.2000	1193917.5000	714.1973
2	15:17:33	88560.5910	↹10864933.0000	↹2392249.9000	↹5687161.3000	↹2723133.2000	1724859.4000	1186060.2000	719.1977
3	15:18:13	87350.4190	↹10994552.0000	↹2423029.2000	↹5713009.2000	↹2741211.0000	1732290.3000	1186683.6000	730.8654
4	15:18:53	85344.7980	↹10723943.0000	↹2346616.3000	↹5589007.8000	↹2712323.9000	1681563.0000	1159561.4000	697.5292
5	15:19:32	83592.1670	↹10378974.0000	↹2284379.1000	↹5441769.8000	↹2625881.2000	1652552.0000	1135916.0000	678.3609
x		86468.9840	↹10769404.0000	↹2365916.3000	↹5620704.0000	↹2710352.4000	1702538.8000	1172427.8000	708.0301
%RSD		2.295	↹2.215	↹2.244	↹1.962	↹1.823	2.009	2.067	2.890

Run	Time	82Se	83Kr	89Y	94Mo	95Mo	96Mo	97Mo	98Mo
1	15:16:53	89.1671	77.5004	720760.1300	990.0588	97.5006	222.5030	60.0002	272.5045
2	15:17:33	102.5006	75.0003	708869.7600	647.5252	90.0005	247.5037	82.5004	267.5043
3	15:18:13	100.0006	61.6669	707973.1400	462.5128	120.0009	232.5032	70.0003	280.0047
4	15:18:53	78.3337	75.8337	712435.4400	427.5110	77.5004	167.5017	85.0004	225.0030
5	15:19:32	107.5007	73.3337	710296.4000	350.0074	102.5006	172.5018	72.5003	250.0038
x		95.5006	72.6670	712066.9700	575.5230	97.5006	208.5027	74.0003	259.0041
%RSD		12.257	8.711	0.722	44.517	16.115	17.409	13.640	8.487

Run	Time	103Rh	107Ag	108Mo O	109Ag	111Cd	115In	118Sn	121Sb
1	15:16:53	848637.5100	1983.9861	105045.4300	1856.4568	1624681.9000	788186.0900	47.5001	↹4403554.9000
2	15:17:33	855136.7200	2101.5149	105139.1000	2114.0181	1627728.2000	780604.8900	45.0001	↹4373029.4000
3	15:18:13	856631.7000	3230.6261	105078.3400	3141.8422	1628175.6000	775494.1700	57.5002	↹4379239.1000
4	15:18:53	852617.1200	3879.6529	102126.9800	3733.3361	1585088.3000	776950.9400	67.5003	↹4281199.7000
5	15:19:32	842579.0500	1346.3588	100573.2600	1267.5964	1555676.0000	784252.1400	52.5002	↹4214293.3000
x		851120.4200	2508.4278	103592.6200	2422.6499	1604270.0000	781097.6500	54.0002	↹4330263.3000
%RSD		0.664	40.815	2.046	41.200	2.036	0.668	16.564	↹1.842

Run	Time	135Ba	137Ba	159Tb	203Tl	205Tl	206Pb	207Pb	208Pb
1	15:16:53	844565.8700	1506329.7000	1259893.9000	↹6247079.9000	↹15248351.0000	↹4990242.8000	↹4496021.6000	↹11034262.0000
2	15:17:33	841903.0800	1502157.5000	1246567.6000	↹6262470.6000	↹15303218.0000	↹5000418.1000	↹4499552.2000	↹11083359.0000
3	15:18:13	837608.4500	1492064.8000	1245334.6000	↹6297704.1000	↹15430531.0000	↹5016238.0000	↹4534560.2000	↹11171539.0000
4	15:18:53	826177.4000	1472010.8000	1251394.7000	↹6272270.7000	↹15290485.0000	↹4933777.6000	↹4445999.6000	↹10953321.0000
5	15:19:32	802467.3800	1436529.3000	1260550.5000	↹5998401.4000	↹14621241.0000	↹4827345.8000	↹4367305.9000	↹10695811.0000
x		830544.4400	1481818.4000	1252748.3000	↹6215585.3000	↹15178765.0000	↹4953604.5000	↹4468687.9000	↹10987658.0000
%RSD		2.071	1.929	0.574	↹1.976	↹2.102	↹1.557	↹1.452	↹1.650

Run	Time	209Bi	220Bkg
1	15:16:53	890703.8400	10.0000
2	15:17:33	885428.6100	2.5000
3	15:18:13	885072.3300	2.5000
4	15:18:53	887828.7000	2.5000
5	15:19:32	890852.2700	0.0000
x		887977.1500	3.5000
%RSD		0.312	108.327

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User Pre-dilution: 1.00

Run	Time	6Li	9Be	23Na	24Mg	25Mg	26Mg	27Al	39K
1	15:21:14	249001.1700	T 3626398.0000	T 7865099.3000	T 4439969.0000	542496.5000	604320.4800	T 12509785.0000	T 3420909.5000
2	15:21:54	247637.2500	TM 3634140.2000	T 7936759.7000	T 4486477.8000	547871.6200	608788.7800	T 12556700.0000	T 3463680.7000
3	15:22:35	245983.5000	TM 3632643.1000	T 7911391.2000	T 4492052.2000	555951.2700	617748.4500	T 12709921.0000	T 3509238.2000
4	15:23:15	255807.7400	T 3700349.7000	T 8104988.8000	T 4505256.1000	549354.6300	614312.9000	T 12777871.0000	T 3522026.9000
5	15:23:55	250288.9000	T 3660597.7000	T 7896518.1000	T 4462077.8000	543589.3800	611383.8200	T 12737871.0000	T 3430133.9000
X		249743.7100	TM 3650825.7000	T 7942951.4000	T 4477166.6000	547852.6800	611310.8800	T 12658430.0000	T 3469197.8000
%RSD		1.501	TM 0.839	T 1.186	T 0.581	0.977	0.841	T 0.932	T 1.312

Run	Time	44Ca	45Sc	47Ti	51V	52Cr	54Fe	55Mn	56Fe
1	15:21:14	137589.0400	432213.9600	42.5001	T 15952259.0000	T 15364369.0000	586791.8500	T 20947444.0000	T 7175169.6000
2	15:21:54	142225.9200	431082.5600	72.5003	TM 16036226.0000	TM 15602257.0000	584777.3700	TM 21203032.0000	T 7262180.9000
3	15:22:35	141691.9400	435427.4400	45.0001	TM 16141963.0000	TM 15629087.0000	594401.2700	TM 21351661.0000	T 7275675.4000
4	15:23:15	140873.2400	440261.7700	57.5002	TM 16324735.0000	T 15716730.0000	590495.2100	T 21210902.0000	T 7274227.6000
5	15:23:55	139510.6000	435824.9300	30.0001	T 15955599.0000	T 15594552.0000	582891.9100	T 20840929.0000	T 7202608.4000
X		140378.1500	434962.1300	49.5002	TM 16082156.0000	TM 15581399.0000	587871.5200	TM 21110794.0000	T 7237972.4000
%RSD		1.329	0.826	32.614	TM 0.970	TM 0.839	0.784	TM 0.994	T 0.638

Run	Time	57Fe	59Co	60Ni	63Cu	65Cu	66Zn	75As	78Se
1	15:21:14	168973.4300	TM 21312949.0000	T 4679298.2000	T 10980348.0000	T 5284954.4000	T 3221440.5000	T 2319149.8000	703.3630
2	15:21:54	170792.4500	T 21152815.0000	T 4660990.5000	T 10995063.0000	TM 5343555.2000	TM 3267231.5000	TM 2338743.2000	722.5313
3	15:22:35	171374.2100	TM 21386439.0000	TM 4749739.2000	TM 11157531.0000	TM 5389786.9000	T 3272949.5000	TM 2359100.7000	723.3647
4	15:23:15	169248.9300	T 21424623.0000	T 4717180.4000	T 11147586.0000	T 5407661.9000	T 3247014.3000	T 2337010.0000	735.0324
5	15:23:55	168409.6900	T 21225946.0000	T 4690759.4000	T 11134623.0000	TM 5392485.3000	T 3246134.6000	T 2334943.5000	744.1999
X		169759.7400	TM 21300554.0000	TM 4699593.5000	TM 11083030.0000	TM 5363688.8000	TM 3250954.1000	TM 2337789.5000	725.6983
%RSD		0.744	TM 0.527	TM 0.737	TM 0.790	TM 0.934	TM 0.626	TM 0.609	2.117

Run	Time	82Se	83Kr	89Y	94Mo	95Mo	96Mo	97Mo	98Mo
1	15:21:14	100.0006	65.0003	697560.0600	435.0114	197.5023	265.0042	115.0008	517.5161
2	15:21:54	103.3340	77.5004	697750.0100	437.5115	237.5034	280.0047	120.0009	487.5143
3	15:22:35	107.5007	77.5004	697779.8700	442.5118	182.5020	257.5040	132.5011	417.5105
4	15:23:15	105.0007	78.3337	704344.1100	317.5061	187.5021	262.5041	112.5008	445.0119
5	15:23:55	95.8339	76.6670	702625.2000	350.0074	237.5034	225.0030	100.0006	467.5131
X		102.3340	75.0003	700011.8500	396.5096	208.5026	258.0040	116.0008	467.0132
%RSD		4.438	7.495	0.461	14.751	12.959	7.854	10.177	8.228

Run	Time	103Rh	107Ag	108Mo O	109Ag	111Cd	115In	118Sn	121Sb
1	15:21:14	824536.1800	1122.5756	200951.5300	1120.0753	T 3026843.2000	758529.2300	75.0003	T 8336487.0000
2	15:21:54	837928.3300	1463.8786	199927.3300	1441.3746	T 3055352.3000	763061.2900	52.5002	TM 8474299.0000
3	15:22:35	832326.4900	2919.2612	200234.5700	2928.0143	T 3076666.0000	765109.4100	72.5003	TM 8464967.5000
4	15:23:15	835523.9500	2924.2630	198913.5000	2835.4823	T 3031543.7000	763140.5800	100.0006	T 8344249.1000
5	15:23:55	835606.6600	1042.5652	198626.7800	993.8093	T 3026289.7000	769863.8000	77.5004	T 8373930.9000
X		833184.3200	1894.5087	199730.7400	1863.7512	T 3043339.0000	763940.8600	75.5004	TM 8398786.7000
%RSD		0.628	50.198	0.480	50.655	T 0.727	0.536	22.385	TM 0.789

Run	Time	135Ba	137Ba	159Tb	203Tl	205Tl	206Pb	207Pb	208Pb
1	15:21:14	TM 1672856.1000	T 2820600.9000	1212609.1000	TM 11991847.0000	T 28973645.0000	T 9485592.8000	T 8551135.5000	T 21055089.0000
2	15:21:54	TM 1694471.6000	T 2857308.2000	1228112.4000	TM 12212712.0000	T 29580835.0000	T 9643810.7000	T 8693527.5000	T 21388391.0000
3	15:22:35	TM 1706384.9000	TM 2879716.8000	1223940.3000	TM 12227300.0000	T 29734315.0000	T 9690267.8000	T 8707705.4000	T 21475280.0000
4	15:23:15	TM 1676644.4000	T 2840941.0000	1220340.1000	TM 12170432.0000	T 29504294.0000	T 9569761.5000	T 8671824.0000	T 21343095.0000
5	15:23:55	TM 1695928.6000	T 2836672.7000	1226778.2000	T 11963539.0000	T 29100483.0000	T 9572918.1000	T 8645791.0000	T 21260767.0000
X		TM 1689257.1000	TM 2847047.9000	1222356.0000	TM 12113166.0000	T 29378715.0000	T 9592470.2000	T 8653996.7000	T 21304524.0000
%RSD		TM 0.834	TM 0.789	0.508	TM 1.039	T 1.109	T 0.816	T 0.717	T 0.749

Run	Time	209Bi	220Bkg
1	15:21:14	840820.2600	5.0000
2	15:21:54	852864.3500	10.0000
3	15:22:35	852525.9600	12.5000
4	15:23:15	856431.3400	10.0000
5	15:23:55	861467.9400	12.5000
X		852821.9700	10.0000
%RSD		0.893	30.619

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User Pre-dilution: 1.00

Run	Time	6Li	9Be	23Na	24Mg	25Mg	26Mg	27Al	39K
1	15:25:37	232853.4200	1201.7533	τ76361082.0000	τ43107224.0000	τ5390855.9000	τ5936609.7000	τ121392830.0000	τ33947510.0000
2	15:26:16	236310.3800	761.7015	τ79662512.0000	τ44604031.0000	τ5557955.5000	τ6136956.3000	τ124316510.0000	τ34920431.0000
3	15:26:56	236534.0900	540.0175	τ79637323.0000	τ45228155.0000	τ5618404.9000	τ6200413.4000	τ126497290.0000	τ35415237.0000
4	15:27:36	238871.8800	403.3431	τ81544484.0000	τ45374484.0000	τ5652653.2000	τ6171035.6000	τ126531460.0000	τ36075869.0000
5	15:28:16	239881.0900	318.3394	τ77167217.0000	τ43859206.0000	τ5463778.6000	τ5969018.3000	τ122088230.0000	τ33721693.0000
X		236890.1700	645.0310	τ78874523.0000	τ44434620.0000	τ5536729.6000	τ6082806.7000	τ124165260.0000	τ34816148.0000
%RSD		1.149	54.796	τ2.657	τ2.145	τ1.961	τ1.994	τ1.934	τ2.839

Run	Time	44Ca	45Sc	47Ti	51V	52Cr	54Fe	55Mn	56Fe
1	15:25:37	1430281.4000	422666.2000	40.0001	5974.6410	5554.3504	τ4075469.2000	9990.9856	τ68547193.0000
2	15:26:16	1481467.6000	428636.0800	55.0002	3700.8216	4153.5349	τ4172725.7000	7968.8083	τ70505397.0000
3	15:26:56	1499403.8000	432649.4600	72.5003	2360.3342	3063.0628	τ4245863.4000	6620.1285	τ70832258.0000
4	15:27:36	τ1496634.5000	438664.5100	25.0000	1945.2270	2862.9917	τ4229613.7000	6122.2481	τ70580910.0000
5	15:28:16	1446049.5000	439894.3600	47.5001	2072.7577	2427.8536	τ4096392.1000	5799.5174	τ68992230.0000
X		τ1470767.4000	432502.1200	48.0002	3210.7563	3612.3587	τ4164012.8000	7300.3376	τ69891598.0000
%RSD		τ2.110	1.653	36.718	52.807	34.826	τ1.840	23.517	τ1.493

Run	Time	57Fe	59Co	60Ni	63Cu	65Cu	66Zn	75As	78Se
1	15:25:37	τ1691000.8000	6677.6744	2055.2534	4966.4795	2415.3500	2312.8209	834.2084	670.0269
2	15:26:16	1736943.8000	4503.7167	1642.6619	4068.4929	1782.6907	1915.2201	536.6840	699.1960
3	15:26:56	1765109.9000	3585.7713	1462.6283	3508.2383	1505.1359	1755.1848	411.6768	733.3656
4	15:27:36	1745595.7000	2812.9747	1320.1046	3023.0482	1362.6114	1677.6689	348.3406	739.1995
5	15:28:16	1696087.7000	2467.8654	1232.5912	2827.9798	1262.5956	1555.1451	267.5043	778.3697
X		τ1726947.6000	4009.6005	1542.6479	3678.8477	1665.6767	1843.2079	479.6828	724.0315
%RSD		τ1.865	42.014	21.126	23.513	27.769	15.907	46.127	5.696

Run	Time	82Se	83Kr	89Y	94Mo	95Mo	96Mo	97Mo	98Mo
1	15:25:37	75.8337	62.5002	669281.1400	97.5006	52.5002	140.0012	17.5000	62.5002
2	15:26:16	66.6669	66.6669	682081.6500	125.0009	30.0001	180.0019	37.5001	90.0005
3	15:26:56	73.3337	66.6669	685994.0600	165.0016	45.0001	157.5015	30.0001	75.0003
4	15:27:36	79.1670	75.8337	694255.4600	120.0009	57.5002	150.0014	45.0001	80.0004
5	15:28:16	77.5004	79.1670	700409.8500	160.0015	50.0001	155.0014	40.0001	87.5005
X		74.5003	70.1670	686404.4300	133.5011	47.0001	156.5015	34.0001	79.0004
%RSD		6.551	9.986	1.739	21.335	22.378	9.424	31.455	13.903

Run	Time	103Rh	107Ag	108Mo O	109Ag	111Cd	115In	118Sn	121Sb
1	15:25:37	785587.0200	496.2648	65.0003	473.7635	791.2876	723919.6800	50.0001	4553.7439
2	15:26:16	783270.9900	641.2747	35.0001	637.5244	473.7635	725857.8800	57.5002	3100.5767
3	15:26:56	797168.1800	1101.3228	27.5000	1132.5770	283.7548	737678.8300	40.0001	2325.3244
4	15:27:36	802873.8800	1433.8733	10.0000	1442.6249	213.7527	741458.1700	50.0001	1817.6982
5	15:28:16	801915.3500	612.5225	27.5000	517.5161	152.5014	746396.1400	57.5002	1607.6551
X		794163.0800	857.0516	33.0001	840.8012	383.0120	735062.1400	51.0002	2680.9996
%RSD		1.156	46.266	60.937	50.735	67.399	1.335	14.122	44.553

Run	Time	135Ba	137Ba	159Tb	203Tl	205Tl	206Pb	207Pb	208Pb
1	15:25:37	425.0108	812.5396	1169975.8000	4063.4905	9397.7961	2777.9629	2527.8834	5844.5488
2	15:26:16	285.0049	437.5115	1168315.3000	2597.9049	6304.8842	1767.6875	1735.1806	3685.8149
3	15:26:56	197.5023	347.5073	1180169.3000	1742.6822	4138.5274	1252.5941	1112.5743	2755.4555
4	15:27:36	132.5011	237.5034	1183122.4000	1331.3563	3283.1466	1007.5609	862.5446	2105.2659
5	15:28:16	92.5005	135.0011	1196124.7000	948.8040	2417.8507	812.5396	672.5271	1572.6484
X		226.5039	394.0126	1179541.5000	2136.8476	5108.4410	1523.6690	1382.1420	3192.7467
%RSD		58.596	66.037	0.953	57.981	54.795	51.661	54.667	52.582

Run	Time	209Bi	220Bkg
1	15:25:37	780870.6400	2.5000
2	15:26:16	780225.4500	5.0000
3	15:26:56	785133.3600	0.0000
4	15:27:36	787695.2800	2.5000
5	15:28:16	791857.1000	2.5000
X		785156.3700	2.5000
%RSD		0.618	70.711

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Run	Time	6Li	9Be	23Na	24Mg	25Mg	26Mg	27Al	39K
1	15:30:05	223934.7500	167.5017	TM 156264620.0000	TM 86824116.0000	T 10558092.0000	TM 11771173.0000	TM 241978300.0000	TM 66813979.0000
2	15:30:44	224191.5200	157.5015	TM 156090020.0000	TM 87781124.0000	TM 10873735.0000	TM 11933646.0000	TM 245005340.0000	TM 67837164.0000
3	15:31:24	223361.3300	144.1679	TM 157968630.0000	TM 88500959.0000	TM 10958965.0000	TM 11926247.0000	TM 245510710.0000	TM 68126484.0000
4	15:32:04	227626.1000	126.6676	TM 159911170.0000	T 87291873.0000	T 10792126.0000	T 11809237.0000	T 243632380.0000	T 67869807.0000
5	15:32:44	231045.8000	103.3340	T 153641410.0000	T 85215961.0000	T 10601973.0000	T 11455725.0000	T 235889430.0000	T 63980836.0000
X		226031.9000	139.8345	TM 156775170.0000	TM 87122806.0000	TM 10756978.0000	TM 11779206.0000	TM 242403230.0000	TM 66925654.0000
%RSD		1.444	18.239	TM 1.489	TM 1.416	TM 1.605	TM 1.650	TM 1.605	TM 2.572

Run	Time	44Ca	45Sc	47Ti	51V	52Cr	54Fe	55Mn	56Fe
1	15:30:05	TM 2904753.5000	423753.1100	35.0001	1030.0637	1535.1414	TM 8083539.2000	9039.9005	TM 135511710.0000
2	15:30:44	TM 2973709.8000	426720.1600	60.0002	802.5386	1647.6629	TM 8239913.8000	9638.0703	TM 137968200.0000
3	15:31:24	TM 2957222.7000	427231.6500	60.0002	727.5318	1710.1755	TM 8237129.8000	9452.8584	TM 137672290.0000
4	15:32:04	TM 2973492.1000	433849.5000	65.0003	750.0338	1610.1555	T 8038952.1000	9613.0414	T 134907340.0000
5	15:32:44	T 2841864.6000	433519.2100	75.0003	1080.0700	1682.6699	T 7901895.3000	9227.6061	T 131072600.0000
X		TM 2930208.5000	429014.7300	59.0002	878.0476	1637.1610	TM 8100286.1000	9394.2953	TM 135426430.0000
%RSD		TM 1.942	1.041	24.996	18.772	4.171	TM 1.764	2.735	TM 2.047

Run	Time	57Fe	59Co	60Ni	63Cu	65Cu	66Zn	75As	78Se
1	15:30:05	TM 3324152.4000	2790.4671	1807.6960	3150.5955	1577.6493	1392.6164	180.0019	810.8728
2	15:30:44	TM 3387256.6000	2950.5222	1867.7093	3410.6978	1540.1423	1445.1253	151.6681	799.2050
3	15:31:24	TM 3383009.4000	3040.5546	1820.1988	3330.6655	1655.1644	1277.5979	150.8347	839.2089
4	15:32:04	T 3298164.9000	3070.5656	1710.1755	3290.6496	1630.1594	1372.6130	160.8349	856.7107
5	15:32:44	T 3246607.5000	2918.0108	1600.1536	3280.6456	1467.6292	1357.6106	155.8348	839.2089
X		TM 3327838.1000	2954.0241	1761.1866	3292.6508	1574.1489	1369.1126	159.8349	829.0413
%RSD		TM 1.782	3.752	6.058	2.870	4.734	4.450	7.478	2.824

Run	Time	82Se	83Kr	89Y	94Mo	95Mo	96Mo	97Mo	98Mo
1	15:30:05	70.0003	69.1670	656475.1900	247.5037	97.5006	272.5045	62.5002	147.5013
2	15:30:44	85.8338	90.0005	657944.5600	177.5019	97.5006	290.0051	47.5001	117.5008
3	15:31:24	65.0003	81.6671	659173.7300	180.0019	130.0010	292.5051	57.5002	125.0009
4	15:32:04	75.0003	77.5004	668150.6000	187.5021	100.0006	322.5062	60.0002	130.0010
5	15:32:44	65.8336	104.1673	665552.0000	147.5013	107.5007	315.0060	52.5002	127.5010
X		72.3337	84.5004	661459.2100	188.0022	106.5007	298.5054	56.0002	129.5010
%RSD		11.788	15.758	0.771	19.462	12.922	6.768	10.751	8.569

Run	Time	103Rh	107Ag	108Mo O	109Ag	111Cd	115In	118Sn	121Sb
1	15:30:05	756638.3800	482.5140	15.0000	382.5088	41.2501	706902.7400	52.5002	787.5372
2	15:30:44	758846.2400	515.0159	10.0000	501.2651	57.5002	708853.4600	37.5001	905.0491
3	15:31:24	761196.7900	962.5556	5.0000	828.7912	65.0003	707247.7500	65.0003	735.0324
4	15:32:04	763258.1500	1032.5640	7.5000	1006.3108	37.5001	709945.8300	55.0002	820.0404
5	15:32:44	766326.4900	348.7573	20.0000	310.0058	32.5001	716497.5200	42.5001	817.5401
X		761253.2100	668.2814	11.5000	605.7763	46.7501	709889.4600	50.5002	813.0398
%RSD		0.495	46.085	52.355	49.414	29.630	0.548	21.408	7.599

Run	Time	135Ba	137Ba	159Tb	203Tl	205Tl	206Pb	207Pb	208Pb
1	15:30:05	42.5001	70.0003	1110298.6000	391.2592	960.0553	462.5128	455.0124	1057.5671
2	15:30:44	55.0002	102.5006	1113720.8000	403.7598	967.5562	445.0119	447.5120	1057.5671
3	15:31:24	40.0001	82.5004	1107670.9000	410.0101	945.0536	480.0138	412.5102	997.5597
4	15:32:04	35.0001	112.5008	1108987.5000	375.0084	836.2920	475.0135	372.5083	992.5591
5	15:32:44	52.5002	82.5004	1110967.0000	300.0054	721.2812	392.5092	355.0076	977.5573
X		45.0001	90.0005	1110329.0000	376.0086	886.0476	451.0123	408.5101	1016.5621
%RSD		18.840	19.044	0.205	11.846	12.001	7.845	10.850	3.753

Run	Time	209Bi	220Bkg
1	15:30:05	724306.1900	0.0000
2	15:30:44	719796.9900	2.5000
3	15:31:24	720799.5900	2.5000
4	15:32:04	719044.7700	2.5000
5	15:32:44	727317.2600	2.5000
X		722252.9600	2.0000
%RSD		0.481	55.902

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Run	Time	6Li	9Be	23Na	24Mg	25Mg	26Mg	27Al	39K
1	15:34:26	260661.3900	80693.8070	T 3536077.0000	T 1189552.0000	143230.4100	158014.0400	T 1437401.3000	T 1518090.8000
2	15:35:05	263008.4300	80916.7870	T 3543463.1000	1190825.0000	145377.1000	160480.5000	T 1444803.1000	T 1543881.6000
3	15:35:45	263135.6900	81146.5040	T 3594132.8000	T 1204456.5000	144802.2300	160505.9900	T 1451943.3000	T 1556456.9000
4	15:36:24	264524.4600	80870.5080	T 3596939.0000	1193844.8000	144954.8400	161071.7500	T 1432304.7000	T 1552076.9000
5	15:37:04	266298.8200	80646.6870	T 3558863.8000	1185310.6000	142431.9000	158763.0700	T 1423768.9000	T 1525796.6000
X		263525.7600	80854.8590	T 3565895.1000	T 1192797.8000	144159.3000	159767.0700	T 1438044.3000	T 1539260.6000
%RSD		0.789	0.246	T 0.794	T 0.604	0.876	0.818	T 0.759	T 1.083

Run	Time	44Ca	45Sc	47Ti	51V	52Cr	54Fe	55Mn	56Fe
1	15:34:26	62778.0780	464494.3000	42.5001	337792.7400	319304.8400	93822.7050	440173.5400	T 1652005.5000
2	15:35:05	63309.5760	473225.5700	47.5001	335648.6600	322894.2500	94990.8270	444899.8700	1687306.4000
3	15:35:45	64098.0690	467453.0500	35.0001	337870.8100	326103.1500	95524.3740	451174.0700	1691288.1000
4	15:36:24	63778.1290	470241.0300	37.5001	336541.0900	322250.0200	95081.8570	444067.1800	1664266.3000
5	15:37:04	62740.2950	473698.8500	42.5001	334321.8900	324094.5200	93754.4440	443603.4300	1656285.9000
X		63340.8290	469822.5600	41.0001	336435.0400	322929.3600	94634.8410	444783.6200	T 1670230.4000
%RSD		0.948	0.830	11.886	0.446	0.775	0.844	0.899	T 1.078

Run	Time	57Fe	59Co	60Ni	63Cu	65Cu	66Zn	75As	78Se
1	15:34:26	37740.2670	450831.2500	100343.0100	239847.6500	118671.5000	145107.4700	101511.2000	28021.1990
2	15:35:05	38066.7470	457495.1000	102845.7400	245774.1300	120144.8900	148755.9500	102458.5200	28387.4350
3	15:35:45	38302.8250	458809.4900	104556.8400	246461.4900	119886.2000	150797.1500	102553.0000	28550.4910
4	15:36:24	37895.9710	454901.2300	102792.5900	246639.1300	119148.2300	148837.3900	101552.5300	28522.8970
5	15:37:04	36944.2110	453423.8900	100714.9500	242253.2500	117647.1300	147857.6800	101070.8900	27733.5720
X		37790.0040	455092.1900	102250.6300	244195.1300	119099.5900	148271.1300	101829.2300	28243.1190
%RSD		1.368	0.700	1.691	1.233	0.840	1.395	0.635	1.255

Run	Time	82Se	83Kr	89Y	94Mo	95Mo	96Mo	97Mo	98Mo
1	15:34:26	11432.0030	64.1669	754152.4900	147.5013	12.5000	65.0003	12.5000	27.5000
2	15:35:05	11457.0370	72.5003	755840.6300	132.5011	27.5000	62.5002	12.5000	17.5000
3	15:35:45	11585.5480	69.1670	761959.4900	137.5011	22.5000	62.5002	7.5000	22.5000
4	15:36:24	11341.8800	80.8337	759611.4600	150.0014	10.0000	67.5003	17.5000	35.0001
5	15:37:04	11444.5200	74.1670	765757.5900	115.0008	15.0000	52.5002	25.0000	5.0000
X		11452.1970	72.1670	759464.3300	136.5011	17.5000	62.0002	15.0000	21.5000
%RSD		0.762	8.548	0.615	10.247	41.650	9.195	44.096	52.390

Run	Time	103Rh	107Ag	108Mo O	109Ag	111Cd	115In	118Sn	121Sb
1	15:34:26	897331.4900	312975.1200	4246.0815	300237.8600	65222.9970	808520.1000	75.0003	326511.1700
2	15:35:05	911322.0400	319380.1500	4273.5955	307046.8400	66091.0460	818081.6500	102.5006	330678.2500
3	15:35:45	909903.9100	326513.7700	4546.2398	312065.7100	66915.0830	824739.9400	75.0003	334634.0500
4	15:36:24	911132.9400	325547.0300	4538.7357	314010.5000	66025.5300	819773.9500	67.5003	333187.8000
5	15:37:04	918488.4800	314770.9000	4386.1540	301272.9800	65932.2960	826857.6700	92.5005	332339.9300
X		909635.7700	319837.3900	4398.1613	306926.7800	66037.3910	819594.6600	82.5004	331470.2400
%RSD		0.842	1.916	3.225	2.017	0.911	0.872	17.539	0.941

Run	Time	135Ba	137Ba	159Tb	203Tl	205Tl	206Pb	207Pb	208Pb
1	15:34:26	34154.8500	59720.7300	1273437.0000	506087.0600	1233878.3000	405249.7400	352180.3600	865117.2700
2	15:35:05	34498.7620	60559.2490	1279020.5000	513950.8700	1258627.2000	409093.3700	355598.5200	879458.2800
3	15:35:45	35081.1860	61561.5530	1279849.5000	520786.2700	1268945.5000	410237.6200	355854.0900	880378.2300
4	15:36:24	34704.6140	61015.0550	1287438.6000	516484.2800	1260178.8000	406645.3200	357708.5100	883859.4100
5	15:37:04	34207.5660	59818.9300	1285779.3000	506384.3300	1243310.6000	403245.9600	355155.2100	876131.1800
X		34529.3960	60535.1030	1281105.0000	512738.5600	1252988.1000	406894.4000	355299.3400	876988.8800
%RSD		1.103	1.296	0.439	1.252	1.127	0.696	0.562	0.819

Run	Time	209Bi	220Bkg
1	15:34:26	895930.8900	0.0000
2	15:35:05	906729.2400	0.0000
3	15:35:45	907677.0700	2.5000
4	15:36:24	907164.2300	0.0000
5	15:37:04	919440.3700	2.5000
X		907388.3600	1.0000
%RSD		0.917	136.931

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Run	Time	6Li	9Be	23Na	24Mg	25Mg	26Mg	27Al	39K
1	15:38:49	263497.6900	86.6671	32033.9520	3295.6516	370.0082	400.0096	8454.2863	40432.8520
2	15:39:29	264539.9400	93.3339	31712.7270	3745.8417	475.0135	570.0195	10066.0760	40058.5500
3	15:40:09	266752.1500	100.8339	32194.5700	3970.9459	525.0165	505.0153	11472.8920	40631.3130
4	15:40:48	271172.2600	85.0004	31035.1840	4015.9674	460.0127	585.0205	11783.3250	39520.9930
5	15:41:28	269489.8200	84.1671	29961.2640	3655.8017	390.0091	430.0111	10731.9060	39666.6830
x		267090.3700	90.0005	31387.5390	3736.8417	444.0120	498.0152	10501.6970	40062.0780
%RSD		1.212	7.829	2.908	7.733	14.320	16.507	12.615	1.191

Run	Time	44Ca	45Sc	47Ti	51V	52Cr	54Fe	55Mn	56Fe
1	15:38:49	352.5075	467322.2700	35.0001	1010.0612	1040.0649	2515.3796	292.5051	101011.0100
2	15:39:29	295.0052	469999.1900	20.0000	742.5331	965.0559	2340.3286	230.0032	103711.3700
3	15:40:09	350.0074	472203.7300	32.5001	462.5128	1077.5697	2432.8551	272.5045	103843.0000
4	15:40:48	355.0076	480387.1400	10.0000	505.0153	1110.0739	2505.3766	250.0038	105442.9000
5	15:41:28	297.5053	478573.3700	17.5000	605.0220	990.0588	2450.3602	192.5022	105189.7300
x		330.0066	473697.1400	23.0000	665.0289	1036.5646	2448.8600	247.5038	103839.6000
%RSD		9.356	1.180	45.730	33.224	5.783	2.863	15.632	1.696

Run	Time	57Fe	59Co	60Ni	63Cu	65Cu	66Zn	75As	78Se
1	15:38:49	755.0342	102.5006	172.5018	885.0470	277.5046	600.0216	76.6670	861.7112
2	15:39:29	860.0444	137.5011	197.5023	830.0413	260.0041	587.5207	77.5004	851.7102
3	15:40:09	842.5426	175.0018	120.0009	762.5349	325.0063	542.5177	55.0002	836.7087
4	15:40:48	927.5516	122.5009	182.5020	732.5322	322.5062	552.5183	58.3335	812.5396
5	15:41:28	892.5478	110.0007	150.0014	715.0307	332.5066	500.0150	65.0003	810.8728
x		855.5441	129.5011	164.5017	785.0372	303.5056	556.5187	66.5003	834.7085
%RSD		7.585	22.155	18.407	9.050	10.718	7.108	15.511	2.733

Run	Time	82Se	83Kr	89Y	94Mo	95Mo	96Mo	97Mo	98Mo
1	15:38:49	65.8336	60.8336	758157.5900	32.5001	7.5000	7.5000	7.5000	2.5000
2	15:39:29	77.5004	62.5002	769439.6800	17.5000	5.0000	12.5000	5.0000	7.5000
3	15:40:09	78.3337	83.3337	774642.6700	17.5000	2.5000	7.5000	2.5000	10.0000
4	15:40:48	86.6671	79.1670	780832.2800	20.0000	5.0000	7.5000	2.5000	5.0000
5	15:41:28	81.6671	60.8336	778076.5400	17.5000	15.0000	0.0000	0.0000	5.0000
x		78.0004	69.3336	772229.7500	21.0000	7.0000	7.0000	3.5000	6.0000
%RSD		9.867	15.864	1.158	31.044	68.698	63.888	81.441	47.507

Run	Time	103Rh	107Ag	108Mo O	109Ag	111Cd	115In	118Sn	121Sb
1	15:38:49	916365.2000	502.5152	7.5000	507.5155	16.2500	827436.0700	45.0001	1647.6629
2	15:39:29	920130.6900	572.5197	10.0000	470.0133	21.2500	831541.0800	20.0000	1147.5790
3	15:40:09	928385.3200	740.0329	10.0000	701.2795	13.7500	837605.6900	37.5001	1000.0600
4	15:40:48	934815.6000	830.0413	5.0000	852.5436	21.2500	839925.1300	30.0001	835.0418
5	15:41:28	938541.5700	318.7561	0.0000	276.2546	11.2500	845970.7200	25.0000	775.0360
x		927647.6800	592.7730	6.5000	561.5213	16.7500	836495.7400	31.5001	1081.0760
%RSD		1.015	33.910	64.358	39.511	26.699	0.865	31.547	32.249

Run	Time	135Ba	137Ba	159Tb	203Tl	205Tl	206Pb	207Pb	208Pb
1	15:38:49	5.0000	30.0001	1289713.4000	261.2541	720.0311	152.5014	185.0021	397.5095
2	15:39:29	12.5000	35.0001	1286968.6000	277.5046	683.7781	162.5016	142.5012	405.0098
3	15:40:09	5.0000	25.0000	1306900.3000	276.2546	640.0246	175.0018	180.0019	330.0065
4	15:40:48	15.0000	5.0000	1305847.9000	282.5048	711.2804	117.5008	87.5005	330.0065
5	15:41:28	17.5000	15.0000	1318089.3000	222.5030	576.2699	127.5010	127.5010	320.0061
x		11.0000	22.0000	1301503.9000	264.0042	666.2768	147.0013	144.5013	356.5077
%RSD		52.322	54.735	0.997	9.287	8.883	16.330	27.774	11.540

Run	Time	209Bi	220Bkg
1	15:38:49	919786.9100	0.0000
2	15:39:29	925114.8500	0.0000
3	15:40:09	930302.4900	0.0000
4	15:40:48	940724.6200	5.0000
5	15:41:28	938633.6300	0.0000
x		930912.5000	1.0000
%RSD		0.951	223.607

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User Pre-dilution: 1.00

Run	Time	6Li	9Be	23Na	24Mg	25Mg	26Mg	27Al	39K
1	15:43:09	210813.2300	231.6699	T 141249330.0000	T 80190700.0000	T 10052604.0000	TM 11254829.0000	TM 230577120.0000	TM 65547195.0000
2	15:43:49	211193.5100	232.5032	T 141185750.0000	T 81568673.0000	T 10137432.0000	TM 11368379.0000	TM 232266560.0000	TM 66959274.0000
3	15:44:29	209961.2800	223.3363	T 144416570.0000	T 81343522.0000	TM 10257928.0000	TM 11492859.0000	TM 231341870.0000	TM 68045498.0000
4	15:45:09	210913.2100	245.0036	T 141544450.0000	T 80576919.0000	TM 10319111.0000	TM 11539014.0000	TM 232849440.0000	TM 68843041.0000
5	15:45:48	209902.3300	224.1697	T 141086190.0000	T 79773987.0000	TM 10127443.0000	TM 11399666.0000	TM 234467930.0000	TM 67146674.0000
X		210556.7100	231.3366	T 141896460.0000	T 80690760.0000	TM 10178904.0000	TM 11410950.0000	TM 232300580.0000	TM 67308336.0000
%RSD		0.279	3.766	T 1.000	T 0.940	TM 1.056	TM 0.974	TM 0.642	TM 1.842

Run	Time	44Ca	45Sc	47Ti	51V	52Cr	54Fe	55Mn	56Fe
1	15:43:09	TM 2837858.0000	414867.3300	438003.5700	7568.4353	58998.1100	TM 8058738.6000	33557.4300	TM 135307510.0000
2	15:43:49	TM 2889930.5000	408210.3700	444401.8300	7067.9961	59929.7220	TM 8137359.1000	34438.5140	TM 137734630.0000
3	15:44:29	TM 2948185.6000	407298.5900	442739.2400	7223.1291	60284.7690	TM 8254288.5000	34488.7210	TM 139301860.0000
4	15:45:09	TM 2977690.7000	408834.8900	439786.3800	7135.5537	59836.5560	TM 8243649.6000	34425.9620	TM 139922830.0000
5	15:45:48	TM 2918322.0000	408998.9000	446958.2500	7320.7142	59139.1040	TM 8256419.2000	34358.1830	TM 139302490.0000
X		TM 2914397.4000	409642.0200	442377.8500	7263.1657	59637.6520	TM 8190091.0000	34253.7620	TM 138313860.0000
%RSD		TM 1.849	0.731	0.808	2.688	0.919	TM 1.082	1.145	TM 1.349

Run	Time	57Fe	59Co	60Ni	63Cu	65Cu	66Zn	75As	78Se
1	15:43:09	TM 3340651.9000	5171.6042	5596.8789	15942.7360	8146.4800	7198.1074	375.8418	749.2003
2	15:43:49	TM 3412337.1000	5416.7599	5681.9364	15825.0120	8524.3577	7153.0687	398.3429	703.3630
3	15:44:29	TM 3455227.2000	5281.6732	5709.4552	16180.6940	8491.8245	7140.5579	388.3424	770.8690
4	15:45:09	TM 3471510.8000	5094.0565	5822.0331	16160.6550	8096.4312	7240.6442	383.3422	711.6971
5	15:45:48	TM 3447179.0000	5251.6543	5576.8655	15759.8880	8544.3781	7123.0430	371.6750	782.5367
X		TM 3425381.2000	5243.1496	5677.4338	15973.7970	8360.6943	7171.0842	383.5088	743.5332
%RSD		TM 1.520	2.317	1.729	1.198	2.630	0.666	2.742	4.721

Run	Time	82Se	83Kr	89Y	94Mo	95Mo	96Mo	97Mo	98Mo
1	15:43:09	81.6671	86.6671	660170.7000	977628.0200	1778450.5000	1929790.6000	1090794.7000	T 3129786.6000
2	15:43:49	65.0003	83.3337	656545.4100	991766.4700	1802702.8000	1944259.2000	1096688.2000	T 3176212.1000
3	15:44:29	97.5006	72.5003	658719.8600	1000793.6000	1831908.3000	1957495.3000	1120036.7000	T 3216891.5000
4	15:45:09	69.1670	76.6670	661205.6100	997908.9700	1826511.1000	1961139.1000	1115658.6000	T 3206180.4000
5	15:45:48	73.3337	72.5003	662348.7600	990621.5400	1822944.4000	1959034.5000	1111595.6000	T 3202013.2000
X		77.3337	78.3337	659798.0700	991743.7200	1812503.4000	1950343.8000	1106954.8000	T 3186216.8000
%RSD		16.614	8.206	0.342	0.902	1.214	0.680	1.138	T 1.096

Run	Time	103Rh	107Ag	108Mo O	109Ag	111Cd	115In	118Sn	121Sb
1	15:43:09	758225.9000	177.5019	1430.1227	170.0017	1747.6832	720460.8400	277.5046	2160.2800
2	15:43:49	755518.2800	146.2513	1390.1159	170.0017	1697.6729	724676.4000	262.5041	2310.3202
3	15:44:29	760510.6900	146.2513	1550.1442	152.5014	1721.4278	725386.9000	252.5038	2095.2634
4	15:45:09	762241.0800	136.2511	1505.1359	127.5010	1606.4048	732797.5800	287.5050	2045.2510
5	15:45:48	759718.0500	111.2507	1425.1218	136.2511	1710.1755	726756.3500	257.5040	2092.7627
X		759242.8000	143.5013	1460.1281	151.2514	1696.6728	726015.6100	267.5043	2140.7755
%RSD		0.334	16.578	4.485	12.777	3.167	0.614	5.450	4.822

Run	Time	135Ba	137Ba	159Tb	203Tl	205Tl	206Pb	207Pb	208Pb
1	15:43:09	420.0106	835.0418	1188360.1000	175.0018	451.2622	8066.4021	6627.6345	16255.8400
2	15:43:49	460.0127	857.5441	1195757.1000	183.7520	447.5120	8419.2509	6685.1804	16566.4500
3	15:44:29	525.0165	825.0408	1206592.4000	141.2512	345.0071	8531.8653	6907.8619	17039.9040
4	15:45:09	450.0122	832.5416	1213017.7000	147.5013	337.5068	8496.8296	6922.8744	17162.6550
5	15:45:48	537.5173	785.0370	1214850.6000	125.0009	301.2555	8501.8347	6675.1724	16964.7510
X		478.5139	827.0411	1203715.6000	154.5015	376.5087	8403.2365	6763.7447	16797.9200
%RSD		10.564	3.195	0.945	15.757	18.211	2.295	2.073	2.241

Run	Time	209Bi	220Bkg
1	15:43:09	771976.4700	0.0000
2	15:43:49	770842.0800	2.5000
3	15:44:29	783195.6300	0.0000
4	15:45:09	784315.1800	0.0000
5	15:45:48	780758.3100	2.5000
X		778217.5300	1.0000
%RSD		0.817	136.931

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User Pre-dilution: 1.00

Run	Time	6Li	9Be	23Na	24Mg	25Mg	26Mg	27Al	39K
1	15:47:30	208146.6000	11870.1150	T 139878110.0000	T 79585897.0000	T 10008462.0000	TM 11311413.0000	TM 230982630.0000	TM 66357426.0000
2	15:48:09	210130.4700	12009.4810	T 141811400.0000	T 81305351.0000	TM 10187017.0000	TM 11496964.0000	TM 232800940.0000	TM 67870786.0000
3	15:48:49	206100.0000	12233.1390	T 143641240.0000	TM 81359915.0000	TM 10267727.0000	TM 11535911.0000	TM 235406720.0000	TM 68749253.0000
4	15:49:29	210205.6600	11895.1500	T 142415570.0000	T 80956524.0000	TM 10160863.0000	TM 11399141.0000	TM 231746380.0000	TM 68409141.0000
5	15:50:09	209951.0300	11742.4340	T 143372560.0000	T 80618207.0000	TM 10192319.0000	TM 11411074.0000	TM 232134920.0000	TM 67449725.0000
X		208906.7500	11950.0640	T 142223780.0000	TM 80765179.0000	TM 10163278.0000	TM 11430901.0000	TM 232614320.0000	TM 67767266.0000
%RSD		0.854	1.544	T 1.057	TM 0.896	TM 0.937	TM 0.771	TM 0.728	TM 1.375

Run	Time	44Ca	45Sc	47Ti	51V	52Cr	54Fe	55Mn	56Fe
1	15:47:30	TM 2876298.0000	408824.4000	435141.8400	68230.6870	115370.6300	TM 8079164.3000	112869.2300	TM 138069730.0000
2	15:48:09	TM 2942130.9000	408430.7800	445368.9600	68621.3750	117852.5000	TM 8243550.1000	115958.7100	TM 140092380.0000
3	15:48:49	TM 2972186.5000	411357.0800	445000.0100	68089.5390	119340.9600	TM 8303335.8000	117601.4900	TM 140941480.0000
4	15:49:29	TM 2946201.5000	408735.1700	439012.1100	67298.1500	118339.3300	TM 8210923.0000	115659.6000	TM 139323210.0000
5	15:50:09	TM 2958323.6000	412479.3100	443534.9200	68966.7080	118595.4300	TM 8250851.1000	113872.7400	TM 139594670.0000
X		TM 2939028.1000	409965.3500	441611.5700	68241.2920	117899.7700	TM 8217564.9000	115192.3500	TM 139604290.0000
%RSD		TM 1.258	0.447	0.999	0.922	1.283	TM 1.024	1.609	TM 0.756

Run	Time	57Fe	59Co	60Ni	63Cu	65Cu	66Zn	75As	78Se
1	15:47:30	TM 3404044.1000	82150.4360	22267.2100	53138.8860	25699.5670	17458.2680	8353.3513	2782.9646
2	15:48:09	TM 3479199.1000	82892.7320	22936.5220	53745.2560	26695.1900	17237.8100	8421.7534	2812.1411
3	15:48:49	TM 3454809.7000	83680.5470	22700.8780	54537.8810	26893.3250	17596.0580	8661.1653	2775.4621
4	15:49:29	TM 3455241.6000	82774.0610	22505.3480	53128.8220	26517.1220	17713.8070	8508.5081	2722.9448
5	15:50:09	TM 3458610.6000	83579.5410	22585.5650	53171.5940	26466.9630	17839.0740	8492.6586	2726.2792
X		TM 3450381.0000	83015.4630	22599.1050	53544.4880	26454.4340	17569.0030	8487.4873	2763.9584
%RSD		TM 0.805	0.758	1.091	1.145	1.716	1.324	1.356	1.392

Run	Time	82Se	83Kr	89Y	94Mo	95Mo	96Mo	97Mo	98Mo
1	15:47:30	950.8876	61.6669	658687.4400	980856.3900	1788168.3000	1925860.4000	1100761.5000	T 3166087.1000
2	15:48:09	936.7193	90.8338	664346.2500	1000908.8000	1822590.5000	1971200.5000	1110045.5000	T 3212398.7000
3	15:48:49	912.5500	80.8337	657906.7400	1009157.9000	1853316.0000	1990591.4000	1126357.1000	T 3264310.0000
4	15:49:29	901.7155	81.6671	664638.2100	992179.0200	1816740.6000	1965481.0000	1110529.0000	T 3211877.8000
5	15:50:09	928.3850	93.3339	671223.4100	997614.1000	1828336.5000	1956805.5000	1112414.9000	T 3219707.6000
X		926.0515	81.6671	663360.4100	996143.2400	1821830.4000	1961987.8000	1112021.6000	T 3214876.2000
%RSD		2.099	15.255	0.812	1.057	1.285	1.208	0.827	T 1.085

Run	Time	103Rh	107Ag	108Mo O	109Ag	111Cd	115In	118Sn	121Sb
1	15:47:30	753344.0400	49780.7450	2160.2800	48323.4540	12698.4180	728188.6500	247.5037	32626.2440
2	15:48:09	758059.2100	51006.8760	2180.2852	49007.4310	12903.7330	731903.9300	212.5027	33444.4780
3	15:48:49	763796.8100	51824.3970	2110.2672	49700.2660	13100.2890	731754.0900	232.5032	33703.0160
4	15:49:29	763553.4500	50998.0720	2217.7951	49076.5860	12778.5400	732476.0700	295.0052	32947.5040
5	15:50:09	768687.2700	50955.3120	2147.7767	49491.5300	12950.0540	738254.0800	250.0038	32651.3420
X		761488.1600	50913.0800	2163.2808	49119.8540	12886.2070	732515.3600	247.5037	33074.5160
%RSD		0.776	1.433	1.838	1.079	1.209	0.495	12.309	1.456

Run	Time	135Ba	137Ba	159Tb	203Tl	205Tl	206Pb	207Pb	208Pb
1	15:47:30	7017.9539	12173.8860	1214732.6000	46973.2670	112496.7400	46335.9640	39191.9440	94401.6890
2	15:48:09	6932.8827	12709.6850	1222802.5000	48339.7990	115080.4100	46662.7800	39621.4680	95946.6840
3	15:48:49	7198.1074	12622.0520	1228002.9000	48206.5300	115902.9400	47218.3970	40241.9310	97218.8010
4	15:49:29	7185.5966	12526.9080	1227247.9000	48172.5850	115684.9500	47537.7040	39591.3260	98888.2730
5	15:50:09	6975.4182	12474.3300	1234192.6000	47875.8820	115515.1100	47037.3770	39219.5740	96262.7990
X		7061.9918	12501.3720	1225395.7000	47913.6130	114936.0300	46958.4450	39573.2490	96543.6490
%RSD		1.733	1.632	0.589	1.153	1.215	1.001	1.072	1.716

Run	Time	209Bi	220Bkg
1	15:47:30	778868.1100	0.0000
2	15:48:09	782391.3300	0.0000
3	15:48:49	786024.2600	0.0000
4	15:49:29	788537.0800	2.5000
5	15:50:09	790766.7400	2.5000
X		785317.5100	1.0000
%RSD		0.606	136.931

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User Pre-dilution: 1.00

Run	Time	6Li	9Be	23Na	24Mg	25Mg	26Mg	27Al	39K
1	15:51:50	228651.0900	↹1697126.2000	↹76886289.0000	↹43645842.0000	↹5372370.8000	↹5980163.3000	↹123620710.0000	↹34253272.0000
2	15:52:30	229388.4500	↹1730504.7000	↹78657683.0000	↹44024597.0000	↹5494926.3000	↹6133257.3000	↹125141000.0000	↹34180644.0000
3	15:53:10	229428.7000	↹1754015.3000	↹80393203.0000	↹44706095.0000	↹5495896.7000	↹6150535.5000	↹125494290.0000	↹34709373.0000
4	15:53:49	230239.7800	↹1721549.2000	↹78067091.0000	↹43316005.0000	↹5464606.9000	↹5993694.7000	↹125385920.0000	↹34849020.0000
5	15:54:29	233939.0300	↹1726939.4000	↹77670680.0000	↹43637173.0000	↹5453198.7000	↹6014719.8000	↹124768450.0000	↹34620530.0000
x		230329.4100	↹1726026.9000	↹78334989.0000	↹43865942.0000	↹5456199.9000	↹6054474.1000	↹124882080.0000	↹34522568.0000
%RSD		0.909	↹1.180	↹1.683	↹1.214	↹0.925	↹1.338	↹0.607	↹0.845

Run	Time	44Ca	45Sc	47Ti	51V	52Cr	54Fe	55Mn	56Fe
1	15:51:50	↹1502394.7000	430522.1800	242.5035	↹8295610.4000	↹7876526.6000	↹4281033.1000	↹10584735.0000	↹70712144.0000
2	15:52:30	1511065.8000	431571.9400	200.0024	↹8339057.8000	↹7870789.2000	↹4324114.6000	↹10683783.0000	↹70573656.0000
3	15:53:10	1527833.1000	433806.0800	150.0014	↹8365112.9000	↹7880200.2000	↹4323219.7000	↹10678764.0000	↹70993995.0000
4	15:53:49	1513064.5000	432278.4300	140.0012	↹8317340.7000	↹7860552.7000	↹4270237.9000	↹10693321.0000	↹70528225.0000
5	15:54:29	↹1514363.2000	438035.1600	122.5009	↹8310940.1000	↹7838084.7000	↹4266203.9000	↹10551352.0000	↹70313972.0000
x		↹1513744.2000	433242.7600	171.0019	↹8325612.4000	↹7865230.7000	↹4292961.8000	↹10638391.0000	↹70624398.0000
%RSD		↹0.605	0.677	28.809	↹0.325	↹0.215	↹0.665	↹0.616	↹0.356

Run	Time	57Fe	59Co	60Ni	63Cu	65Cu	66Zn	75As	78Se
1	15:51:50	1736443.9000	↹10631563.0000	2345207.9000	↹5275751.8000	↹2540000.0000	1550838.9000	1138204.0000	31060.2770
2	15:52:30	1730907.2000	↹10788296.0000	↹2299007.1000	↹5285259.1000	↹2566531.8000	1549695.0000	1147779.4000	31516.1500
3	15:53:10	1742633.6000	↹10828891.0000	↹2328142.7000	↹5384960.6000	↹2613652.6000	1572897.0000	1153081.1000	31642.4610
4	15:53:49	↹1733142.3000	↹10658122.0000	2357831.6000	↹5265478.3000	↹2570540.4000	1546509.0000	1142354.3000	31525.3520
5	15:54:29	1713213.4000	↹10691182.0000	2362213.8000	↹5303726.4000	↹2553850.8000	1551278.0000	1135064.2000	31135.5570
x		↹1731268.1000	↹10719611.0000	↹2338480.6000	↹5303035.2000	↹2568915.1000	1554243.6000	1143296.6000	31375.9590
%RSD		↹0.636	↹0.794	↹1.100	↹0.904	↹1.079	0.682	0.634	0.829

Run	Time	82Se	83Kr	89Y	94Mo	95Mo	96Mo	97Mo	98Mo
1	15:51:50	12788.1380	76.6670	682452.7700	735.0324	1147.5790	1302.6018	672.5271	1862.7082
2	15:52:30	12628.7290	69.1670	681469.4800	532.5170	837.5421	1035.0643	502.5152	1267.5964
3	15:53:10	12980.9360	79.1670	687528.0700	487.5143	612.5225	787.5372	397.5095	1135.0773
4	15:53:49	12889.9610	72.5003	691247.7000	362.5079	607.5221	717.5309	362.5079	835.0418
5	15:54:29	12699.6700	75.0003	697153.0200	410.0101	492.5146	605.0220	307.5057	820.0404
x		12797.4870	74.5003	687970.2100	505.5163	739.5361	889.5512	448.5131	1184.0928
%RSD		1.107	5.162	0.942	28.547	35.176	31.433	32.113	35.936

Run	Time	103Rh	107Ag	108Mo O	109Ag	111Cd	115In	118Sn	121Sb
1	15:51:50	796761.9500	726173.7000	98496.1700	697359.2500	1530932.1000	749696.0400	95.0005	↹4220401.8000
2	15:52:30	805423.1500	736249.0600	98341.8640	706627.0100	1532471.6000	746821.8600	87.5005	↹4215963.9000
3	15:53:10	794399.0400	746797.3000	98916.1000	715044.0300	1527743.7000	745301.9000	97.5006	↹4243300.2000
4	15:53:49	798392.4700	749417.5900	98283.6830	716418.6600	1518566.0000	748336.6200	95.0005	↹4184679.0000
5	15:54:29	811491.6700	724017.6700	99280.3940	692390.7400	1521072.5000	752014.0900	115.0008	↹4212319.0000
x		801293.6600	736531.0600	98663.6420	705567.9400	1526157.2000	748434.1000	98.0006	↹4215332.8000
%RSD		0.877	1.571	0.430	1.503	0.399	0.346	10.425	↹0.497

Run	Time	135Ba	137Ba	159Tb	203Tl	205Tl	206Pb	207Pb	208Pb
1	15:51:50	821796.8900	1492435.8000	1219041.6000	↹6012896.2000	↹14711444.0000	↹4864574.6000	↹4204678.4000	↹10567027.0000
2	15:52:30	827317.6300	1478658.0000	1208769.1000	↹6051573.7000	↹14733896.0000	↹4851929.8000	↹4147167.9000	↹10515194.0000
3	15:53:10	835030.4700	1482686.0000	1206040.4000	↹6089056.5000	↹14780410.0000	↹4881007.3000	↹4195554.8000	↹10530604.0000
4	15:53:49	827785.8900	1484275.1000	1223032.9000	↹6111400.6000	↹14936299.0000	↹4886447.7000	↹4186338.2000	↹10568604.0000
5	15:54:29	823828.5600	1470669.5000	1231188.1000	↹5982684.0000	↹14632192.0000	↹4857333.1000	↹4142819.7000	↹10423765.0000
x		827151.8900	1481744.9000	1217614.4000	↹6049522.2000	↹14758848.0000	↹4868258.5000	↹4175311.8000	↹10521039.0000
%RSD		0.611	0.538	0.849	↹0.875	↹0.764	↹0.307	↹0.682	↹0.562

Run	Time	209Bi	220Bkg
1	15:51:50	804414.8900	5.0000
2	15:52:30	804848.9500	2.5000
3	15:53:10	800418.7100	10.0000
4	15:53:49	807011.3300	2.5000
5	15:54:29	820942.2500	2.5000
x		807527.2300	4.5000
%RSD		0.974	72.436

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User Pre-dilution: 1.00

Run	Time	6Li	9Be	23Na	24Mg	25Mg	26Mg	27Al	39K
1	15:56:11	254487.3900	487.5143	61760.5170	12514.3900	1870.2098	1910.2189	37207.8810	54404.5130
2	15:56:50	255474.4100	400.0096	55783.5860	10711.8800	1270.0968	1520.1386	32555.9690	52238.2180
3	15:57:30	254265.7800	316.6727	49252.6200	9019.8789	1080.0700	1190.0850	25361.0320	49174.6620
4	15:58:10	259111.6600	270.8377	44118.9810	7488.3630	880.0465	945.0536	20422.4940	46896.5870
5	15:58:49	261223.5800	240.0035	39834.9830	5046.5276	570.0195	705.0298	15181.3160	44257.2110
X		256912.5600	343.0076	50150.1370	8956.2078	1134.0885	1254.1052	26145.7380	49394.2380
%RSD		1.206	29.387	17.557	32.161	42.881	37.873	34.051	8.215

Run	Time	44Ca	45Sc	47Ti	51V	52Cr	54Fe	55Mn	56Fe
1	15:56:11	660.0261	454649.2700	70.0003	3043.0555	2595.4041	3433.2071	2162.7806	117216.1200
2	15:56:50	497.5149	458553.4600	32.5001	2275.3106	2320.3230	3368.1805	1750.1838	115788.8700
3	15:57:30	540.0175	461126.0000	47.5001	1722.6780	2027.7467	3330.6655	1452.6266	112970.5900
4	15:58:10	420.0106	466427.9400	47.5001	1422.6214	1807.6960	2988.0356	1295.1006	110708.0200
5	15:58:49	362.5079	465742.4000	35.0001	1917.7206	1602.6541	3055.5601	977.5573	107985.1400
X		496.0154	461299.8100	46.5001	2076.2772	2070.7648	3235.1298	1527.6498	112933.7500
%RSD		23.084	1.072	31.943	29.998	19.130	6.170	29.552	3.311

Run	Time	57Fe	59Co	60Ni	63Cu	65Cu	66Zn	75As	78Se
1	15:56:11	1157.5804	2092.7627	580.0202	2225.2971	780.0365	635.0242	384.1755	899.2152
2	15:56:50	1172.5825	1645.1624	450.0122	2032.7479	822.5406	680.0278	330.8399	858.3775
3	15:57:30	1127.5763	1360.1110	432.5112	1665.1664	580.0202	570.0195	265.8376	892.5478
4	15:58:10	947.5539	1215.0886	322.5062	1627.6589	525.0165	597.5214	217.5028	861.7112
5	15:58:49	912.5500	802.5386	290.0051	1395.1168	432.5112	522.5164	191.6689	881.7133
X		1063.5686	1423.1327	415.0110	1789.1974	628.0250	601.0219	278.0049	878.7130
%RSD		11.619	33.883	27.721	18.669	26.654	10.030	28.622	2.070

Run	Time	82Se	83Kr	89Y	94Mo	95Mo	96Mo	97Mo	98Mo
1	15:56:11	90.8338	67.5003	748844.3300	140.0012	202.5025	202.5025	115.0008	397.5095
2	15:56:50	80.0004	89.1671	759343.6300	125.0009	215.0028	230.0032	130.0010	305.0056
3	15:57:30	87.5005	80.0004	765246.1600	95.0005	207.5026	170.0017	90.0005	275.0045
4	15:58:10	90.0005	74.1670	770049.8700	100.0006	140.0012	155.0014	70.0003	250.0038
5	15:58:49	82.5004	64.1669	766050.2400	65.0003	172.5018	125.0009	100.0006	262.5041
X		86.1671	75.0003	761906.8400	105.0007	187.5022	176.5020	101.0006	298.0055
%RSD		5.496	13.333	1.082	27.562	16.573	23.180	22.794	19.883

Run	Time	103Rh	107Ag	108Mo O	109Ag	111Cd	115In	118Sn	121Sb
1	15:56:11	908866.8700	508.7655	32.5001	475.0135	326.2564	821458.3300	32.5001	2820.4772
2	15:56:50	911563.9700	416.2604	10.0000	390.0091	248.7537	829339.5600	37.5001	2132.7729
3	15:57:30	923669.4300	371.2583	15.0000	357.5077	196.2523	835432.9700	27.5000	1805.1955
4	15:58:10	921380.6400	343.7571	22.5000	332.5066	175.0018	833503.3500	32.5001	1340.1077
5	15:58:49	926744.3600	202.5025	12.5000	172.5018	126.2510	832839.1000	35.0001	1250.0938
X		918445.0500	368.5088	18.5000	345.5078	214.5030	830514.6600	33.0001	1869.7294
%RSD		0.850	30.379	49.283	32.033	35.614	0.665	11.237	34.264

Run	Time	135Ba	137Ba	159Tb	203Tl	205Tl	206Pb	207Pb	208Pb
1	15:56:11	182.5020	317.5061	1327348.3000	2140.2748	5045.2768	1207.5875	980.0576	2530.3841
2	15:56:50	162.5016	222.5030	1323753.1000	1503.8857	3555.7584	935.0525	815.0399	1982.7358
3	15:57:30	112.5008	205.0025	1333653.6000	1136.3275	2717.9432	785.0370	730.0320	1715.1765
4	15:58:10	92.5005	155.0014	1338659.1000	896.2982	2114.0181	670.0269	590.0209	1382.6147
5	15:58:49	65.0003	115.0008	1337311.2000	657.5259	1602.6541	547.5180	462.5128	1077.5697
X		123.0010	203.0028	1332145.0000	1266.8624	3007.1301	829.0444	715.5326	1737.6962
%RSD		39.632	37.793	0.482	45.767	44.951	30.812	27.939	32.180

Run	Time	209Bi	220Bkg
1	15:56:11	943918.5600	2.5000
2	15:56:50	948447.0400	0.0000
3	15:57:30	952238.8600	2.5000
4	15:58:10	948747.2600	0.0000
5	15:58:49	947927.6300	0.0000
X		948255.8700	1.0000
%RSD		0.312	136.931

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User Pre-dilution: 1.00

Run	Time	6Li	9Be	23Na	24Mg	25Mg	26Mg	27Al	39K
1	16:00:31	267540.1500	120.0009	35633.5220	2840.4840	420.0106	455.0124	6997.9370	43513.3090
2	16:01:11	266595.5900	131.6677	36602.7090	2760.4571	380.0087	405.0098	7308.2032	43264.5180
3	16:01:51	271189.4700	130.8344	34523.8660	2575.3979	325.0063	455.0124	6792.7674	42809.6780
4	16:02:30	271322.8800	115.8341	33768.2790	2585.4010	265.0042	310.0058	6254.8465	42920.2450
5	16:03:10	271089.6400	93.3339	32543.4210	2020.2449	230.0032	350.0074	5696.9466	42083.4940
X		269547.5400	118.3342	34614.3600	2556.3970	324.0066	395.0096	6610.1401	42918.2490
%RSD		0.849	13.147	4.569	12.539	24.239	16.285	9.661	1.267

Run	Time	44Ca	45Sc	47Ti	51V	52Cr	54Fe	55Mn	56Fe
1	16:00:31	342.5070	475188.9500	52.5002	1430.1227	1325.1053	3125.5860	420.0106	103402.5700
2	16:01:11	415.0103	477311.5000	42.5001	1060.0674	1335.1069	3268.1407	470.0133	105858.1100
3	16:01:51	405.0098	479777.2200	55.0002	765.0351	1295.1006	3218.1213	515.0159	105468.2200
4	16:02:30	380.0087	478742.6900	47.5001	610.0223	1282.5987	3263.1388	377.5086	105225.1700
5	16:03:10	260.0041	483125.0700	62.5002	727.5318	1265.0960	3108.0795	370.0082	106579.7200
X		360.5080	478829.0900	52.0002	918.5559	1300.6015	3196.6133	430.5113	105306.7600
%RSD		17.409	0.617	14.582	35.983	2.244	2.366	14.357	1.122

Run	Time	57Fe	59Co	60Ni	63Cu	65Cu	66Zn	75As	78Se
1	16:00:31	822.5406	392.5092	222.5030	1047.5658	285.0049	632.5240	117.5008	854.2104
2	16:01:11	722.5313	382.5088	227.5031	1065.0681	370.0082	617.5229	83.3337	877.5462
3	16:01:51	767.5354	390.0091	175.0018	967.5562	360.0078	560.0188	90.0005	867.5452
4	16:02:30	717.5309	302.5055	185.0021	937.5527	312.5059	637.5244	78.3337	862.5446
5	16:03:10	825.0408	250.0038	190.0022	797.5382	332.5066	562.5190	79.1670	887.5473
X		771.0358	343.5073	200.0024	963.0562	332.0067	602.0218	89.6672	869.8787
%RSD		6.738	18.702	11.759	11.089	10.453	6.301	18.100	1.494

Run	Time	82Se	83Kr	89Y	94Mo	95Mo	96Mo	97Mo	98Mo
1	16:00:31	75.0003	57.5002	773717.3500	70.0003	80.0004	57.5002	50.0001	172.5018
2	16:01:11	68.3336	73.3337	781196.6700	57.5002	95.0005	125.0009	90.0005	110.0007
3	16:01:51	80.0004	80.0004	784737.2800	72.5003	65.0003	77.5004	47.5001	115.0008
4	16:02:30	70.8336	75.8337	783649.1900	72.5003	100.0006	87.5005	50.0001	107.5007
5	16:03:10	77.5004	75.8337	791575.9200	57.5002	112.5008	122.5009	55.0002	142.5012
X		74.3337	72.5003	782975.2800	66.0003	90.5005	94.0006	58.5002	129.5010
%RSD		6.411	12.028	0.824	11.858	20.337	31.107	30.459	21.471

Run	Time	103Rh	107Ag	108Mo O	109Ag	111Cd	115In	118Sn	121Sb
1	16:00:31	940343.7700	131.2510	7.5000	117.5008	66.2503	841050.6000	105.0007	760.0347
2	16:01:11	937975.3300	161.2516	5.0000	132.5011	75.0003	855109.0900	152.5014	660.0261
3	16:01:51	953564.6300	200.0024	10.0000	178.7519	55.0002	853249.7100	167.5017	682.5280
4	16:02:30	948137.0700	228.7531	7.5000	266.2543	68.7503	856302.8400	112.5008	587.5207
5	16:03:10	955274.8800	155.0014	12.5000	125.0009	53.7502	851586.8300	132.5011	545.0178
X		947059.1300	175.2519	8.5000	164.0018	63.7502	851459.8100	134.0011	647.0255
%RSD		0.815	22.131	33.535	37.771	14.342	0.715	19.639	12.965

Run	Time	135Ba	137Ba	159Tb	203Tl	205Tl	206Pb	207Pb	208Pb
1	16:00:31	37.5001	55.0002	1359053.7000	413.7603	948.8040	372.5083	225.0030	627.5236
2	16:01:11	25.0000	50.0001	1359746.8000	335.0067	832.5416	305.0056	222.5030	552.5183
3	16:01:51	15.0000	52.5002	1367353.9000	313.7559	723.7814	260.0041	165.0016	610.0223
4	16:02:30	30.0001	65.0003	1352987.7000	278.7547	663.7764	222.5030	185.0021	545.0178
5	16:03:10	32.5001	40.0001	1366235.8000	238.7534	618.7730	207.5026	150.0014	457.5126
X		28.0001	52.5002	1361075.6000	316.0062	757.5353	273.5047	189.5022	558.5189
%RSD		30.540	17.169	0.430	20.798	17.636	24.482	17.759	11.955

Run	Time	209Bi	220Bkg
1	16:00:31	955049.9000	2.5000
2	16:01:11	961407.4000	0.0000
3	16:01:51	970903.2500	0.0000
4	16:02:30	964067.5000	7.5000
5	16:03:10	970831.8500	0.0000
X		964451.9800	2.0000
%RSD		0.696	162.980

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User Pre-dilution: 1.00

Run	Time	6Li	9Be	23Na	24Mg	25Mg	26Mg	27Al	39K
1	16:04:53	267416.2600	1611.8225	T 1747238.6000	T 964472.2600	116813.0200	130950.8700	115859.8500	812508.9900
2	16:05:32	272118.1900	1588.4847	T 1778230.8000	974809.7700	120281.8400	134547.4800	114057.7400	824156.2000
3	16:06:12	273402.5500	1686.8374	T 1801309.4000	971684.4100	121397.8500	135157.2300	116577.2500	834206.2300
4	16:06:52	274988.4800	1635.1604	T 1804710.6000	983979.3900	122569.8200	133927.6200	112468.8700	834421.2400
5	16:07:31	271879.7600	1570.9814	T 1716190.3000	938812.1600	115352.8900	130828.9700	111029.7600	794544.4800
X		271961.0500	1618.6573	T 1769535.9000	T 966751.6000	119283.0800	133082.4300	113998.7000	819967.4300
%RSD		1.039	2.789	T 2.127	T 1.770	2.578	1.539	2.023	2.051

Run	Time	44Ca	45Sc	47Ti	51V	52Cr	54Fe	55Mn	56Fe
1	16:04:53	31002.5620	480825.1000	50.0001	34380.7760	14297.2540	39249.7150	9325.2147	723214.7400
2	16:05:32	31752.8800	485682.4900	35.0001	35151.4820	14179.5530	39370.2820	9255.1366	723552.2300
3	16:06:12	32317.5440	487914.9000	35.0001	35159.0130	14419.9650	38913.1420	9485.3953	737335.3400
4	16:06:52	31220.8750	484656.5200	65.0003	33715.5670	14362.3660	38985.9820	9152.5234	719475.9600
5	16:07:31	31015.1090	487084.6300	40.0001	34353.1630	14149.5020	37815.6070	9210.0867	713661.4700
X		31461.7940	485232.7300	45.0001	34552.0000	14281.7280	38866.9460	9285.6713	723447.9500
%RSD		1.802	0.570	28.328	1.770	0.812	1.587	1.382	1.206

Run	Time	57Fe	59Co	60Ni	63Cu	65Cu	66Zn	75As	78Se
1	16:04:53	15396.7100	9039.9005	2227.7977	10576.7080	4876.4264	3555.7584	1010.8946	2040.2497
2	16:05:32	15772.4120	9545.4638	2212.7937	10611.7520	5264.1622	3625.7886	1044.2321	1987.7370
3	16:06:12	16088.0140	9205.0812	2250.3038	10321.3880	5041.5246	3610.7821	1051.7330	2039.4162
4	16:06:52	15714.8030	9072.4359	2280.3119	10546.6700	4983.9900	3463.2195	1006.7275	2127.7716
5	16:07:31	15246.4340	8854.7018	2082.7602	10326.3940	4871.4234	3290.6496	1009.2278	2115.2684
X		15643.6750	9143.5167	2210.7935	10476.5820	5007.5053	3509.2396	1024.5630	2062.0886
%RSD		2.115	2.813	3.436	1.349	3.209	3.927	2.108	2.834

Run	Time	82Se	83Kr	89Y	94Mo	95Mo	96Mo	97Mo	98Mo
1	16:04:53	567.5193	80.8337	778377.8200	52.5002	52.5002	42.5001	35.0001	87.5005
2	16:05:32	630.0238	70.8336	785345.8000	30.0001	50.0001	65.0003	40.0001	75.0003
3	16:06:12	566.6859	69.1670	785540.4200	57.5002	65.0003	70.0003	35.0001	97.5006
4	16:06:52	575.0198	77.5004	786332.6700	45.0001	45.0001	82.5004	35.0001	105.0007
5	16:07:31	571.6863	65.8336	789304.9200	45.0001	67.5003	87.5005	37.5001	90.0005
X		582.1870	72.8337	784980.3300	46.0001	56.0002	69.5003	36.5001	91.0005
%RSD		4.629	8.470	0.512	22.605	17.462	25.359	6.126	12.378

Run	Time	103Rh	107Ag	108Mo O	109Ag	111Cd	115In	118Sn	121Sb
1	16:04:53	937690.8200	6723.9616	92.5005	6254.8465	1257.5949	850029.2000	132.5011	7010.4475
2	16:05:32	941582.6400	6721.4596	77.5004	6463.7558	1303.8520	855628.5700	137.5011	7298.1944
3	16:06:12	949661.9200	6785.2613	132.5011	6756.4879	1356.3604	861759.6600	117.5008	7062.9919
4	16:06:52	951349.0700	6824.0429	82.5004	6891.5985	1308.8528	853799.4700	142.5012	6925.3765
5	16:07:31	947997.4400	6601.3636	92.5005	6262.3521	1246.3432	851075.8700	120.0009	7165.5794
X		945656.3800	6731.2178	95.5006	6525.8082	1294.6006	854458.5600	130.0010	7092.5179
%RSD		0.612	1.255	22.701	4.426	3.411	0.543	8.383	2.033

Run	Time	135Ba	137Ba	159Tb	203Tl	205Tl	206Pb	207Pb	208Pb
1	16:04:53	7035.4686	12088.7620	1363069.7000	5269.1653	12729.7150	4316.1174	3685.8149	8929.7819
2	16:05:32	7180.5923	12469.3220	1354542.6000	5429.2680	12613.2880	4406.1645	3695.8194	9102.4686
3	16:06:12	7090.5152	12529.4120	1358296.3000	5399.2485	12951.3060	4271.0943	3998.4590	9347.7399
4	16:06:52	7037.9707	12812.3420	1360574.5000	5297.9336	13166.6430	4201.0587	3805.8689	8949.8034
5	16:07:31	6965.4098	11743.2680	1366669.0000	5255.4066	12181.3970	3883.4046	3693.3183	9150.0206
X		7061.9913	12328.6210	1360630.4000	5330.2044	12728.4700	4215.5679	3775.8561	9095.9629
%RSD		1.130	3.379	0.339	1.481	2.924	4.745	3.548	1.867

Run	Time	209Bi	220Bkg
1	16:04:53	956643.0400	10.0000
2	16:05:32	960369.8700	0.0000
3	16:06:12	968879.2600	2.5000
4	16:06:52	969707.8300	0.0000
5	16:07:31	965120.8500	0.0000
X		964144.1700	2.5000
%RSD		0.579	173.205

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User Pre-dilution: 1.00

Run	Time	6Li	9Be	23Na	24Mg	25Mg	26Mg	27Al	39K
1	16:09:13	253493.6100	628.3570	147330.9700	T 1861484.4000	226938.5600	253137.1900	T 43327931.0000	T 2598240.6000
2	16:09:53	253498.7600	618.3563	145346.5800	T 1892120.2000	228695.6200	254430.7000	T 43548479.0000	T 2675424.6000
3	16:10:32	252597.8500	654.1923	146733.0600	T 1898450.4000	233100.1700	260689.7500	T 44575402.0000	T 2682088.8000
4	16:11:12	252516.2700	633.3574	143688.1900	T 1872656.9000	227328.9800	255002.7900	T 42847074.0000	T 2656373.4000
5	16:11:52	252143.5700	590.0209	140761.3700	T 1819321.8000	221058.6400	252544.6100	T 42862289.0000	T 2566538.7000
X		252850.0100	624.8568	144772.0300	T 1868806.7000	227424.3900	255161.0100	T 43432235.0000	T 2635733.2000
%RSD		0.243	3.754	1.827	T 1.679	1.899	1.271	T 1.627	T 1.929

Run	Time	44Ca	45Sc	47Ti	51V	52Cr	54Fe	55Mn	56Fe
1	16:09:13	127317.7100	474308.3500	38345.5200	108656.2800	85195.7840	1495184.4000	T 1923757.8000	T 25320100.0000
2	16:09:53	128619.9800	483085.3600	44259.7240	112433.3900	87264.5260	1515051.7000	1998796.7000	T 25835294.0000
3	16:10:32	132594.0400	479566.8600	38659.4660	113082.0800	87383.2610	1541103.9000	2024349.2000	T 26121869.0000
4	16:11:12	130509.0200	476705.7600	37471.5580	109117.2500	85887.8340	1491097.4000	T 1931613.3000	T 25410401.0000
5	16:11:52	127873.6300	479409.4300	40251.9790	108734.8000	85319.5410	1482505.1000	T 1918113.0000	T 25360457.0000
X		129382.8800	478615.1500	39797.6490	110404.7600	86210.1890	1504988.5000	T 1959326.0000	T 25609625.0000
%RSD		1.671	0.691	6.758	1.963	1.218	1.558	T 2.490	T 1.379

Run	Time	57Fe	59Co	60Ni	63Cu	65Cu	66Zn	75As	78Se
1	16:09:13	601330.3700	33800.9110	14893.2970	517839.6300	250009.8700	131753.3700	2859.6572	805.8723
2	16:09:53	608718.9400	34892.8980	15258.9570	526431.1600	255902.2400	133607.5400	2925.5134	860.8778
3	16:10:32	614710.6900	34646.8750	15511.9240	531854.8200	257319.9100	134115.6000	2899.6711	774.2026
4	16:11:12	602250.9100	33843.5840	15727.3270	523164.7800	253526.2500	131981.9400	2787.9663	792.5377
5	16:11:52	595224.5300	34232.6680	15286.5080	510995.9500	248771.1100	131898.1300	2805.4722	817.5401
X		604447.0900	34283.3870	15335.6030	522057.2700	253105.8800	132671.3200	2855.6560	810.2061
%RSD		1.236	1.408	2.032	1.534	1.453	0.832	2.067	4.023

Run	Time	82Se	83Kr	89Y	94Mo	95Mo	96Mo	97Mo	98Mo
1	16:09:13	95.0005	86.6671	798658.7700	2627.9143	692.5288	1232.5912	457.5126	1067.5684
2	16:09:53	115.8341	80.8337	803579.8000	2692.9350	670.0269	1387.6155	460.0127	1247.5934
3	16:10:32	120.8342	80.8337	807264.1500	2682.9318	657.5259	1270.0968	437.5115	1295.1006
4	16:11:12	82.5004	88.3338	805206.1100	2810.4738	632.5240	1105.0733	425.0108	1055.0668
5	16:11:52	107.5007	72.5003	804615.4400	2577.8987	710.0303	1092.5716	422.5107	1125.0759
X		104.3340	81.8337	803864.8500	2678.4307	672.5272	1217.5897	440.5117	1158.0810
%RSD		14.990	7.600	0.399	3.251	4.484	10.074	4.001	9.328

Run	Time	103Rh	107Ag	108Mo O	109Ag	111Cd	115In	118Sn	121Sb
1	16:09:13	903325.1100	312.5059	62.5002	310.0058	351.2574	819595.0800	547.5180	532.5170
2	16:09:53	910176.3900	308.7557	50.0001	303.7555	348.7573	826821.8600	577.5200	595.0212
3	16:10:32	908102.3800	340.0069	45.0001	315.0060	336.2568	826268.2900	512.5158	547.5180
4	16:11:12	912570.7400	423.7608	40.0001	358.7577	367.5081	825943.3200	612.5225	472.5134
5	16:11:52	912935.0900	305.0056	32.5001	247.5037	330.0065	829854.7600	545.0178	450.0122
X		909421.9400	338.0070	46.0001	307.0057	346.7572	825696.6600	559.0188	519.5164
%RSD		0.432	14.758	24.487	12.929	4.193	0.454	6.750	11.263

Run	Time	135Ba	137Ba	159Tb	203Tl	205Tl	206Pb	207Pb	208Pb
1	16:09:13	46677.8640	82178.2070	1325081.5000	523.7665	1271.3470	207383.7700	172726.7100	427248.7400
2	16:09:53	47796.6790	83420.4590	1320258.3000	517.5161	1222.5897	209029.1200	173150.3700	434586.4500
3	16:10:32	49071.5570	85645.3580	1333487.4000	567.5193	1272.5972	211164.4500	175335.3500	434333.7700
4	16:11:12	47766.5070	83814.3820	1326538.2000	537.5173	1208.8377	206807.2000	172134.6500	428466.4300
5	16:11:52	46509.4260	81122.9430	1324359.0000	490.0144	1197.5860	203804.5700	168157.1600	417594.8800
X		47564.4070	83236.2700	1325944.9000	527.2667	1234.5915	207637.8200	172300.8500	428446.0500
%RSD		2.171	2.060	0.363	5.381	2.856	1.315	1.516	1.615

Run	Time	209Bi	220Bkg
1	16:09:13	924355.9000	0.0000
2	16:09:53	931769.9000	0.0000
3	16:10:32	922330.0500	2.5000
4	16:11:12	924212.4800	0.0000
5	16:11:52	927926.9900	0.0000
X		926119.0700	0.5000
%RSD		0.405	223.607

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User Pre-dilution: 1.00

Run	Time	6Li	9Be	23Na	24Mg	25Mg	26Mg	27Al	39K
1	16:13:33	250612.5700	540.8509	115408.6500	T 1520404.3000	183595.4000	209685.3000	T 43713948.0000	T 2072134.1000
2	16:14:13	253084.8000	582.5204	118968.1900	T 1541710.0000	186422.1300	206661.1400	T 44052214.0000	T 2097272.3000
3	16:14:53	257226.2500	533.3504	119087.3700	T 1541946.2000	188845.7900	209090.6300	T 43928402.0000	T 2118570.1000
4	16:15:32	255343.8300	574.1865	115512.5800	T 1518609.2000	184198.4900	202470.1300	T 43206586.0000	T 2126037.5000
5	16:16:12	255358.4400	535.0172	116485.9900	T 1487949.8000	181168.1400	204852.3000	T 43069503.0000	T 2050974.4000
X		254325.1800	553.1851	117092.5600	T 1522123.9000	184845.9900	206551.9000	T 43594131.0000	T 2092997.7000
%RSD		0.999	4.217	1.551	T 1.454	1.577	1.449	T 1.001	T 1.504

Run	Time	44Ca	45Sc	47Ti	51V	52Cr	54Fe	55Mn	56Fe
1	16:13:33	75692.2040	476212.4700	41508.1190	107068.4300	72297.2590	1375014.2000	T 1255694.6000	T 23386707.0000
2	16:14:13	76560.0790	476695.1800	42832.2940	106050.5400	72239.2590	1384109.1000	1275328.7000	T 23615143.0000
3	16:14:53	77291.7870	480904.4900	41995.5520	105660.6300	72791.5340	1386607.9000	1285524.1000	T 23932193.0000
4	16:15:32	74226.6100	479943.9200	40457.9730	105850.5200	71906.3990	1364128.9000	1254105.5000	T 23297981.0000
5	16:16:12	73777.6490	482921.2500	40686.5820	103351.9500	70295.2400	1330895.4000	1230470.2000	T 22885724.0000
X		75509.6660	479335.4600	41496.1040	105596.4100	71905.9380	1368151.1000	T 1260224.6000	T 23423550.0000
%RSD		1.982	0.594	2.339	1.295	1.327	1.653	T 1.689	T 1.656

Run	Time	57Fe	59Co	60Ni	63Cu	65Cu	66Zn	75As	78Se
1	16:13:33	551507.5900	24144.9280	12857.4110	575956.1900	280882.7500	125805.0000	2467.8654	833.3750
2	16:14:13	555860.5100	24465.8620	12584.4950	587217.8400	282325.2900	125315.2000	2455.3617	796.7048
3	16:14:53	558567.8500	24731.6450	12644.5860	588324.4500	285053.3400	128373.7300	2559.5597	854.2104
4	16:15:32	550744.5200	24438.2810	12559.4570	576370.9500	281112.8200	126122.2400	2513.7124	831.7082
5	16:16:12	539647.6600	23723.7210	12371.6770	565329.2300	274427.9400	123792.7000	2396.1778	828.3745
X		551265.6300	24300.8870	12603.5250	578639.7300	280760.4300	125881.7700	2478.5354	828.8746
%RSD		1.314	1.579	1.387	1.632	1.392	1.315	2.490	2.491

Run	Time	82Se	83Kr	89Y	94Mo	95Mo	96Mo	97Mo	98Mo
1	16:13:33	96.6672	74.1670	795872.6900	3768.3518	407.5100	1190.0850	250.0038	760.0347
2	16:14:13	103.3340	92.5005	802840.9200	3838.3838	407.5100	1182.5839	242.5035	757.5344
3	16:14:53	132.5011	86.6671	807368.5800	5454.2844	482.5140	1217.5889	295.0052	790.0375
4	16:15:32	120.8342	74.1670	804475.3300	4171.0436	482.5140	962.5556	287.5050	692.5288
5	16:16:12	95.8339	64.1669	804151.1700	3763.3496	505.0153	1172.5825	270.0044	685.0282
X		109.8341	78.3337	802941.7400	4199.0826	457.0126	1145.0792	269.0044	737.0327
%RSD		14.726	14.352	0.533	17.181	10.090	9.029	8.482	6.234

Run	Time	103Rh	107Ag	108Mo O	109Ag	111Cd	115In	118Sn	121Sb
1	16:13:33	910835.4000	350.0074	67.5003	336.2568	315.0060	821328.9600	2080.2596	472.5134
2	16:14:13	914470.5500	346.2572	35.0001	328.7565	316.2560	827744.5700	2320.3230	367.5081
3	16:14:53	913071.3800	395.0094	52.5002	410.0101	347.5073	830736.4600	2235.2998	437.5115
4	16:15:32	919406.9600	423.7608	45.0001	406.2599	311.2558	831948.9300	2107.7665	417.5105
5	16:16:12	912209.1800	366.2581	37.5001	297.5053	282.5048	833657.7000	2072.7577	340.0069
X		913998.6900	376.2586	47.5001	355.7577	314.5060	829083.3200	2163.2813	407.0101
%RSD		0.361	8.711	27.600	14.052	7.332	0.584	5.065	13.106

Run	Time	135Ba	137Ba	159Tb	203Tl	205Tl	206Pb	207Pb	208Pb
1	16:13:33	34820.0950	60481.1850	1313837.2000	446.2620	1192.5853	97264.3280	79969.3740	199087.5800
2	16:14:13	34882.8560	60551.6940	1311791.9000	467.5131	1235.0915	97967.4930	80151.1070	201927.1900
3	16:14:53	35169.0550	62296.9880	1317696.3000	506.2654	1205.0871	100654.2300	80375.7550	202698.0700
4	16:15:32	34651.8960	60516.4390	1328106.0000	522.5164	1140.0780	98116.7330	78987.5760	199955.4900
5	16:16:12	34240.1990	59738.3560	1309738.4000	482.5140	1223.8399	94907.3850	77253.9380	195133.1800
X		34752.8200	60716.9320	1316234.0000	485.0142	1199.3364	97782.0330	79347.5500	199760.3000
%RSD		0.984	1.558	0.551	6.247	3.083	2.104	1.619	1.486

Run	Time	209Bi	220Bkg
1	16:13:33	917830.2900	5.0000
2	16:14:13	918470.3900	2.5000
3	16:14:53	924018.9200	0.0000
4	16:15:32	923709.8100	0.0000
5	16:16:12	922888.3300	0.0000
X		921383.5500	1.5000
%RSD		0.324	149.071

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User Pre-dilution: 1.00

Run	Time	6Li	9Be	23Na	24Mg	25Mg	26Mg	27Al	39K
1	16:17:54	251009.2500	318.3394	84059.3310	935465.3000	115986.5900	128025.9400	T 29514302.0000	T 1505289.5000
2	16:18:33	258195.5400	362.5079	79918.8930	954458.8400	115134.9100	130630.9000	T 29587074.0000	T 1549077.4000
3	16:19:13	254477.9400	353.3408	78162.3500	941261.7500	115961.2500	127569.0100	T 29447025.0000	T 1546981.5000
4	16:19:53	257422.1600	362.5079	78505.5540	925203.9800	113923.4300	127807.6300	T 28723839.0000	T 1540229.4000
5	16:20:32	255986.4400	351.6741	75848.6170	924451.9900	112311.7700	126741.5300	T 28919900.0000	T 1480189.0000
X		255418.2700	349.6740	79298.9490	936168.3700	114663.5900	128155.0000	T 29238428.0000	T 1524353.4000
%RSD		1.114	5.212	3.829	1.328	1.361	1.145	T 1.333	T 1.992

Run	Time	44Ca	45Sc	47Ti	51V	52Cr	54Fe	55Mn	56Fe
1	16:17:54	42447.8340	474152.3300	37157.6570	67250.2650	49740.5050	1053862.0000	T 2296121.3000	T 18305515.0000
2	16:18:33	43163.9990	479212.3100	35839.4020	68129.8670	49395.9650	1052997.2000	T 2286291.5000	T 18375335.0000
3	16:19:13	43535.9260	477561.4800	35038.5070	68649.1020	49690.2070	1072610.7000	T 2302350.1000	T 18451157.0000
4	16:19:53	43292.1610	479876.4400	36113.0800	66695.8360	48797.4540	1042014.2000	T 2242787.5000	T 18065876.0000
5	16:20:32	42412.6560	482397.1600	34149.8300	67116.6950	47701.1340	1037335.9000	T 2228689.3000	T 17916340.0000
X		42970.5150	478639.9500	35659.6950	67568.3530	49065.0530	1051764.0000	T 2271248.0000	T 18222845.0000
%RSD		1.189	0.638	3.181	1.182	1.732	1.296	T 1.466	T 1.230

Run	Time	57Fe	59Co	60Ni	63Cu	65Cu	66Zn	75As	78Se
1	16:17:54	428069.2800	30756.6540	7618.4809	136211.6900	67575.3800	88328.1440	1831.0345	767.5354
2	16:18:33	429213.4400	31386.4960	7548.4172	138946.2900	67925.7100	90165.1610	1951.8952	790.8709
3	16:19:13	433370.5200	31499.4210	8001.3394	138155.8100	68172.7150	90448.2030	1868.5428	789.2040
4	16:19:53	420088.1200	30972.4510	7405.7893	136407.3500	66814.2790	88247.2940	1801.0279	820.8738
5	16:20:32	413862.9400	30164.4950	7630.9923	135075.9300	65521.5760	86857.8100	1813.5306	770.8690
X		424920.8600	30955.9030	7641.0038	136959.4100	67201.9320	88809.3220	1853.2062	787.8706
%RSD		1.843	1.730	2.885	1.142	1.592	1.678	3.278	2.694

Run	Time	82Se	83Kr	89Y	94Mo	95Mo	96Mo	97Mo	98Mo
1	16:17:54	107.5007	67.5003	789154.0900	4133.5249	467.5131	1247.5934	315.0060	742.5331
2	16:18:33	85.8338	80.8337	792728.1100	4178.5474	482.5140	1195.0857	262.5041	717.5309
3	16:19:13	106.6674	68.3336	792560.7600	4838.9045	455.0124	1212.5882	325.0063	827.5411
4	16:19:53	115.0008	80.0004	796105.9800	4361.1409	382.5088	1115.0746	312.5059	755.0342
5	16:20:32	87.5005	67.5003	784323.4100	3905.9152	442.5118	1172.5825	275.0045	765.0351
X		100.5006	72.8337	790974.4700	4283.6066	446.0120	1188.5849	298.0054	761.5349
%RSD		12.987	9.525	0.564	8.176	8.626	4.156	9.217	5.378

Run	Time	103Rh	107Ag	108Mo O	109Ag	111Cd	115In	118Sn	121Sb
1	16:17:54	914392.6500	201.2524	45.0001	190.0022	227.5031	824040.5600	727.5318	362.5079
2	16:18:33	918878.1300	186.2521	62.5002	183.7520	258.7540	831050.5800	770.0356	405.0098
3	16:19:13	920784.8700	220.0029	62.5002	203.7525	257.5040	829849.2500	652.5256	407.5100
4	16:19:53	919184.2900	257.5040	40.0001	255.0039	233.7533	826978.8500	625.0234	375.0084
5	16:20:32	917213.8900	211.2527	32.5001	148.7513	230.0032	828581.9700	690.0286	360.0078
X		918090.7700	215.2528	48.5001	196.2524	241.5035	828100.2500	693.0290	382.0088
%RSD		0.264	12.424	27.902	19.668	6.354	0.329	8.350	5.988

Run	Time	135Ba	137Ba	159Tb	203Tl	205Tl	206Pb	207Pb	208Pb
1	16:17:54	28541.2930	50427.1130	1306781.1000	376.2585	872.5457	66065.8480	54062.2970	135408.7700
2	16:18:33	28787.1360	50681.1480	1322445.3000	385.0089	916.3004	65194.0220	54744.2270	135302.0500
3	16:19:13	29243.7220	50578.0240	1318496.8000	398.7595	927.5516	66186.8020	54708.9970	136813.9400
4	16:19:53	28689.3000	49494.0440	1317777.8000	406.2599	895.0481	64387.7900	53257.1370	133709.1500
5	16:20:32	27492.7760	48161.2690	1321836.6000	380.0087	853.7937	62669.7670	52228.1560	131131.1700
X		28550.8450	49868.3200	1317467.5000	389.2591	893.0479	64900.8460	53800.1630	134473.0200
%RSD		2.266	2.134	0.479	3.280	3.404	2.225	1.983	1.612

Run	Time	209Bi	220Bkg
1	16:17:54	920784.8700	0.0000
2	16:18:33	921813.5700	0.0000
3	16:19:13	923967.4000	0.0000
4	16:19:53	917316.8600	7.5000
5	16:20:32	926054.9100	0.0000
X		921987.5200	1.5000
%RSD		0.359	223.607

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User Pre-dilution: 1.00

Run	Time	6Li	9Be	23Na	24Mg	25Mg	26Mg	27Al	39K
1	16:22:14	256241.6000	392.5092	90129.7810	1057929.8000	130432.8400	142640.4200	τ32879433.0000	τ1686163.7000
2	16:22:54	253990.9100	380.0087	82243.8500	1079484.2000	131001.6600	145987.6400	τ33336627.0000	τ1712870.7000
3	16:23:34	255060.3500	409.1767	85453.4020	1086175.7000	133312.8800	150878.6100	τ33854954.0000	τ1744773.4000
4	16:24:14	255689.1800	407.5100	83122.5040	1083436.1000	135441.8000	150288.0800	τ33769547.0000	τ1752968.7000
5	16:24:53	256399.6900	398.3429	81430.9250	1094416.6000	133693.9100	149967.3800	τ34006567.0000	τ1711703.5000
X		255476.3500	397.5095	84476.0920	1080288.5000	132776.6200	147952.4200	τ33569426.0000	τ1721696.0000
%RSD		0.385	2.998	4.144	1.263	1.547	2.393	τ1.368	τ1.578

Run	Time	44Ca	45Sc	47Ti	51V	52Cr	54Fe	55Mn	56Fe
1	16:22:14	49335.6090	474207.8600	34149.8300	77904.9570	59098.8200	1285155.7000	τ2815778.5000	τ22098799.0000
2	16:22:54	49584.5800	475593.5800	34925.5350	80196.5410	58665.7760	τ1321890.1000	τ2872212.8000	τ22137962.0000
3	16:23:34	49448.7770	475432.2600	36361.6580	79515.0570	59554.5470	1313825.6000	τ2877120.8000	τ22697462.0000
4	16:24:14	51249.6080	480003.4500	34400.8590	79593.2990	59886.9160	1306472.9000	τ2907875.3000	τ22590729.0000
5	16:24:53	51038.3170	480485.0500	36964.3000	79714.4490	58899.9190	1323391.9000	τ2877635.2000	τ22706346.0000
X		50131.3780	477144.4400	35360.4360	79384.8610	59221.1960	τ1310147.2000	τ2870124.5000	τ22446260.0000
%RSD		1.858	0.605	3.507	1.094	0.836	τ1.185	τ1.167	τ1.350

Run	Time	57Fe	59Co	60Ni	63Cu	65Cu	66Zn	75As	78Se
1	16:22:14	518464.2300	39639.0520	8934.7873	311079.8500	154109.4300	126208.5300	2316.1552	759.2013
2	16:22:54	524446.7200	39862.6140	8989.8464	319948.8500	155902.3200	126244.0700	2151.1109	777.5363
3	16:23:34	532315.3700	40606.1910	9247.6283	325531.4300	158187.2800	128117.3300	2321.9901	776.7029
4	16:24:14	525428.2400	40033.4300	9037.3978	320141.0200	157978.3700	129285.1600	2324.4908	748.3669
5	16:24:53	527482.1000	40626.2890	9054.9168	321075.9800	157812.7800	127046.1200	2222.7964	806.7057
X		525627.3300	40153.5150	9052.9153	319555.4300	156798.0300	127380.2400	2267.3087	773.7026
%RSD		0.956	1.108	1.308	1.644	1.122	1.035	3.426	2.865

Run	Time	82Se	83Kr	89Y	94Mo	95Mo	96Mo	97Mo	98Mo
1	16:22:14	97.5006	83.3337	783958.8800	4311.1149	557.5187	1452.6266	357.5077	857.5441
2	16:22:54	91.6672	69.1670	795606.4900	4618.7796	580.0202	1460.1279	402.5097	950.0542
3	16:23:34	95.0005	88.3338	791896.8700	4631.2866	565.0192	1410.1193	382.5088	892.5478
4	16:24:14	111.6674	69.1670	787410.1300	4638.7907	565.0192	1402.6180	342.5070	985.0582
5	16:24:53	90.0005	93.3339	797470.1200	4313.6161	555.0185	1345.1086	392.5092	905.0491
X		97.1672	80.6671	791268.5000	4502.7176	564.5191	1414.1201	375.5085	918.0507
%RSD		8.863	13.732	0.709	3.862	1.727	3.262	6.631	5.445

Run	Time	103Rh	107Ag	108Mo O	109Ag	111Cd	115In	118Sn	121Sb
1	16:22:14	905056.1900	255.0039	37.5001	257.5040	296.2553	824522.4100	700.0294	257.5040
2	16:22:54	915230.0300	215.0028	52.5002	241.2535	340.0069	828314.7700	672.5271	297.5053
3	16:23:34	914556.7800	313.7559	60.0002	273.7545	283.7548	824404.0100	690.0286	280.0047
4	16:24:14	911925.5100	301.2555	52.5002	266.2543	287.5050	830667.5700	682.5280	312.5059
5	16:24:53	909876.1000	236.2534	52.5002	216.2528	276.2546	830166.1000	607.5221	342.5070
X		911328.9200	264.2543	51.0002	251.0038	296.7553	827614.9700	670.5270	298.0054
%RSD		0.451	15.960	16.110	9.118	8.501	0.363	5.464	10.816

Run	Time	135Ba	137Ba	159Tb	203Tl	205Tl	206Pb	207Pb	208Pb
1	16:22:14	33778.3200	58383.8060	1304734.5000	407.5100	1000.0600	75583.7270	62289.4320	156444.8400
2	16:22:54	34184.9730	59181.9060	1314262.0000	400.0096	1036.3144	76090.8100	63193.7020	160689.4700
3	16:23:34	34636.8330	60725.4520	1320325.2000	425.0108	985.0582	77465.8920	64002.3380	160750.6300
4	16:24:14	33898.8080	59418.5820	1318147.5000	456.2625	1048.8160	77443.1820	64483.5260	161214.4700
5	16:24:53	33695.4860	59632.6020	1320834.8000	442.5118	1076.3195	77339.7280	64523.8360	161856.7400
X		34038.8840	59468.4700	1315660.8000	426.2609	1029.3136	76784.6680	63698.5670	160191.2300
%RSD		1.123	1.424	0.504	5.510	3.587	1.152	1.496	1.340

Run	Time	209Bi	220Bkg
1	16:22:14	916867.4500	2.5000
2	16:22:54	920828.0200	5.0000
3	16:23:34	925187.2600	2.5000
4	16:24:14	928031.4700	2.5000
5	16:24:53	928719.6800	2.5000
X		923926.7800	3.0000
%RSD		0.543	37.268

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User Pre-dilution: 1.00

Run	Time	6Li	9Be	23Na	24Mg	25Mg	26Mg	27Al	39K
1	16:26:35	255646.2300	315.8393	93923.8350	T3579238.0000	431325.9300	479515.2700	T23278606.0000	T1221591.1000
2	16:27:15	257036.3600	285.0049	94282.8550	T3598961.1000	439064.7800	483257.4200	T23410207.0000	T1231945.1000
3	16:27:54	256827.5600	315.0060	96050.3690	T3618211.8000	435031.2800	488966.4200	T23443502.0000	T1235772.9000
4	16:28:34	257590.5800	313.3392	94576.1510	T3556538.7000	432446.8400	485115.8700	T23033324.0000	1260090.6000
5	16:29:14	257160.0900	295.8386	92316.0180	T3499022.8000	431620.6100	479531.1400	T23149074.0000	T1190215.5000
X		256852.1600	305.0056	94229.8460	T3570394.5000	433897.8900	483277.2300	T23262942.0000	T1227923.0000
%RSD		0.284	4.552	1.423	T1.289	0.746	0.827	T0.745	T2.066

Run	Time	44Ca	45Sc	47Ti	51V	52Cr	54Fe	55Mn	56Fe
1	16:26:35	226720.2300	469271.0800	29615.0300	53060.8910	41143.8190	761677.9100	T2021902.6000	T13141332.0000
2	16:27:15	230368.2600	475748.3000	30315.0400	52751.4360	40802.1450	751110.2800	T1997460.2000	T13173677.0000
3	16:27:54	228212.6500	473047.1000	29534.7450	53209.3330	40809.6820	756250.4300	T2024627.7000	T13259353.0000
4	16:28:34	229029.6100	475862.0300	28937.6560	51307.4630	39782.2310	749524.0500	T1999226.0000	T13037551.0000
5	16:29:14	226666.3000	475909.6300	28942.6740	52278.4700	40322.3180	748041.8400	T1978078.8000	T13102732.0000
X		228199.4100	473967.6300	29469.0290	52521.5190	40572.0390	753320.9000	T2004259.0000	T13142929.0000
%RSD		0.691	0.610	1.935	1.459	1.306	0.744	T0.961	T0.628

Run	Time	57Fe	59Co	60Ni	63Cu	65Cu	66Zn	75As	78Se
1	16:26:35	305055.6800	15782.4310	7140.5579	49003.6590	23834.0350	104192.3200	1782.6907	850.8768
2	16:27:15	309507.9200	15742.3550	6972.9161	49114.3080	24245.2190	103389.9100	1729.3461	805.0389
3	16:27:54	306302.6900	15299.0310	7123.0430	49843.6190	24711.5860	104159.4100	1657.6649	771.7024
4	16:28:34	303705.1700	15301.5350	6887.8454	49038.8650	24152.4500	102744.5100	1691.0049	801.7052
5	16:29:14	307205.0100	15256.4530	6755.2369	48920.6740	23726.2280	102225.6800	1677.6689	829.2079
X		306355.2900	15476.3610	6975.9198	49184.2250	24133.9030	103342.3700	1707.6751	811.7062
%RSD		0.718	1.694	2.325	0.763	1.608	0.838	2.895	3.688

Run	Time	82Se	83Kr	89Y	94Mo	95Mo	96Mo	97Mo	98Mo
1	16:26:35	90.8338	69.1670	778328.5200	3360.6775	370.0082	927.5516	242.5035	607.5221
2	16:27:15	100.8339	72.5003	773865.1700	3320.6615	405.0098	925.0513	245.0036	607.5221
3	16:27:54	100.0006	76.6670	777969.7300	3643.2962	355.0076	980.0576	185.0021	542.5177
4	16:28:34	108.3340	80.8337	779224.2000	3418.2009	375.0084	892.5478	250.0038	575.0198
5	16:29:14	100.0006	73.3337	778243.6200	3638.2941	425.0108	932.5522	250.0038	530.0169
X		100.0006	74.5003	777526.2500	3476.2260	386.0090	931.5521	234.5033	572.5197
%RSD		6.208	5.951	0.270	4.436	7.351	3.366	11.881	6.275

Run	Time	103Rh	107Ag	108Mo O	109Ag	111Cd	115In	118Sn	121Sb
1	16:26:35	909684.2500	522.5164	77.5004	483.7640	660.0261	818398.0700	1987.7370	310.0058
2	16:27:15	902955.6000	508.7655	102.5006	472.5134	640.0246	819476.7400	2145.2761	320.0061
3	16:27:54	911664.0900	551.2682	72.5003	496.2648	688.7785	821268.4100	2167.7819	327.5064
4	16:28:34	907935.5900	506.2654	55.0002	501.2651	631.2739	821312.4500	2015.2436	372.5083
5	16:29:14	913725.0400	482.5140	80.0004	445.0119	635.0242	824684.8700	1972.7335	310.0058
X		909192.9100	514.2659	77.5004	479.7638	651.0255	821028.1100	2057.7544	328.0065
%RSD		0.451	4.900	21.997	4.673	3.662	0.291	4.461	7.910

Run	Time	135Ba	137Ba	159Tb	203Tl	205Tl	206Pb	207Pb	208Pb
1	16:26:35	29344.0740	50970.4040	1304286.9000	325.0063	787.5372	162264.5500	133848.8700	334457.1600
2	16:27:15	28734.4550	50806.9100	1296387.3000	317.5061	786.2871	161036.0700	134326.4600	337959.2900
3	16:27:54	29436.9000	51101.2010	1313106.9000	340.0069	788.7873	163618.1400	136308.2500	336936.6000
4	16:28:34	28960.2340	50738.9980	1308421.0000	337.5068	820.0404	161408.1600	134758.3500	333200.8000
5	16:29:14	29206.0900	50127.8160	1320965.9000	287.5050	773.7859	159787.3700	131123.5500	328894.7000
X		29136.3510	50749.0660	1308633.6000	321.5062	791.2876	161622.8600	134073.1000	334289.7100
%RSD		0.987	0.739	0.706	6.566	2.169	0.883	1.409	1.066

Run	Time	209Bi	220Bkg
1	16:26:35	913982.3400	2.5000
2	16:27:15	917049.7100	0.0000
3	16:27:54	916736.6700	0.0000
4	16:28:34	917585.4000	2.5000
5	16:29:14	913229.9200	0.0000
X		915716.8100	1.0000
%RSD		0.215	136.931

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User Pre-dilution: 1.00

Run	Time	6Li	9Be	23Na	24Mg	25Mg	26Mg	27Al	39K
1	16:30:56	259597.2600	353.3408	110322.9700	T4820353.5000	584530.9500	653523.6900	T28090583.0000	T1370763.4000
2	16:31:36	261171.1500	339.1736	112808.4100	T4816952.2000	593738.9700	648616.6600	T28163131.0000	T1365642.9000
3	16:32:15	259769.1600	323.3396	112370.0500	T4826187.8000	584697.0200	661735.2800	T28432226.0000	T1407184.2000
4	16:32:55	262703.1900	305.8390	112484.0700	T4750389.6000	575322.0600	645066.3300	T27581713.0000	T1399127.0000
5	16:33:35	263917.3300	335.0067	106164.4700	T4649199.4000	564909.6600	628558.6400	T27263160.0000	T1312856.6000
X		261431.6200	331.3399	110829.9900	T4772616.5000	580639.7300	647500.1200	T27906163.0000	T1371114.8000
%RSD		0.715	5.384	2.514	T1.583	1.884	1.899	T1.696	T2.707

Run	Time	44Ca	45Sc	47Ti	51V	52Cr	54Fe	55Mn	56Fe
1	16:30:56	295997.6400	479763.9900	34152.3400	61518.7380	47075.0890	882007.7800	T2211560.2000	T15307955.0000
2	16:31:36	297945.2400	478139.5000	34252.7510	62586.6460	47065.0330	883679.2200	T2220110.9000	T15474331.0000
3	16:32:15	300403.6800	478343.2000	33559.9400	61407.9250	47032.3490	896048.8700	T2236572.6000	T15387193.0000
4	16:32:55	293519.7700	480885.9700	32766.7930	61161.1200	45818.1130	872057.8300	T2187785.2000	T15089373.0000
5	16:33:35	289140.6000	480469.1800	33228.6170	60947.0610	46036.8130	853111.5900	T2153429.7000	T14871957.0000
X		295401.3900	479520.3700	33592.0880	61524.2980	46605.4790	877381.0600	T2201891.7000	T15226162.0000
%RSD		1.462	0.258	1.862	1.030	1.339	1.826	T1.467	T1.603

Run	Time	57Fe	59Co	60Ni	63Cu	65Cu	66Zn	75As	78Se
1	16:30:56	358371.0900	17508.3730	8699.5385	51833.2010	25754.7370	112793.2100	1893.5484	775.8695
2	16:31:36	357035.5500	17901.7080	8281.6131	52834.4600	25814.9230	114247.8200	1978.5682	805.8723
3	16:32:15	358952.8400	18345.1710	8927.2792	53244.5570	26125.8900	115940.9700	1936.0582	789.2040
4	16:32:55	351930.1200	17380.6060	8264.0957	52487.2760	25193.0240	112514.4800	1941.8929	759.2013
5	16:33:35	346861.6100	17809.0090	8509.3423	51586.6780	25177.9780	110961.3600	1829.3674	816.7067
X		354630.2400	17788.9730	8536.3738	52397.2340	25613.3100	113291.5700	1915.8870	789.3707
%RSD		1.452	2.118	3.309	1.313	1.621	1.664	2.975	2.911

Run	Time	82Se	83Kr	89Y	94Mo	95Mo	96Mo	97Mo	98Mo
1	16:30:56	90.8338	62.5002	780251.4800	4201.0587	362.5079	1050.0662	235.0033	637.5244
2	16:31:36	82.5004	63.3336	780243.2600	4328.6239	435.0114	1090.0713	232.5032	680.0278
3	16:32:15	113.3341	71.6670	779887.1200	4201.0587	405.0098	1067.5684	220.0029	687.5284
4	16:32:55	105.0007	66.6669	784471.4100	4038.4783	380.0087	1092.5716	237.5034	627.5236
5	16:33:35	104.1673	66.6669	781621.3600	4311.1149	315.0060	1052.5665	267.5043	652.5256
X		99.1673	66.1669	781294.9300	4216.0669	379.5087	1070.5688	238.5034	657.0259
%RSD		12.422	5.461	0.243	2.748	11.916	1.879	7.360	3.977

Run	Time	103Rh	107Ag	108Mo O	109Ag	111Cd	115In	118Sn	121Sb
1	16:30:56	893242.7400	436.2614	45.0001	422.5107	543.7677	821535.4000	2320.3230	352.5075
2	16:31:36	904439.2900	510.0156	70.0003	456.2625	533.7671	819619.8400	2207.7924	292.5051
3	16:32:15	904717.1700	513.7658	72.5003	448.7621	536.2672	825334.7200	2257.8058	330.0065
4	16:32:55	912576.3000	510.0156	60.0002	488.7643	523.7665	824026.8000	2080.2596	300.0054
5	16:33:35	908933.5900	467.5131	60.0002	412.5102	447.5120	824657.3300	2287.8140	297.5053
X		904781.8200	487.5143	61.5002	445.7620	517.0161	823034.8200	2230.7990	314.5060
%RSD		0.803	7.053	17.626	6.744	7.641	0.290	4.204	8.211

Run	Time	135Ba	137Ba	159Tb	203Tl	205Tl	206Pb	207Pb	208Pb
1	16:30:56	33040.3700	58612.9060	1284671.3000	298.7554	833.7917	163934.2600	133076.6500	336489.0500
2	16:31:36	33208.5370	58862.1540	1297630.3000	356.2576	806.2890	162501.6100	134288.3500	335484.7500
3	16:32:15	33582.5310	58124.5030	1292078.8000	365.0080	887.5473	164941.3400	137390.8100	341949.7300
4	16:32:55	33396.7870	58001.1480	1291451.8000	367.5081	863.7948	161469.3300	134913.3300	335354.6700
5	16:33:35	32330.0930	56309.6060	1287067.3000	338.7569	847.5431	158024.2300	130897.5400	324247.8200
X		33111.6640	57982.0630	1290579.9000	345.2572	847.7932	162174.1500	134113.3400	334705.2000
%RSD		1.455	1.723	0.387	8.206	3.614	1.648	1.781	1.925

Run	Time	209Bi	220Bkg
1	16:30:56	899033.6200	2.5000
2	16:31:36	899901.4700	2.5000
3	16:32:15	909650.8900	0.0000
4	16:32:55	908512.4100	0.0000
5	16:33:35	911544.5100	2.5000
X		905728.5800	1.5000
%RSD		0.643	91.287

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User Pre-dilution: 1.00

Run	Time	6Li	9Be	23Na	24Mg	25Mg	26Mg	27Al	39K
1	16:35:15	253526.2500	7641.0015	112288.9700	T4699204.0000	564455.3700	634580.3300	T28811128.0000	T1345813.5000
2	16:35:55	259609.3000	7919.5947	115786.3400	T4729485.5000	581981.4600	645508.7000	T29447237.0000	T1385434.6000
3	16:36:34	262288.7700	8042.2121	113692.8100	T4932763.5000	592344.8100	658433.5000	T30087371.0000	T1403130.5000
4	16:37:14	260513.5400	7977.1496	113330.4200	T4880822.0000	600884.8900	657390.8100	T29809528.0000	T1415944.3000
5	16:37:54	263821.0200	8055.5583	114544.3500	T4847918.7000	595331.8000	649383.0300	T29817478.0000	T1371742.3000
X		259951.7700	7927.1032	113928.5800	T4818038.7000	586999.6700	649059.2700	T29594549.0000	T1384413.1000
%RSD		1.516	2.131	1.156	T2.074	2.445	1.501	T1.668	T1.977

Run	Time	44Ca	45Sc	47Ti	51V	52Cr	54Fe	55Mn	56Fe
1	16:35:15	293478.3500	472009.4200	33883.7470	383524.4400	170899.6100	860960.5500	T2648310.9000	T14784454.0000
2	16:35:55	293804.5500	471303.6100	34912.9820	388046.7500	172532.7500	872536.7900	T2676131.8000	T15081698.0000
3	16:36:34	302471.4900	478773.1200	33891.2770	394900.2000	177842.6400	881569.8800	T2727602.5000	T15200941.0000
4	16:37:14	301815.8500	479185.8600	35226.7990	394892.3400	174462.3100	881669.6600	T2712711.9000	T15099072.0000
5	16:37:54	301901.3700	483428.1600	35701.3120	395843.4100	176913.1700	893103.9800	T2721957.7000	T15309980.0000
X		298694.3200	476940.0300	34723.2230	391441.4300	174530.1000	877968.1700	T2697343.0000	T15095229.0000
%RSD		1.547	1.082	2.341	1.384	1.666	1.365	T1.259	T1.300

Run	Time	57Fe	59Co	60Ni	63Cu	65Cu	66Zn	75As	78Se
1	16:35:15	346929.3400	448397.5700	104496.0800	164862.3000	80060.2400	172514.8900	5409.2550	2978.8657
2	16:35:55	353249.2000	456030.5100	107025.3800	168233.6800	81393.0580	176269.7500	5608.5534	3078.0684
3	16:36:34	354508.5300	461745.1600	108390.3500	169583.1300	83503.7870	182075.0900	5716.9603	3088.9057
4	16:37:14	352925.9300	465284.0800	108767.7200	171899.8700	84104.7860	180404.3300	5561.8554	3040.5546
5	16:37:54	353775.8500	461903.5800	108537.2500	171404.8300	82357.4640	179709.5600	5755.3201	3116.4159
X		352277.7700	458672.1800	107443.3600	169196.7600	82283.8670	178194.7200	5610.3889	3060.5621
%RSD		0.866	1.447	1.659	1.673	1.973	2.141	2.444	1.737

Run	Time	82Se	83Kr	89Y	94Mo	95Mo	96Mo	97Mo	98Mo
1	16:35:15	1047.5658	59.1669	763578.0600	3585.7713	397.5095	962.5556	207.5026	675.0273
2	16:35:55	1078.4031	78.3337	774264.8700	3438.2091	377.5086	1020.0624	262.5041	675.0273
3	16:36:34	1020.8959	67.5003	774609.8200	3830.8803	497.5149	1047.5658	310.0058	665.0265
4	16:37:14	1043.3987	85.0004	781867.9600	3565.7627	415.0103	1077.5697	255.0039	712.5305
5	16:37:54	1101.7395	86.6671	772666.2100	3463.2195	467.5131	1072.5690	285.0049	650.0254
X		1058.4006	75.3337	773397.3800	3576.7686	431.0113	1036.0645	264.0043	675.5274
%RSD		2.998	15.617	0.845	4.351	11.598	4.539	14.464	3.416

Run	Time	103Rh	107Ag	108Mo O	109Ag	111Cd	115In	118Sn	121Sb
1	16:35:15	886679.1800	30109.2960	482.5140	28950.2000	6456.2500	800407.7200	1697.6729	9683.1225
2	16:35:55	894708.1400	30594.8100	427.5110	29120.7920	6585.1008	801382.5700	1670.1674	9953.4407
3	16:36:34	898825.3500	31641.2060	487.5143	30177.0400	6743.9778	810309.5100	1630.1594	9813.2746
4	16:37:14	903511.2600	31839.4590	470.0133	30589.7910	6601.3636	815842.2600	1762.6864	10041.0460
5	16:37:54	894988.4800	30488.1700	477.5137	29302.6780	6875.3350	817223.2400	1675.1684	9648.0819
X		895742.4800	30934.5880	469.0132	29628.1000	6652.4055	809033.0600	1687.1709	9827.7931
%RSD		0.692	2.459	5.135	2.416	2.420	0.973	2.888	1.723

Run	Time	135Ba	137Ba	159Tb	203Tl	205Tl	206Pb	207Pb	208Pb
1	16:35:15	161288.3800	282878.5900	1247613.1000	23945.6040	57014.3730	163954.6600	136785.9900	341546.1700
2	16:35:55	163133.7800	287575.3100	1267561.7000	24365.5690	58454.2980	167427.6900	139162.3500	347109.1000
3	16:36:34	166091.3500	291234.1400	1259830.3000	24790.5700	59446.2780	169254.0400	139327.5700	350566.9200
4	16:37:14	167573.0700	290864.0500	1264629.8000	24843.2260	59272.5470	169567.8200	141249.5300	350040.4700
5	16:37:54	165716.5000	289497.6800	1271580.5000	24627.5870	58434.1570	167200.7000	138531.9700	344246.4500
X		164760.6100	288409.9500	1262243.1000	24514.5110	58524.3310	167480.9800	139011.4800	346701.8200
%RSD		1.526	1.182	0.732	1.503	1.644	1.336	1.155	1.106

Run	Time	209Bi	220Bkg
1	16:35:15	884781.2100	0.0000
2	16:35:55	884527.5300	2.5000
3	16:36:34	887880.0100	0.0000
4	16:37:14	889670.4600	0.0000
5	16:37:54	883321.6200	2.5000
X		886036.1700	1.0000
%RSD		0.298	136.931

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User Pre-dilution: 1.00

Run	Time	6Li	9Be	23Na	24Mg	25Mg	26Mg	27Al	39K
1	16:39:37	263285.3000	347.5073	113606.6500	↹4669064.2000	564396.5800	628693.2500	↹28515964.0000	↹1356192.6000
2	16:40:16	262449.5500	355.0076	113586.3700	↹4766616.9000	575070.5600	633502.8000	↹28891476.0000	↹1405477.4000
3	16:40:56	260710.3800	378.3419	↹122981.1000	↹4812369.8000	582875.8400	651671.7600	↹29214976.0000	↹1421177.8000
4	16:41:36	266955.1600	374.1751	115913.0800	↹4881011.0000	583684.6100	657093.7000	↹29166042.0000	↹1420474.9000
5	16:42:15	268848.7700	349.1740	115129.8400	↹4853705.7000	596302.6700	644370.4700	↹29330316.0000	↹1394885.0000
x		264449.8300	360.8412	↹116243.4100	↹4796553.5000	580466.0500	643066.3900	↹29023755.0000	↹1399641.5000
%RSD		1.268	3.997	↹3.353	↹1.738	2.028	1.857	↹1.125	↹1.905

Run	Time	44Ca	45Sc	47Ti	51V	52Cr	54Fe	55Mn	56Fe
1	16:39:37	287489.9400	478796.9300	35224.2880	62891.4280	47417.0200	867159.0200	↹2164872.3000	↹15049578.0000
2	16:40:16	292631.8500	480581.6400	36640.3740	63201.2590	48377.5170	886429.6100	↹2191024.8000	↹15286898.0000
3	16:40:56	296461.1900	481048.7200	37993.9150	64176.1670	49094.1900	899683.4600	↹2205192.4000	↹15559149.0000
4	16:41:36	299491.7200	486556.3200	38119.4870	64561.6270	48762.2490	891910.7700	↹2235877.4000	↹15499099.0000
5	16:42:15	295477.1500	487718.9100	37217.9250	65027.7300	49217.4130	907326.8300	↹2213729.2000	↹15433876.0000
x		294310.3700	482940.5000	37039.1980	63971.6420	48573.6780	890501.9400	↹2202139.2000	↹15365720.0000
%RSD		1.540	0.817	3.184	1.412	1.491	1.713	↹1.200	↹1.326

Run	Time	57Fe	59Co	60Ni	63Cu	65Cu	66Zn	75As	78Se
1	16:39:37	349438.4800	17708.7960	8541.8756	52565.2650	25466.3530	112088.8000	1866.8758	737.5326
2	16:40:16	353538.6000	17708.7960	8789.6330	53106.1780	26018.0530	114683.7500	1906.8848	805.0389
3	16:40:56	363138.4600	18615.7700	8684.5229	53951.5830	26324.0120	113905.6900	2010.2424	799.2050
4	16:41:36	359659.8700	18287.5440	9285.1700	53234.4930	26617.4420	117571.0700	1997.7394	798.3716
5	16:42:15	362512.0500	18573.1750	8932.2846	53830.8060	26356.6140	115380.7700	1886.8803	821.7072
x		357657.4900	18178.8160	8846.6972	53337.6650	26156.4950	114726.0100	1933.7245	792.3711
%RSD		1.667	2.460	3.207	1.061	1.684	1.752	3.405	4.046

Run	Time	82Se	83Kr	89Y	94Mo	95Mo	96Mo	97Mo	98Mo
1	16:39:37	98.3339	74.1670	773386.1200	4010.9650	402.5097	1245.0930	237.5034	602.5218
2	16:40:16	105.0007	69.1670	768112.7400	4286.1020	382.5088	1127.5763	307.5057	615.0227
3	16:40:56	104.1673	84.1671	775721.4300	4221.0688	362.5079	1187.5846	247.5037	575.0198
4	16:41:36	91.6672	61.6669	775721.4300	4373.6474	355.0076	1085.0706	247.5037	707.5300
5	16:42:15	98.3339	70.8336	777498.6600	4108.5125	352.5075	1150.0794	255.0039	632.5240
x		99.5006	72.0003	774088.0800	4200.0591	371.0083	1159.0808	259.0041	626.5237
%RSD		5.415	11.387	0.471	3.411	5.710	5.241	10.740	7.964

Run	Time	103Rh	107Ag	108Mo O	109Ag	111Cd	115In	118Sn	121Sb
1	16:39:37	890970.1800	463.7629	75.0003	418.7605	443.7618	808434.9000	1860.2076	387.5090
2	16:40:16	894719.2500	465.0130	60.0002	461.2628	486.2642	808371.6800	1855.2065	332.5066
3	16:40:56	895588.0600	471.2633	65.0003	465.0130	480.0138	808280.9900	1947.7276	320.0061
4	16:41:36	900011.1700	502.5152	75.0003	456.2625	513.7658	815094.0900	1935.2247	340.0069
5	16:42:15	911355.4100	468.7632	75.0003	425.0108	428.7610	805305.0100	1960.2305	367.5081
x		898528.8100	474.2635	70.0003	445.2619	470.5133	809097.3300	1911.7194	349.5074
%RSD		0.875	3.389	10.102	4.868	7.260	0.446	2.622	7.859

Run	Time	135Ba	137Ba	159Tb	203Tl	205Tl	206Pb	207Pb	208Pb
1	16:39:37	32136.8470	56181.2440	1251264.7000	358.7577	851.2935	153251.3200	128386.4200	318157.1700
2	16:40:16	33253.7160	58167.3000	1265911.8000	332.5066	883.7969	158123.5800	130379.5100	322834.5000
3	16:40:56	33389.2570	59270.0290	1273576.0000	381.2587	922.5511	157456.1200	130694.3900	326220.0900
4	16:41:36	33411.8470	58051.4970	1267865.6000	392.5092	881.2966	158707.0200	130691.8500	329170.2700
5	16:42:15	32872.2070	57764.5130	1262847.4000	358.7577	872.5457	157252.3300	129137.9000	325165.0400
x		33012.7750	57886.9170	1264293.1000	364.7580	882.2967	156958.0800	129858.0100	324309.4200
%RSD		1.621	1.920	0.654	6.363	2.934	1.370	0.803	1.272

Run	Time	209Bi	220Bkg
1	16:39:37	881908.0100	0.0000
2	16:40:16	890240.5400	5.0000
3	16:40:56	888724.5600	2.5000
4	16:41:36	882280.7900	2.5000
5	16:42:15	883460.2300	2.5000
x		885322.8300	2.5000
%RSD		0.438	70.711

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User Pre-dilution: 1.00

Run	Time	6Li	9Be	23Na	24Mg	25Mg	26Mg	27Al	39K
1	16:43:56	262567.3400	113.3341	36587.6430	931840.9800	114425.2300	126056.2500	T 5612347.2000	290105.7900
2	16:44:36	264006.7600	103.3340	36469.6280	957466.2700	116615.2800	127310.1000	T 5627798.8000	296564.7800
3	16:45:15	266435.5900	99.1673	37200.3470	969629.4500	116818.0900	129848.8200	T 5695761.1000	298546.1800
4	16:45:55	267321.6300	117.5008	39199.4800	960553.0300	115793.9400	128965.2600	T 5659462.2000	T 297641.7300
5	16:46:35	267319.9100	100.0006	37099.9010	934065.5800	112747.6000	125634.9600	T 5553294.5000	289580.4800
x		265530.2500	106.6674	37311.4000	950711.0600	115280.0300	127563.0800	T 5629732.8000	T 294487.7900
%RSD		0.806	7.754	2.953	1.771	1.474	1.426	T 0.948	T 1.461

Run	Time	44Ca	45Sc	47Ti	51V	52Cr	54Fe	55Mn	56Fe
1	16:43:56	57704.0960	474567.5000	6632.6385	12849.9000	9998.4946	171409.9400	423391.6700	T 3074928.1000
2	16:44:36	57704.0960	476968.9400	6597.6107	13010.1480	10246.2950	174230.0200	427122.5100	T 3099063.6000
3	16:45:15	58889.8480	482724.0500	7706.0614	12371.6770	10504.1160	175488.5200	432441.5800	T 3146631.6000
4	16:45:55	59040.9110	479922.7500	6665.1644	12416.7440	10308.8720	173385.1700	430536.6400	T 3120148.7000
5	16:46:35	57653.7500	476479.6100	6752.7349	12935.0310	10228.7740	171555.3800	420747.6800	T 3062375.4000
x		58198.5400	478132.5700	6870.8420	12716.7000	10257.3100	173213.8100	426848.0200	T 3100629.5000
%RSD		1.207	0.670	6.847	2.361	1.768	1.010	1.136	T 1.097

Run	Time	57Fe	59Co	60Ni	63Cu	65Cu	66Zn	75As	78Se
1	16:43:56	68780.1760	3598.2767	1840.2032	11072.3510	5624.3974	23906.7430	402.5097	717.5309
2	16:44:36	69506.1630	3570.7649	1915.2201	11290.1430	5659.4211	24034.6100	465.8464	700.0294
3	16:45:15	70895.2910	3608.2810	1860.2076	11342.7140	5606.8856	23896.7140	389.1758	712.5305
4	16:45:55	69750.6930	3475.7247	1850.2054	11267.6120	5559.3538	24022.0740	406.6766	740.0329
5	16:46:35	68213.0430	3600.7778	1740.1817	10957.1990	5466.7926	22996.6870	422.5107	723.3647
x		69429.0730	3570.7650	1841.2036	11186.0040	5583.3701	23771.3660	417.3438	718.6977
%RSD		1.469	1.540	3.449	1.464	1.334	1.841	7.094	2.046

Run	Time	82Se	83Kr	89Y	94Mo	95Mo	96Mo	97Mo	98Mo
1	16:43:56	97.5006	69.1670	752522.0200	895.0481	105.0007	272.5045	45.0001	127.5010
2	16:44:36	91.6672	65.0003	754649.6100	835.0418	87.5005	230.0032	50.0001	142.5012
3	16:45:15	85.8338	85.8338	750698.0000	892.5478	75.0003	190.0022	62.5002	152.5014
4	16:45:55	60.8336	72.5003	755963.5700	860.0444	85.0004	195.0023	62.5002	142.5012
5	16:46:35	76.6670	64.1669	757162.9700	757.5344	72.5003	257.5040	50.0001	132.5011
x		82.5004	71.3336	754199.2300	848.0433	85.0004	229.0032	54.0002	139.5012
%RSD		17.393	12.297	0.346	6.643	15.141	16.019	14.858	6.987

Run	Time	103Rh	107Ag	108Mo O	109Ag	111Cd	115In	118Sn	121Sb
1	16:43:56	903569.6100	111.2507	12.5000	107.5007	125.0009	810446.9700	445.0119	102.5006
2	16:44:36	906245.6300	136.2511	10.0000	110.0007	101.2506	815242.6200	457.5126	105.0007
3	16:45:15	906893.2200	116.2508	27.5000	143.7512	95.0005	814637.5200	482.5140	102.5006
4	16:45:55	911633.5000	172.5018	12.5000	146.2513	133.7511	818852.0900	445.0119	80.0004
5	16:46:35	919933.0500	130.0010	20.0000	130.0010	106.2507	816032.0600	610.0223	107.5007
x		909655.0000	133.2511	16.5000	127.5010	112.2508	815042.2500	488.0145	99.5006
%RSD		0.708	18.125	43.651	14.292	14.634	0.372	14.324	11.152

Run	Time	135Ba	137Ba	159Tb	203Tl	205Tl	206Pb	207Pb	208Pb
1	16:43:56	6367.4317	11179.9950	1257528.4000	120.0009	302.5055	31760.4080	26584.8380	64914.3510
2	16:44:36	6409.9643	11527.9680	1259853.4000	111.2507	286.2549	31348.8540	25935.2960	65304.8850
3	16:45:15	6277.3634	11054.8280	1264456.2000	122.5009	283.7548	31717.7460	26735.3180	65811.3460
4	16:45:55	6419.9720	11452.8650	1268088.5000	131.2510	370.0082	32079.1260	26599.8860	65524.0960
5	16:46:35	6257.3484	11190.0080	1271870.1000	131.2510	318.7561	31527.0250	25616.8130	63881.4150
x		6346.4160	11281.1330	1264359.3000	123.2509	312.2559	31686.6320	26294.4300	65087.2190
%RSD		1.184	1.774	0.463	6.826	11.278	0.864	1.863	1.151

Run	Time	209Bi	220Bkg
1	16:43:56	895961.4200	2.5000
2	16:44:36	897678.5600	0.0000
3	16:45:15	897414.7900	10.0000
4	16:45:55	902154.1200	0.0000
5	16:46:35	901226.3200	0.0000
x		898887.0400	2.5000
%RSD		0.296	173.205

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User Pre-dilution: 1.00

Run	Time	6Li	9Be	23Na	24Mg	25Mg	26Mg	27Al	39K
1	16:48:16	267516.0600	7850.3626	T8636964.0000	T9467001.9000	1152129.5000	T1249833.9000	T28238121.0000	T4760347.5000
2	16:48:55	264530.4800	7938.7797	T8765479.0000	T9581537.7000	1166932.7000	1291425.7000	T28406345.0000	T4807473.7000
3	16:49:35	262420.3200	8113.1141	T8784943.2000	T9601237.2000	1175563.9000	T1276634.3000	T28539167.0000	T4845287.6000
4	16:50:15	266373.6600	8108.1092	T8727044.6000	T9520360.6000	1161633.2000	1288924.1000	T28424488.0000	T4830503.4000
5	16:50:54	265779.2900	7731.9186	T8592412.0000	T9417871.3000	1153495.5000	1278252.5000	T28134047.0000	T4769722.5000
X		265323.9600	7948.4568	T8701368.6000	T9517601.8000	1161951.0000	T1277014.1000	T28348434.0000	T4802666.9000
%RSD		0.734	2.079	T0.958	T0.807	0.837	T1.293	T0.568	T0.771

Run	Time	44Ca	45Sc	47Ti	51V	52Cr	54Fe	55Mn	56Fe
1	16:48:16	436050.0100	475352.9200	36595.1760	224493.6600	107443.2100	1024090.5000	T2178372.6000	T17672273.0000
2	16:48:55	440439.5600	483025.8000	36389.2780	224660.5600	108598.0300	1037798.6000	T2210962.4000	T17716973.0000
3	16:49:35	443469.0500	483770.9700	35013.4020	226029.3400	111495.9200	1046401.3000	T2199867.4000	T17793751.0000
4	16:50:15	441751.3300	482804.7800	34802.5210	222290.7700	107704.0400	1037609.6000	T2195098.5000	T17685078.0000
5	16:50:54	434468.0100	481124.1400	33753.2190	220945.7000	107559.6900	1020567.6000	T2172880.7000	T17479105.0000
X		439235.5900	481215.7200	35310.7190	223684.0100	108560.1800	1033293.5000	T2191436.3000	T17669436.0000
%RSD		0.871	0.710	3.347	0.909	1.569	1.035	T0.715	T0.659

Run	Time	57Fe	59Co	60Ni	63Cu	65Cu	66Zn	75As	78Se
1	16:48:16	414057.2400	59116.4440	17716.3120	96300.7330	46388.7570	121552.5800	6481.6864	6535.0614
2	16:48:55	416213.2700	59620.0130	17578.5210	96320.9650	47361.7060	123201.5300	6381.6092	6815.2857
3	16:49:35	413768.4200	59677.9250	18445.3910	96202.1040	47801.7080	123538.9800	6564.2510	6593.4407
4	16:50:15	414887.0200	60246.9980	18084.6020	97790.4310	47613.1330	124437.1900	6542.5673	6703.5285
5	16:50:54	411004.0300	59353.1180	18282.5330	95425.7540	47391.8770	120586.1900	6349.0844	6632.6385
X		413986.0000	59602.8990	18021.4720	96407.9970	47311.4360	122663.3000	6463.8397	6655.9910
%RSD		0.463	0.712	2.041	0.889	1.154	1.273	1.478	1.624

Run	Time	82Se	83Kr	89Y	94Mo	95Mo	96Mo	97Mo	98Mo
1	16:48:16	2484.5370	66.6669	762487.1300	4191.0536	352.5075	1057.5671	225.0030	615.0227
2	16:48:55	2497.0407	79.1670	764753.9000	4101.0088	325.0063	1095.0719	210.0027	710.0303
3	16:49:35	2555.3917	80.8337	766055.7100	4241.0789	395.0094	1142.5783	295.0052	632.5240
4	16:50:15	2473.7004	67.5003	T843117.4100	3895.9105	390.0091	1120.0753	275.0045	557.5187
5	16:50:54	2411.1821	69.1670	765224.2800	4183.5499	422.5107	1060.0674	267.5043	605.0220
X		2484.3704	72.6670	T780327.6800	4122.5203	377.0086	1095.0720	254.5040	624.0235
%RSD		2.079	9.331	T4.501	3.306	10.159	3.390	14.003	8.899

Run	Time	103Rh	107Ag	108Mo O	109Ag	111Cd	115In	118Sn	121Sb
1	16:48:16	880414.2600	30047.8250	505.0153	28823.5120	6309.8880	791951.7400	2112.7678	30939.8300
2	16:48:55	883742.9800	31012.6000	492.5146	29542.2720	6456.2500	792958.5600	2197.7898	31401.5520
3	16:49:35	880070.6500	31186.9990	467.5131	30021.4800	6442.4894	797000.7400	2535.3856	31830.6760
4	16:50:15	881630.8500	31415.3540	510.0156	29907.3210	6282.3672	793290.5400	2190.2878	31833.1850
5	16:50:54	886925.9900	30224.7130	542.5177	28651.6710	6223.5731	798672.4900	2060.2546	31298.6660
X		882556.9500	30777.4980	503.5153	29389.2510	6342.9135	794774.8100	2219.2971	31460.7820
%RSD		0.321	1.968	5.423	2.122	1.611	0.365	8.365	1.207

Run	Time	135Ba	137Ba	159Tb	203Tl	205Tl	206Pb	207Pb	208Pb
1	16:48:16	63130.7270	109370.5400	1239010.2000	23088.1900	54731.6450	170136.7400	143721.2500	353728.9200
2	16:48:55	62815.8610	110302.7000	1244569.4000	23358.9430	56479.5000	172724.1600	144067.1500	359346.7800
3	16:49:35	64193.8020	113099.8200	1241434.3000	23587.0840	57003.0460	175000.9300	144268.0800	354109.5900
4	16:50:15	62820.8990	111417.3800	1246665.8000	23729.9890	55961.0190	170784.8000	143891.6600	357567.6500
5	16:50:54	62551.3830	110062.0500	1244075.7000	22960.3370	55623.7730	168797.4100	142274.2400	352529.6800
X		63102.5340	110850.5000	1243151.1000	23344.9080	55959.7970	171488.8100	143644.4700	355456.5300
%RSD		1.020	1.314	0.239	1.390	1.542	1.411	0.552	0.808

Run	Time	209Bi	220Bkg
1	16:48:16	850512.4700	0.0000
2	16:48:55	861069.7700	2.5000
3	16:49:35	860151.8400	2.5000
4	16:50:15	860952.2600	0.0000
5	16:50:54	856530.8300	2.5000
X		857843.4300	1.5000
%RSD		0.524	91.287

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User Pre-dilution: 1.00

Run	Time	6Li	9Be	23Na	24Mg	25Mg	26Mg	27Al	39K
1	16:52:35	262410.0000	393.3426	105579.6100	↹1631586.0000	198537.1800	218615.4400	↹33033139.0000	↹1481707.6000
2	16:53:15	262678.2600	391.6759	106096.1100	↹1637845.5000	201082.1200	218245.9400	↹33104603.0000	↹1503105.8000
3	16:53:55	261037.0400	380.8420	106521.4900	↹1648333.0000	199187.4200	216721.9300	↹33315032.0000	↹1500620.8000
4	16:54:35	265393.9600	351.6741	104278.3800	↹1636499.1000	195578.4400	218061.1900	↹33093027.0000	↹1514877.9000
5	16:55:14	267863.6300	378.3419	104083.4700	↹1611910.2000	193096.5500	215075.0800	↹32594387.0000	↹1476938.5000
X		263876.5800	379.1753	105311.8100	↹1633234.7000	197496.3400	217343.9200	↹33028038.0000	↹1495450.1000
%RSD		1.035	4.407	1.032	↹0.820	1.598	0.670	↹0.802	↹1.054

Run	Time	44Ca	45Sc	47Ti	51V	52Cr	54Fe	55Mn	56Fe
1	16:52:35	118189.7300	477962.2500	38172.2270	76052.9670	56161.1090	990425.1200	1601986.4000	↹16993050.0000
2	16:53:15	119873.5200	477792.9400	38840.3040	75841.0490	56229.0650	999523.9100	1623126.8000	↹17164641.0000
3	16:53:55	120740.9100	479955.8300	38719.7450	76766.9690	56807.9710	1002282.6000	1618302.0000	↹17239620.0000
4	16:54:35	120563.3700	489610.1200	37911.0390	75147.3060	55957.2440	996844.6800	1611278.6000	↹17081158.0000
5	16:55:14	118438.2200	483395.0700	38440.9580	75356.6840	55781.0690	984027.0600	1591443.5000	↹16854591.0000
X		119561.1500	481743.2400	38416.8550	75832.9950	56187.2910	994620.6800	1609227.5000	↹17066612.0000
%RSD		0.993	1.026	0.997	0.839	0.693	0.741	0.791	↹0.879

Run	Time	57Fe	59Co	60Ni	63Cu	65Cu	66Zn	75As	78Se
1	16:52:35	393176.5000	22422.6260	11633.1140	559083.2500	269330.6200	236270.1000	1685.1704	788.3706
2	16:53:15	399197.8800	22422.6260	11510.4440	564661.1300	271029.3900	234023.0000	1623.4915	749.2003
3	16:53:55	398906.9300	22746.0010	12088.7620	564626.4000	277249.0600	235231.3200	1687.6709	731.6988
4	16:54:35	400909.6900	22806.1650	11500.4300	566577.3600	273653.0800	237177.8400	1628.4924	750.0338
5	16:55:14	393236.7400	21755.8620	11422.8230	555761.7400	269981.1800	232688.9200	1673.5014	788.3706
X		397085.5500	22430.6560	11631.1150	562141.9800	272248.6700	235078.2400	1659.6653	761.5348
%RSD		0.912	1.860	2.293	0.807	1.192	0.757	1.883	3.357

Run	Time	82Se	83Kr	89Y	94Mo	95Mo	96Mo	97Mo	98Mo
1	16:52:35	95.0005	81.6671	762416.0500	2925.5134	450.0122	1087.5710	227.5031	707.5300
2	16:53:15	105.0007	78.3337	766148.7000	2985.5347	460.0127	980.0576	292.5051	807.5391
3	16:53:55	114.1675	81.6671	765391.1000	2990.5365	425.0108	997.5597	337.5068	757.5344
4	16:54:35	108.3340	68.3336	774853.4900	2752.9547	512.5158	982.5579	290.0051	692.5288
5	16:55:14	90.8338	77.5004	774201.9000	2742.9514	475.0135	1035.0643	332.5066	885.0470
X		102.6673	77.5004	768602.2500	2879.4981	464.5130	1016.5621	296.0054	770.0359
%RSD		9.350	7.051	0.727	4.266	6.980	4.463	14.914	10.206

Run	Time	103Rh	107Ag	108Mo O	109Ag	111Cd	115In	118Sn	121Sb
1	16:52:35	893170.5900	640.0246	75.0003	670.0269	642.5248	791263.2100	1637.6609	465.0130
2	16:53:15	884757.6500	703.7797	55.0002	663.7764	691.2787	790607.6600	1505.1359	437.5115
3	16:53:55	889388.9000	642.5248	67.5003	660.0261	667.5267	799979.3800	1425.1218	452.5123
4	16:54:35	897126.0400	660.0261	52.5002	685.0282	681.2779	809157.7600	1412.6197	447.5120
5	16:55:14	897001.1000	668.7768	70.0003	635.0242	656.2758	804384.6700	1532.6409	390.0091
X		892288.8500	663.0264	64.0002	662.7764	667.7768	799078.5400	1502.6359	438.5116
%RSD		0.592	3.884	15.279	2.748	2.904	1.016	6.067	6.583

Run	Time	135Ba	137Ba	159Tb	203Tl	205Tl	206Pb	207Pb	208Pb
1	16:52:35	42598.6010	76595.4010	1239838.3000	370.0082	961.3054	207329.9500	170795.0000	423717.6300
2	16:53:15	42955.4260	75651.8400	1236627.0000	406.2599	1011.3114	206796.9500	171649.8000	427682.6700
3	16:53:55	43631.4240	76668.5690	1255108.5000	418.7605	917.5505	209203.4100	171460.9700	429989.4500
4	16:54:35	43460.5340	76862.8470	1265361.9000	410.0101	1000.0600	209080.3800	171910.0800	433717.9100
5	16:55:14	43259.4920	75621.5670	1252709.5000	378.7586	956.3049	206802.0800	169287.2000	423985.7600
X		43181.0950	76280.0450	1249929.1000	396.7595	969.3064	207842.5500	171020.6100	427818.6800
%RSD		0.953	0.781	0.939	5.331	3.868	0.580	0.616	0.985

Run	Time	209Bi	220Bkg
1	16:52:35	866637.4700	0.0000
2	16:53:15	868368.2500	0.0000
3	16:53:55	869163.8800	0.0000
4	16:54:35	886731.8700	0.0000
5	16:55:14	885314.9300	0.0000
X		875243.2800	0.0000
%RSD		1.131	0.000

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User Pre-dilution: 1.00

Run	Time	6Li	9Be	23Na	24Mg	25Mg	26Mg	27Al	39K
1	16:56:56	260770.5600	552.5183	↹134149.9700	↹1584652.1000	189561.7700	207399.1400	↹39239328.0000	↹2013825.7000
2	16:57:35	262880.3100	598.3548	132218.1400	↹1622728.4000	193511.0000	211946.4300	↹40228008.0000	↹2032136.5000
3	16:58:15	264422.9900	580.0202	136262.5100	↹1640750.8000	198168.5600	215972.8500	↹40784641.0000	↹2049506.0000
4	16:58:54	264580.3600	614.1893	134544.9400	↹1636522.7000	195240.6500	214977.6100	↹40416655.0000	↹2066863.0000
5	16:59:34	266645.4800	614.1893	131339.4100	↹1624476.3000	193674.7400	211772.0800	↹39973592.0000	↹2022221.8000
x		263859.9400	591.8544	↹133703.0000	↹1621826.0000	194031.3500	212413.6200	↹40128445.0000	↹2036910.6000
%RSD		0.828	4.412	↹1.460	↹1.366	1.608	1.579	↹1.441	↹1.049

Run	Time	44Ca	45Sc	47Ti	51V	52Cr	54Fe	55Mn	56Fe
1	16:56:56	83349.7570	479285.0800	35467.8180	99090.6560	73815.4820	1379186.8000	↹2183475.2000	↹23536200.0000
2	16:57:35	84231.0520	478373.6300	34687.0420	100423.9700	75899.0730	1399106.5000	↹2212380.5000	↹23774800.0000
3	16:58:15	86574.8890	480854.2100	34950.6390	100765.5600	77054.6050	1407734.7000	↹2219624.3000	↹23842834.0000
4	16:58:54	84973.5320	480900.5200	35141.4390	100588.4400	75591.2950	1399961.3000	↹2214007.2000	↹23555135.0000
5	16:59:34	84251.2540	482787.5800	35020.9340	99601.6940	75740.1370	1387408.8000	↹2190329.6000	↹23521357.0000
x		84676.0970	480440.2000	35053.5740	100094.0600	75620.1180	1394679.6000	↹2203963.4000	↹23646065.0000
%RSD		1.426	0.353	0.814	0.716	1.538	0.810	↹0.725	↹0.639

Run	Time	57Fe	59Co	60Ni	63Cu	65Cu	66Zn	75As	78Se
1	16:56:56	543722.6700	35922.2580	14269.7070	150188.8100	74380.4720	108633.4900	2502.0422	720.0311
2	16:57:35	552956.5400	36914.0780	13786.3940	151372.4400	74577.2190	110249.5000	2545.3887	731.6988
3	16:58:15	554832.8000	36986.9000	14056.8460	150743.7000	75101.9000	110816.9600	2613.7432	760.0347
4	16:58:54	553992.0300	36630.3300	13688.7340	151285.8900	74118.1510	110444.5600	2612.9096	718.3643
5	16:59:34	549322.6200	35897.1500	13318.1340	147618.4900	73449.7720	108542.3100	2595.4041	758.3678
x		550965.3300	36470.1430	13823.9630	150241.8700	74325.5030	109737.3600	2573.8976	737.6993
%RSD		0.828	1.450	2.629	1.026	0.818	0.975	1.898	2.752

Run	Time	82Se	83Kr	89Y	94Mo	95Mo	96Mo	97Mo	98Mo
1	16:56:56	118.3342	77.5004	773418.9700	3668.3072	540.0175	1220.0893	350.0074	840.0423
2	16:57:35	101.6673	84.1671	770583.4700	3623.2875	467.5131	1165.0814	345.0071	877.5462
3	16:58:15	108.3340	83.3337	773832.3200	3505.7373	562.5190	1217.5889	332.5066	810.0394
4	16:58:54	94.1672	63.3336	775674.8800	3915.9198	575.0198	1235.0915	312.5059	810.0394
5	16:59:34	95.8339	70.8336	771182.7900	3580.7691	452.5123	1087.5710	310.0058	845.0428
x		103.6673	75.8337	772938.4900	3658.8042	519.5163	1185.0844	330.0066	836.5420
%RSD		9.556	11.604	0.268	4.256	10.779	5.114	5.541	3.366

Run	Time	103Rh	107Ag	108Mo O	109Ag	111Cd	115In	118Sn	121Sb
1	16:56:56	884167.1300	297.5053	82.5004	260.0041	421.2607	791543.0100	692.5288	305.0056
2	16:57:35	883268.9500	265.0042	70.0003	262.5041	406.2599	791430.5400	642.5248	327.5064
3	16:58:15	882021.6400	303.7555	52.5002	283.7548	401.2597	786656.1700	670.0269	335.0067
4	16:58:54	885076.4900	253.7539	67.5003	257.5040	415.0103	793268.5900	710.0303	297.5053
5	16:59:34	882293.2600	272.5045	32.5001	233.7533	422.5107	791959.9700	607.5221	312.5059
x		883365.5000	278.5047	61.0002	259.5041	413.2603	790971.6500	664.5266	315.5060
%RSD		0.145	7.679	31.427	6.851	2.249	0.319	6.121	4.930

Run	Time	135Ba	137Ba	159Tb	203Tl	205Tl	206Pb	207Pb	208Pb
1	16:56:56	40071.1110	69773.3820	1245577.1000	378.7586	912.5500	172839.0000	143154.1100	356730.3900
2	16:57:35	40668.9960	70446.5090	1232514.3000	412.5102	1038.8147	174707.3600	143477.1000	359451.1400
3	16:58:15	40802.1450	70398.6070	1232886.3000	416.2604	1003.8105	177061.2700	145702.7200	360896.6500
4	16:58:54	40882.5380	70870.0780	1237844.5000	403.7598	976.3072	175478.3100	145369.4700	359884.2500
5	16:59:34	39937.9740	70479.2850	1228798.4000	398.7595	978.8075	172997.2400	142724.3400	355924.5100
x		40472.5530	70393.5720	1235524.1000	402.0097	982.0580	174616.6400	144085.5500	358577.3900
%RSD		1.079	0.560	0.524	3.663	4.713	1.013	0.941	0.596

Run	Time	209Bi	220Bkg
1	16:56:56	865393.9100	0.0000
2	16:57:35	868033.4100	0.0000
3	16:58:15	865519.7800	2.5000
4	16:58:54	863580.7500	0.0000
5	16:59:34	867441.2500	0.0000
x		865993.8200	0.5000
%RSD		0.205	223.607

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User Pre-dilution: 1.00

Run	Time	6Li	9Be	23Na	24Mg	25Mg	26Mg	27Al	39K
1	17:01:16	260919.2700	619.1897	T 139279.8000	T 1683433.0000	203581.7200	222865.8300	T 41463604.0000	T 2067478.0000
2	17:01:55	265777.5700	617.5229	142320.0100	T 1753963.8000	207921.9300	233172.1500	T 42519985.0000	T 2120314.5000
3	17:02:35	266709.1400	621.6899	T 147395.4700	T 1785946.0000	212454.1200	235136.1900	T 43104157.0000	T 2157526.0000
4	17:03:15	266628.2800	666.6933	T 144746.3800	T 1772789.4000	210777.3300	234205.5300	T 42739610.0000	T 2153196.2000
5	17:03:54	269886.5200	630.8572	T 144667.8000	T 1721698.2000	210720.9400	229337.9200	T 42163625.0000	T 2078057.8000
X		265984.1500	631.1906	T 143681.8900	T 1743566.1000	209091.2100	230943.5200	T 42398196.0000	T 2115314.5000
%RSD		1.216	3.248	T 2.120	T 2.374	1.666	2.176	T 1.472	T 1.966

Run	Time	44Ca	45Sc	47Ti	51V	52Cr	54Fe	55Mn	56Fe
1	17:01:16	98265.9760	468886.5700	32302.4860	108068.7200	78851.2950	1552030.8000	T 2777085.1000	T 26113801.0000
2	17:01:55	98799.7320	475479.8600	33690.4650	109248.9600	81617.7400	1611540.1000	T 2866331.7000	T 26931102.0000
3	17:02:35	102306.6700	485454.7800	34282.8740	112200.2800	82501.3770	1611970.1000	T 2929342.3000	T 27485641.0000
4	17:03:15	100722.5500	482612.8800	33687.9550	111032.3000	81542.0040	1608723.2000	T 2871142.3000	T 27031243.0000
5	17:03:54	100310.1200	481562.1300	32894.7960	109864.4700	80610.5070	1605282.1000	T 2854374.6000	T 26902356.0000
X		100081.0100	478799.2400	33371.7150	110082.9400	81024.5840	1597909.3000	T 2859655.2000	T 26892829.0000
%RSD		1.608	1.384	2.322	1.450	1.712	1.614	T 1.906	T 1.840

Run	Time	57Fe	59Co	60Ni	63Cu	65Cu	66Zn	75As	78Se
1	17:01:16	616253.6300	43390.1690	14640.3490	622880.1300	301577.4500	159654.8700	2836.3159	731.6988
2	17:01:55	629414.7800	44377.8500	15073.6210	633508.1800	308416.0300	162325.7300	2913.0090	729.1986
3	17:02:35	638150.6100	45596.9040	15061.0980	645592.3200	315057.6900	165624.7000	2964.6939	736.6992
4	17:03:15	633518.9600	44717.1560	15466.8400	643351.0400	310944.9600	162942.5900	2979.6993	765.8685
5	17:03:54	625226.4400	45124.3420	14820.6670	641592.9500	307801.4200	162922.2000	2997.2056	700.8628
X		628512.8800	44641.2840	15012.5150	637384.9200	308759.5100	162694.0200	2938.1848	732.8656
%RSD		1.331	1.870	2.074	1.459	1.595	1.307	2.214	3.158

Run	Time	82Se	83Kr	89Y	94Mo	95Mo	96Mo	97Mo	98Mo
1	17:01:16	105.0007	75.0003	760319.3600	3490.7310	677.5275	1240.0923	412.5102	957.5550
2	17:01:55	92.5005	85.8338	763635.4800	3710.8260	540.0175	1247.5934	382.5088	900.0486
3	17:02:35	96.6672	74.1670	770156.5800	3498.2341	557.5187	1227.5904	382.5088	842.5426
4	17:03:15	108.3340	73.3337	768925.3000	3588.2724	560.0188	1162.5811	340.0069	937.5527
5	17:03:54	105.0007	80.8337	773183.5500	3618.2853	542.5177	1342.6081	397.5095	1022.5627
X		101.5006	77.8337	767244.0500	3581.2698	575.5200	1244.0931	383.0088	932.0523
%RSD		6.527	6.881	0.676	2.548	10.027	5.186	7.067	7.179

Run	Time	103Rh	107Ag	108Mo O	109Ag	111Cd	115In	118Sn	121Sb
1	17:01:16	863764.6700	353.7575	40.0001	335.0067	438.7616	770142.9000	742.5331	305.0056
2	17:01:55	873683.0700	402.5097	45.0001	326.2564	443.7618	785211.4800	765.0351	340.0069
3	17:02:35	882312.6700	388.7591	70.0003	400.0096	460.0127	791987.4000	792.5377	367.5081
4	17:03:15	877662.9900	426.2609	57.5002	381.2587	455.0124	790547.3200	857.5441	337.5068
5	17:03:54	877125.5800	355.0076	67.5003	328.7565	432.5112	785488.3400	790.0375	317.5061
X		874909.7900	385.2590	56.0002	354.2576	446.0119	784675.4900	789.5375	333.5067
%RSD		0.794	8.103	23.749	9.601	2.549	1.104	5.464	7.163

Run	Time	135Ba	137Ba	159Tb	203Tl	205Tl	206Pb	207Pb	208Pb
1	17:01:16	44958.4490	78583.7860	1217956.2000	412.5102	1007.5609	187206.9300	154206.1900	392008.3500
2	17:01:55	45921.1780	80219.2580	1227971.2000	415.0103	1023.8129	193357.5000	160755.7300	398044.6300
3	17:02:35	45725.1040	81817.1810	1242447.5000	458.7626	1075.0693	194516.5100	161900.0700	402286.2000
4	17:03:15	45941.2880	81047.2120	1236067.4000	442.5118	1161.3309	193342.1500	159175.8400	394949.9800
5	17:03:54	45177.1270	79358.5760	1232747.9000	440.0116	1058.8173	189500.4000	157983.4600	392828.1300
X		45544.6290	80205.2030	1231438.0000	433.7613	1065.3183	191584.7000	158804.2600	396023.4600
%RSD		0.988	1.608	0.747	4.529	5.635	1.616	1.872	1.062

Run	Time	209Bi	220Bkg
1	17:01:16	852447.2300	2.5000
2	17:01:55	867922.7200	0.0000
3	17:02:35	867651.5400	2.5000
4	17:03:15	868066.6200	0.0000
5	17:03:54	866405.0700	0.0000
X		864498.6400	1.0000
%RSD		0.783	136.931

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User Pre-dilution: 1.00

Run	Time	6Li	9Be	23Na	24Mg	25Mg	26Mg	27Al	39K
1	17:05:36	263452.9800	623.3567	132263.8600	T 1919496.3000	229471.5200	252745.5600	T 44240550.0000	T 2418922.6000
2	17:06:19	268377.2600	599.1882	137378.1100	T 1960879.4000	235177.3300	253410.3000	T 44580785.0000	T 2444449.8000
3	17:06:59	266285.9200	645.8584	136895.2600	T 1967989.2000	237080.1200	259096.1900	T 45319997.0000	T 2481435.4000
4	17:07:40	267603.8100	639.1912	137370.4800	T 1968319.9000	237615.0400	261370.5900	T 44700323.0000	T 2429502.5000
5	17:08:20	266996.4500	623.3567	T 138045.0500	T 1919897.9000	230807.6700	256770.8600	T 44496275.0000	T 2388199.6000
X		266543.2800	626.1902	T 136390.5500	T 1947316.5000	234030.3400	256678.7000	T 44667586.0000	T 2432502.0000
%RSD		0.710	2.880	T 1.718	T 1.304	1.579	1.432	T 0.900	T 1.408

Run	Time	44Ca	45Sc	47Ti	51V	52Cr	54Fe	55Mn	56Fe
1	17:05:36	107017.7800	476315.6200	40543.3870	109368.0000	78773.0600	1526957.2000	1355717.6000	T 26083452.0000
2	17:06:19	109464.2500	479601.2600	44616.6200	108983.0100	78407.1340	1555003.6000	1354525.0000	T 26301571.0000
3	17:06:59	110974.0300	483395.0700	42480.5000	109132.4400	80623.1280	1579348.6000	1369247.9000	T 26565796.0000
4	17:07:40	109140.0400	482669.7900	41462.8940	109879.6700	78677.1610	1555610.3000	1353350.1000	T 26183846.0000
5	17:08:20	108397.9500	476578.8000	41068.4480	108023.1300	78096.7390	1532696.7000	1346791.5000	T 26030472.0000
X		108998.8100	479712.1100	42034.3700	109077.2500	78915.4440	1549923.3000	1355926.4000	T 26233027.0000
%RSD		1.331	0.689	3.827	0.624	1.255	1.349	0.605	T 0.811

Run	Time	57Fe	59Co	60Ni	63Cu	65Cu	66Zn	75As	78Se
1	17:05:36	606790.6500	28019.5270	16002.8510	111584.6000	53979.2610	105518.8500	2505.3766	702.5296
2	17:06:19	609820.2500	27407.4960	16065.4710	111645.4100	54807.1390	106835.4700	2536.2192	701.6962
3	17:06:59	620612.4600	28578.9210	15749.8690	113695.3400	55655.2320	107526.7700	2613.7432	730.8654
4	17:07:40	609527.4500	28348.1350	15739.8510	111465.5200	55214.8170	106898.7700	2627.0807	741.6997
5	17:08:20	601193.5000	27299.6430	15346.6180	110700.4200	53818.2250	104789.7400	2565.3948	707.5300
X		609588.8600	27930.7440	15780.9320	111818.2600	54694.9350	106313.9200	2569.5629	716.8642
%RSD		1.160	2.021	1.796	0.998	1.441	1.056	1.995	2.549

Run	Time	82Se	83Kr	89Y	94Mo	95Mo	96Mo	97Mo	98Mo
1	17:05:36	122.5009	75.8337	760658.2900	5561.8554	505.0153	1337.6073	315.0060	797.5382
2	17:06:19	100.8339	93.3339	761300.6700	5729.4689	492.5146	1510.1368	295.0052	667.5267
3	17:06:59	124.1676	78.3337	763597.2000	5681.9364	437.5115	1330.1061	310.0058	722.5313
4	17:07:40	89.1671	75.8337	760732.1000	5551.8488	477.5137	1365.1118	325.0063	797.5382
5	17:08:20	100.0006	56.6669	759308.1000	5386.7405	492.5146	1447.6257	302.5055	807.5391
X		107.3340	76.0004	761119.2700	5582.3700	481.0139	1398.1176	309.5058	758.5347
%RSD		14.278	17.152	0.206	2.390	5.446	5.583	3.719	8.079

Run	Time	103Rh	107Ag	108Mo O	109Ag	111Cd	115In	118Sn	121Sb
1	17:05:36	873896.2800	232.5032	57.5002	223.7530	373.7584	778679.1100	902.5489	207.5026
2	17:06:19	873580.6100	287.5050	65.0003	212.5027	376.2585	778229.9200	805.0389	237.5034
3	17:06:59	863800.6300	278.7547	60.0002	260.0041	350.0074	779637.8400	872.5457	250.0038
4	17:07:40	871811.4400	291.2551	75.0003	236.2534	328.7565	775770.7200	830.0413	167.5017
5	17:08:20	873691.3700	225.0030	62.5002	215.0028	367.5081	777769.7900	805.0389	197.5023
X		871356.0700	263.0042	64.0002	229.5032	359.2578	778017.4800	843.0427	212.0028
%RSD		0.494	12.055	10.554	8.461	5.538	0.184	5.126	15.475

Run	Time	135Ba	137Ba	159Tb	203Tl	205Tl	206Pb	207Pb	208Pb
1	17:05:36	34912.9820	60763.2250	1216068.0000	411.2602	967.5562	107377.3700	88307.9310	221107.4000
2	17:06:19	35570.7550	61614.4410	1220561.9000	440.0116	1008.8111	108124.4300	89040.6670	221461.6300
3	17:06:59	35528.0740	61662.2930	1203694.8000	390.0091	982.5579	108674.0100	89535.9310	223078.9200
4	17:07:40	34955.6600	60967.2070	1207055.3000	447.5120	1176.3330	107364.7000	88070.4380	219798.4500
5	17:08:20	34486.2110	61800.8140	1205474.1000	397.5095	942.5533	105589.7400	87176.1080	216978.4800
X		35090.7360	61361.5960	1210570.8000	417.2605	1015.5623	107426.0500	88426.2150	220484.9700
%RSD		1.304	0.756	0.607	6.112	9.160	1.084	1.029	1.035

Run	Time	209Bi	220Bkg
1	17:05:36	855625.8100	5.0000
2	17:06:19	852767.6600	0.0000
3	17:06:59	847464.1300	2.5000
4	17:07:40	846267.4500	0.0000
5	17:08:20	848252.3400	2.5000
X		850075.4800	2.0000
%RSD		0.466	104.583

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User Pre-dilution: 1.00

Run	Time	6Li	9Be	23Na	24Mg	25Mg	26Mg	27Al	39K
1	17:10:02	262167.5400	550.8515	165843.9900	T2017119.8000	243063.8500	273077.1400	T45143686.0000	T2209346.0000
2	17:10:42	264023.1000	601.6884	T177265.2000	T2083824.1000	246770.4300	268713.6800	T45365317.0000	T2233969.6000
3	17:11:22	265992.6000	581.6870	169381.5900	T2095823.3000	249839.8900	276223.3200	T45566101.0000	T2250247.3000
4	17:12:01	267630.4800	563.3524	169631.6000	T2110279.1000	249278.4400	274652.6700	T45285492.0000	T2247549.0000
5	17:12:41	268184.5400	523.3498	T173740.5500	T2028552.2000	243851.3600	270226.4400	T45016958.0000	T2220402.8000
X		265599.6500	564.1858	T171172.5900	T2067119.7000	246560.7900	272578.6500	T45275511.0000	T2232302.9000
%RSD		0.945	5.287	T2.575	T2.017	1.246	1.135	T0.464	T0.784

Run	Time	44Ca	45Sc	47Ti	51V	52Cr	54Fe	55Mn	56Fe
1	17:10:02	162876.3200	475196.8800	43148.9210	103901.2100	72693.1810	1467472.6000	T2824120.6000	T24739458.0000
2	17:10:42	164872.5000	473307.5300	43633.9370	104463.1800	73348.8890	1482528.8000	T2866971.2000	T24960023.0000
3	17:11:22	166851.3100	479684.6100	43523.3610	105382.1400	73578.3990	1507384.9000	T2884600.9000	T25169370.0000
4	17:12:01	163832.2800	475851.4500	42369.9400	103815.1500	73497.6920	1469035.4000	T2861646.2000	T25140469.0000
5	17:12:41	162320.6300	478800.9000	42613.6780	104369.5100	72425.8690	1468034.9000	T2852456.0000	T24939148.0000
X		164150.6100	476568.2700	43057.9670	104386.2400	73108.8060	1478891.3000	T2857959.0000	T24989694.0000
%RSD		1.094	0.552	1.286	0.598	0.707	1.157	T0.778	T0.696

Run	Time	57Fe	59Co	60Ni	63Cu	65Cu	66Zn	75As	78Se
1	17:10:02	580069.8400	41412.6450	13275.5660	458128.5100	221261.4100	225474.6100	2417.8507	720.0311
2	17:10:42	577612.6600	41442.7950	13578.5540	467014.4600	227711.7200	225395.0000	2411.1821	725.0315
3	17:11:22	587630.4600	42181.4870	13568.5370	466383.0300	227480.5400	225921.4700	2344.4964	774.2026
4	17:12:01	582388.4700	42204.1010	13618.6190	463591.0200	226527.6000	224136.7400	2448.6930	727.5318
5	17:12:41	578755.5100	41317.1730	13418.2940	459229.1800	220812.2300	223009.6000	2440.3573	706.6966
X		581291.3900	41711.6400	13491.9140	462869.2400	224758.7000	224787.4800	2412.5159	730.6987
%RSD		0.682	1.059	1.059	0.876	1.526	0.532	1.702	3.506

Run	Time	82Se	83Kr	89Y	94Mo	95Mo	96Mo	97Mo	98Mo
1	17:10:02	115.0008	67.5003	750766.2500	3703.3227	572.5197	1362.6114	400.0096	1035.0643
2	17:10:42	125.8343	79.1670	751123.9300	4106.0113	557.5187	1237.5919	350.0074	947.5539
3	17:11:22	103.3340	66.6669	754349.1500	3913.4187	587.5207	1222.5897	322.5062	912.5500
4	17:12:01	93.3339	74.1670	757425.2800	4256.0866	565.0192	1222.5897	452.5123	982.5579
5	17:12:41	103.3340	65.8336	755395.3500	3963.4423	590.0209	1270.0968	322.5062	960.0553
X		108.1674	70.6670	753811.9900	3988.4563	574.5198	1263.0959	369.5083	967.5563
%RSD		11.561	8.187	0.377	5.214	2.450	4.664	15.200	4.698

Run	Time	103Rh	107Ag	108Mo O	109Ag	111Cd	115In	118Sn	121Sb
1	17:10:02	856604.0600	581.2703	95.0005	540.0175	586.2706	769242.6800	1172.5825	502.5152
2	17:10:42	863651.2700	502.5152	42.5001	473.7635	652.5256	768014.2600	1305.1022	467.5131
3	17:11:22	859503.5400	566.2692	90.0005	510.0156	618.7730	772783.9100	1235.0915	430.0111
4	17:12:01	868088.7500	561.2689	92.5005	496.2648	595.0212	777117.9900	1217.5889	520.0162
5	17:12:41	875289.2200	506.2654	75.0003	501.2651	588.7708	781536.4200	1215.0886	490.0144
X		864627.3700	543.5178	79.0004	504.2653	608.2722	773739.0500	1229.0907	482.0140
%RSD		0.852	6.714	27.642	4.770	4.583	0.726	3.931	7.219

Run	Time	135Ba	137Ba	159Tb	203Tl	205Tl	206Pb	207Pb	208Pb
1	17:10:02	50673.6020	88694.5040	1199870.2000	441.2617	1113.8244	192336.7800	159073.9200	399423.3000
2	17:10:42	50915.0670	89361.5740	1192814.2000	445.0119	1083.8205	194066.1900	159382.2200	399294.8600
3	17:11:22	52077.2150	90061.5490	1198385.0000	461.2628	1200.0864	192454.4500	160651.2500	399798.1500
4	17:12:01	50930.1590	88168.9720	1208553.5000	450.0122	1198.8362	196497.1700	161940.8500	403007.3200
5	17:12:41	49795.8340	88828.4190	1212246.6000	448.7621	1145.0787	193777.0800	159708.3800	400694.7100
X		50878.3750	89023.0040	1202373.9000	449.2621	1148.3292	193826.3400	160151.3200	400443.6700
%RSD		1.601	0.808	0.656	1.676	4.481	0.867	0.726	0.383

Run	Time	209Bi	220Bkg
1	17:10:02	839199.7200	0.0000
2	17:10:42	841674.0900	0.0000
3	17:11:22	846019.0200	2.5000
4	17:12:01	848920.5200	5.0000
5	17:12:41	858982.4500	0.0000
X		846959.1600	1.5000
%RSD		0.910	149.071

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User Pre-dilution: 1.00

Run	Time	6Li	9Be	23Na	24Mg	25Mg	26Mg	27Al	39K
1	17:14:23	265460.1900	349.1740	80456.5290	T 1188559.9000	143830.6100	157061.2800	T 32259548.0000	T 1181468.0000
2	17:15:02	267715.6500	376.6752	82983.6300	1212266.8000	147671.9300	161948.5000	T 32441366.0000	T 1208501.2000
3	17:15:42	267964.2900	350.0074	83236.1290	1235807.8000	150522.2500	163595.1900	T 32936654.0000	T 1211550.9000
4	17:16:22	268331.6600	335.8401	84910.3940	1221206.9000	147656.6600	160837.2800	T 32674923.0000	T 1214111.2000
5	17:17:01	270611.9800	374.1751	82365.0380	T 1222715.2000	145921.5000	161902.6200	T 32431622.0000	T 1201774.3000
X		268016.7500	357.1743	82790.3440	T 1216111.3000	147120.5900	161068.9700	T 32548822.0000	T 1203481.1000
%RSD		0.685	4.929	1.944	T 1.443	1.680	1.520	T 0.806	T 1.092

Run	Time	44Ca	45Sc	47Ti	51V	52Cr	54Fe	55Mn	56Fe
1	17:14:23	50502.5680	475498.3700	38059.2120	73331.2350	47673.4770	883959.2100	1468819.3000	T 15057506.0000
2	17:15:02	52326.2680	480482.4100	37438.9120	74241.7440	47092.6880	890271.0500	1491791.8000	T 15430825.0000
3	17:15:42	51234.5160	482301.8800	39146.7330	75389.4790	47391.8770	903922.4700	1514230.6000	T 15474261.0000
4	17:16:22	50967.8880	482008.0900	38024.0520	74153.4630	47914.8550	901013.8300	1515575.3000	T 15467050.0000
5	17:17:01	50832.0630	482967.5700	37750.3120	75293.6180	48367.4580	890853.6600	1498233.7000	T 15358756.0000
X		51172.6610	480651.6600	38083.8440	74481.9080	47688.0710	894004.0500	1497730.1000	T 15357680.0000
%RSD		1.361	0.629	1.692	1.157	1.025	0.923	1.276	T 1.133

Run	Time	57Fe	59Co	60Ni	63Cu	65Cu	66Zn	75As	78Se
1	17:14:23	349347.2700	22339.9040	8143.9775	148783.9500	71780.3190	77556.7310	1540.9758	717.5309
2	17:15:02	353635.0600	22886.3840	8434.2661	150881.1500	73545.6120	80067.8120	1557.6456	756.7010
3	17:15:42	357134.6700	22848.7810	8514.3474	151392.8100	72854.5810	79671.5410	1582.6503	725.0315
4	17:16:22	354594.5700	23106.9920	8649.4865	152360.2000	73926.4590	80489.3440	1535.1414	775.0360
5	17:17:01	357565.0500	23405.3220	8326.6579	149964.8300	74024.8270	79878.5090	1548.4772	739.1995
X		354455.3300	22917.4770	8413.7471	150676.5900	73226.3600	79532.7870	1552.9780	742.6998
%RSD		0.932	1.708	2.274	0.907	1.270	1.440	1.198	3.157

Run	Time	82Se	83Kr	89Y	94Mo	95Mo	96Mo	97Mo	98Mo
1	17:14:23	91.6672	79.1670	752696.7900	6249.8428	320.0061	1530.1405	192.5022	517.5161
2	17:15:02	88.3338	70.8336	750455.0000	6314.8918	380.0087	1430.1227	225.0030	622.5233
3	17:15:42	99.1673	70.0003	759895.7100	6460.0029	355.0076	1577.6493	187.5021	580.0202
4	17:16:22	91.6672	67.5003	754081.4700	6057.2006	307.5057	1465.1288	182.5020	550.0181
5	17:17:01	105.8340	79.1670	750078.2400	6379.9413	350.0074	1407.6189	255.0039	580.0202
X		95.3339	73.3337	753441.4400	6292.3759	342.5071	1482.1320	208.5027	570.0196
%RSD		7.433	7.452	0.526	2.428	8.450	4.768	14.798	6.858

Run	Time	103Rh	107Ag	108Mo O	109Ag	111Cd	115In	118Sn	121Sb
1	17:14:23	877602.0400	408.7600	67.5003	300.0054	276.2546	783150.4100	1185.0843	252.5038
2	17:15:02	878161.6400	407.5100	60.0002	351.2574	292.5051	784638.6100	1082.5703	180.0019
3	17:15:42	883194.1100	406.2599	67.5003	343.7571	293.7552	789069.0800	1212.5882	265.0042
4	17:16:22	871039.0900	401.2597	62.5002	353.7575	305.0056	789269.2700	1065.0681	202.5025
5	17:17:01	883124.8100	381.2587	75.0003	352.5075	281.2548	795913.8600	1072.5690	202.5025
X		878624.3400	401.0097	66.5003	340.2570	289.7550	788408.2500	1123.5760	220.5030
%RSD		0.569	2.843	8.655	6.711	3.899	0.632	6.200	16.497

Run	Time	135Ba	137Ba	159Tb	203Tl	205Tl	206Pb	207Pb	208Pb
1	17:14:23	23813.9780	40658.9480	1220806.6000	380.0087	881.2966	87860.7420	70781.8330	177962.6700
2	17:15:02	23217.2980	41339.7850	1214819.0000	395.0094	913.8001	88813.2590	72208.9990	180672.5500
3	17:15:42	23786.3990	42126.2090	1227340.1000	368.7582	902.5489	90023.6430	73603.6200	184275.1600
4	17:16:22	24285.3350	42113.6450	1230055.1000	382.5088	956.3049	88598.4910	72035.0030	182154.2900
5	17:17:01	23127.0470	41465.4070	1223194.2000	396.2594	910.0497	88376.1490	72708.3120	180621.4600
X		23646.0110	41540.7990	1223243.0000	384.5089	912.8000	88734.4570	72267.5530	181137.2300
%RSD		2.017	1.471	0.484	2.967	3.000	0.905	1.425	1.278

Run	Time	209Bi	220Bkg
1	17:14:23	854620.0300	2.5000
2	17:15:02	853425.1300	0.0000
3	17:15:42	862033.4200	0.0000
4	17:16:22	859184.2500	2.5000
5	17:17:01	864833.7400	2.5000
X		858819.3100	1.5000
%RSD		0.563	91.287

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User Pre-dilution: 1.00

Run	Time	6Li	9Be	23Na	24Mg	25Mg	26Mg	27Al	39K
1	17:18:43	266057.9800	466.6797	T 123946.4500	T 7465589.7000	898555.9900	989392.5900	T 40171311.0000	T 1677654.7000
2	17:19:23	267818.8900	485.0141	123904.3400	T 7506689.4000	907240.6600	998386.4000	T 40288457.0000	T 1694810.9000
3	17:20:03	271000.9900	460.8461	123171.0900	T 7375288.5000	895452.0400	985751.6400	T 39929318.0000	T 1711490.1000
4	17:20:42	270337.4500	415.8437	T 129424.2500	T 7499910.3000	901466.5900	989976.1800	T 40258550.0000	T 1717539.4000
5	17:21:22	267703.6100	465.8464	121953.3800	T 7434198.1000	891455.7200	971863.6200	T 40027112.0000	T 1671003.0000
X		268583.7800	458.8460	T 124479.9000	T 7456335.2000	898834.2000	987074.0900	T 40134950.0000	T 1694499.6000
%RSD		0.760	5.608	T 2.313	T 0.722	0.667	0.981	T 0.382	T 1.201

Run	Time	44Ca	45Sc	47Ti	51V	52Cr	54Fe	55Mn	56Fe
1	17:18:43	425347.5900	479142.2000	40907.6600	95987.1460	63546.3680	1383059.4000	T 2944552.7000	T 23342808.0000
2	17:19:23	427261.8900	481556.8400	40613.7280	96447.4150	63193.7020	1395638.2000	T 2955286.2000	T 23596265.0000
3	17:20:03	429510.6800	482487.1600	41482.9940	96809.0720	63694.9960	1401186.4000	T 2969301.0000	T 23660701.0000
4	17:20:42	423197.1500	482616.8500	40231.8820	96111.0620	61906.5950	1380077.9000	T 2969189.7000	T 23467857.0000
5	17:21:22	422329.7700	485834.7400	41101.1090	95514.2590	62752.8890	1372214.0000	T 2938171.0000	T 23174028.0000
X		425529.4200	482327.5600	40867.4750	96173.7910	63018.9100	1386435.2000	T 2955300.2000	T 23448332.0000
%RSD		0.691	0.499	1.163	0.507	1.143	0.851	T 0.478	T 0.836

Run	Time	57Fe	59Co	60Ni	63Cu	65Cu	66Zn	75As	78Se
1	17:18:43	545879.5500	32696.5180	11174.9880	129650.7700	63561.4830	103400.0400	3735.8372	729.1986
2	17:19:23	550165.6000	32653.8510	11307.6670	129932.6100	63385.1470	105349.2200	3950.1026	671.6937
3	17:20:03	548437.0500	32420.4430	11633.1140	131634.0000	64213.9560	105959.3900	3830.0466	757.5344
4	17:20:42	546519.5200	32824.5200	11447.8580	131527.3400	64571.7050	105222.6400	3941.7654	750.8672
5	17:21:22	539461.1400	31750.3700	11385.2720	128917.0200	62949.3630	104610.0000	3709.9923	772.5358
X		546092.5700	32469.1400	11389.7800	130332.3500	63736.3310	104908.2600	3833.5488	736.3659
%RSD		0.745	1.317	1.492	0.920	1.023	0.924	2.920	5.347

Run	Time	82Se	83Kr	89Y	94Mo	95Mo	96Mo	97Mo	98Mo
1	17:18:43	110.8341	87.5005	750239.3200	6294.8766	485.0141	1662.6659	375.0084	807.5391
2	17:19:23	100.8339	74.1670	753540.6800	6537.5634	527.5167	1560.1460	307.5057	827.5411
3	17:20:03	95.8339	87.5005	756419.8100	6279.8653	495.0147	1642.6619	295.0052	755.0342
4	17:20:42	98.3339	60.8336	762142.6600	6637.6424	432.5112	1555.1451	277.5046	795.0379
5	17:21:22	85.8338	82.5004	757813.2800	6319.8956	487.5143	1582.6503	297.5053	825.0408
X		98.3339	78.5004	756031.1500	6413.9687	485.5142	1600.6538	310.5059	802.0386
%RSD		9.167	14.369	0.593	2.542	7.036	3.068	12.123	3.671

Run	Time	103Rh	107Ag	108Mo O	109Ag	111Cd	115In	118Sn	121Sb
1	17:18:43	866791.0300	378.7586	72.5003	372.5083	471.2633	780489.8200	857.5441	285.0049
2	17:19:23	863991.4700	363.7579	67.5003	365.0080	441.2617	774667.3100	892.5478	237.5034
3	17:20:03	869638.5300	426.2609	67.5003	371.2583	438.7616	784249.4000	860.0444	267.5043
4	17:20:42	878200.4300	377.5086	77.5004	365.0080	371.2583	788309.4900	925.0513	260.0041
5	17:21:22	877801.5000	378.7586	75.0003	358.7577	435.0114	786365.5700	912.5500	297.5053
X		871284.5900	385.0089	72.0003	366.5081	431.5112	782816.3200	889.5475	269.5044
%RSD		0.740	6.212	6.211	1.514	8.492	0.690	3.416	8.588

Run	Time	135Ba	137Ba	159Tb	203Tl	205Tl	206Pb	207Pb	208Pb
1	17:18:43	31988.7790	56342.3260	1209611.8000	391.2592	1036.3144	116336.4200	95951.7420	238484.3500
2	17:19:23	32292.4470	55781.0690	1199818.4000	432.5112	1041.3151	115657.0600	94662.1190	238600.0900
3	17:20:03	32520.8330	56581.4380	1204028.2000	441.2617	1078.8198	116648.2300	95959.3290	241591.9600
4	17:20:42	32136.8470	56128.3890	1209416.2000	406.2599	1056.3169	116082.9200	95097.0280	239256.0000
5	17:21:22	32026.4230	56020.1650	1209660.7000	441.2617	1082.5703	114093.2300	92887.3140	236596.6700
X		32193.0660	56170.6770	1206507.1000	422.5107	1059.0673	115763.5700	94911.5060	238905.8100
%RSD		0.677	0.545	0.368	5.350	1.994	0.865	1.330	0.753

Run	Time	209Bi	220Bkg
1	17:18:43	836306.9600	0.0000
2	17:19:23	839387.2800	7.5000
3	17:20:03	843743.4900	0.0000
4	17:20:42	842525.2400	0.0000
5	17:21:22	847273.6400	5.0000
X		841847.3200	2.5000
%RSD		0.498	141.421

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User Pre-dilution: 1.00

Run	Time	6Li	9Be	23Na	24Mg	25Mg	26Mg	27Al	39K
1	17:23:05	266155.1700	22.5000	35711.3540	2325.3244	290.0051	265.0042	29562.3430	34601.6880
2	17:23:44	268531.2700	24.1667	36344.0810	1545.1432	185.0021	265.0042	24699.0480	35344.7970
3	17:24:24	270821.9700	20.8334	36999.4560	1265.0960	165.0016	185.0021	23127.0470	35113.8230
4	17:25:05	276968.2800	21.6667	37853.2770	1195.0857	190.0022	170.0017	20851.0530	36092.9930
5	17:25:45	275456.9000	27.5000	37582.0540	860.0444	120.0009	135.0011	19470.2190	35922.2580
x		271586.7200	23.3334	36898.0450	1438.1387	190.0024	204.0027	23541.9420	35415.1120
%RSD		1.681	11.294	2.388	38.429	32.816	28.709	16.666	1.714

Run	Time	44Ca	45Sc	47Ti	51V	52Cr	54Fe	55Mn	56Fe
1	17:23:05	407.5100	467931.3100	32.5001	995.0594	1130.0766	2983.0338	1057.5671	108096.5700
2	17:23:44	387.5090	478556.1700	45.0001	635.0242	1050.0662	2710.4407	685.0282	106215.1100
3	17:24:24	400.0096	484592.9800	25.0000	442.5118	922.5511	2670.4278	552.5183	107032.9800
4	17:25:05	372.5083	486053.1900	35.0001	377.5086	957.5550	2465.3646	407.5100	105718.8600
5	17:25:45	385.0089	486611.9300	32.5001	742.5331	1127.5763	2560.3933	377.5086	105941.6600
x		390.5092	480749.1100	34.0001	638.5274	1037.5650	2677.9320	616.0264	106601.0400
%RSD		3.489	1.633	21.184	38.719	9.200	7.308	44.761	0.913

Run	Time	57Fe	59Co	60Ni	63Cu	65Cu	66Zn	75As	78Se
1	17:23:05	902.5489	40.0001	272.5045	587.5207	315.0060	1630.1594	25.0000	704.1964
2	17:23:44	817.5401	40.0001	272.5045	537.5173	320.0061	1675.1684	18.3334	709.1968
3	17:24:24	770.0356	30.0001	290.0051	595.0212	335.0067	1767.6875	18.3334	720.8645
4	17:25:05	662.5263	27.5000	252.5038	547.5180	330.0065	1762.6864	17.5000	731.6988
5	17:25:45	695.0290	27.5000	277.5046	597.5214	292.5051	1665.1664	18.3334	731.6988
x		769.5360	33.0001	273.0045	573.0197	318.5061	1700.1736	19.5000	719.5311
%RSD		12.498	19.609	4.949	4.940	5.195	3.628	15.875	1.758

Run	Time	82Se	83Kr	89Y	94Mo	95Mo	96Mo	97Mo	98Mo
1	17:23:05	70.0003	68.3336	738763.9300	25.0000	12.5000	22.5000	2.5000	7.5000
2	17:23:44	85.0004	83.3337	735754.3500	30.0001	7.5000	10.0000	7.5000	12.5000
3	17:24:24	66.6669	75.0003	748863.4400	22.5000	7.5000	7.5000	5.0000	12.5000
4	17:25:05	78.3337	75.8337	747105.6900	32.5001	0.0000	12.5000	2.5000	7.5000
5	17:25:45	68.3336	67.5003	754586.7900	25.0000	0.0000	17.5000	2.5000	5.0000
x		73.6670	74.0003	745014.8400	27.0000	5.5000	14.0000	4.0000	9.0000
%RSD		10.539	8.701	1.030	15.215	98.543	43.006	55.902	37.268

Run	Time	103Rh	107Ag	108Mo O	109Ag	111Cd	115In	118Sn	121Sb
1	17:23:05	895554.7500	32.5001	10.0000	15.0000	3.7500	800457.1500	35.0001	27.5000
2	17:23:44	901116.6000	36.2501	0.0000	35.0001	3.7500	800984.3800	17.5000	42.5001
3	17:24:24	909828.8300	41.2501	5.0000	27.5000	8.7500	810326.0100	32.5001	30.0001
4	17:25:05	912498.4200	40.0001	0.0000	27.5000	2.5000	809572.8100	25.0000	17.5000
5	17:25:45	916212.1700	48.7501	2.5000	21.2500	3.7500	815919.2800	35.0001	25.0000
x		907042.1600	39.7501	3.5000	25.2500	4.5000	807451.9300	29.0001	28.5001
%RSD		0.937	15.309	119.523	29.785	54.149	0.820	26.290	31.991

Run	Time	135Ba	137Ba	159Tb	203Tl	205Tl	206Pb	207Pb	208Pb
1	17:23:05	17.5000	32.5001	1238545.6000	35.0001	92.5005	125.0009	92.5005	265.0042
2	17:23:44	10.0000	30.0001	1242762.1000	51.2502	130.0010	87.5005	82.5004	195.0023
3	17:24:24	22.5000	32.5001	1243397.2000	73.7503	162.5016	110.0007	95.0005	235.0033
4	17:25:05	10.0000	27.5000	1243405.9000	91.2505	188.7521	62.5002	67.5003	160.0015
5	17:25:45	7.5000	20.0000	1247234.8000	70.0003	142.5012	75.0003	87.5005	175.0018
x		13.5000	28.5000	1243069.1000	64.2503	143.2513	92.0005	85.0004	206.0026
%RSD		46.481	18.190	0.248	33.714	25.152	27.672	12.820	21.048

Run	Time	209Bi	220Bkg
1	17:23:05	878944.3100	0.0000
2	17:23:44	886331.1700	0.0000
3	17:24:24	887927.1500	0.0000
4	17:25:05	881927.4100	2.5000
5	17:25:45	890408.3800	2.5000
x		885107.6800	1.0000
%RSD		0.523	136.931

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User Pre-dilution: 1.00

Run	Time	6Li	9Be	23Na	24Mg	25Mg	26Mg	27Al	39K
1	17:27:25	243479.0400	↹1872291.5000	↹82588196.0000	↹45707179.0000	↹5557363.8000	↹5928161.5000	↹124017300.0000	↹30530679.0000
2	17:28:05	248227.7700	↹1895034.9000	↹84415222.0000	↹45935117.0000	↹5598334.0000	↹6012572.0000	↹126237080.0000	↹31257791.0000
3	17:28:45	248708.4500	↹1907907.1000	↹84066741.0000	↹45903182.0000	↹5580274.9000	↹5961644.1000	↹125966010.0000	↹31306398.0000
4	17:29:25	248036.3600	↹1926963.7000	↹84511195.0000	↹46161449.0000	↹5621103.1000	↹6055863.1000	↹126898650.0000	↹31510641.0000
5	17:30:04	248385.7000	↹1903321.3000	↹82968521.0000	↹46089760.0000	↹5626807.2000	↹6103497.6000	↹124926170.0000	↹31060350.0000
x		247367.4600	↹1901103.7000	↹83709975.0000	↹45959337.0000	↹5596776.6000	↹6012347.6000	↹125609040.0000	↹31133172.0000
%RSD		0.884	↹1.048	↹1.047	↹0.385	↹0.515	↹1.172	↹0.906	↹1.198

Run	Time	44Ca	45Sc	47Ti	51V	52Cr	54Fe	55Mn	56Fe
1	17:27:25	1470838.3000	437188.6500	70.0003	↹8266015.6000	↹7733600.8000	↹4152967.6000	↹10121943.0000	↹66654199.0000
2	17:28:05	1481375.7000	443869.5500	72.5003	↹8360255.8000	↹7817941.9000	↹4192086.1000	↹10227665.0000	↹67525914.0000
3	17:28:45	1499706.8000	442436.2700	72.5003	↹8372418.4000	↹7847537.0000	↹4220693.5000	↹10358386.0000	↹68235780.0000
4	17:29:25	↹1487379.7000	447461.7200	67.5003	↹8451861.2000	↹7906507.0000	↹4223349.7000	↹10378879.0000	↹68154883.0000
5	17:30:04	1480154.5000	449221.4600	87.5005	↹8374374.5000	↹7879567.3000	↹4164217.4000	↹10289452.0000	↹67758314.0000
x		↹1483891.0000	444035.5300	74.0003	↹8364985.1000	↹7837030.8000	↹4190662.8000	↹10275265.0000	↹67665818.0000
%RSD		↹0.717	1.057	10.576	↹0.791	↹0.851	↹0.763	↹1.016	↹0.939

Run	Time	57Fe	59Co	60Ni	63Cu	65Cu	66Zn	75As	78Se
1	17:27:25	1623707.9000	↹10391048.0000	↹2271801.9000	↹5249731.8000	↹2528254.9000	1473559.6000	1117689.0000	30058.2790
2	17:28:05	1628321.7000	↹10563091.0000	↹2292763.8000	↹5302944.5000	↹2537987.9000	1488620.0000	1123452.2000	30493.1880
3	17:28:45	1636051.6000	↹10607940.0000	↹2305446.5000	↹5326650.2000	↹2583470.9000	1496879.6000	1135451.1000	30614.4650
4	17:29:25	1643103.2000	↹10662182.0000	↹2311674.8000	↹5344929.9000	↹2605105.0000	1501676.2000	1131725.0000	30430.4600
5	17:30:04	1624852.1000	↹10618501.0000	2355004.6000	↹5306337.8000	↹2561758.9000	1493827.8000	1134042.2000	30316.7130
x		1631207.3000	↹10568552.0000	↹2307338.3000	↹5306118.8000	↹2563315.5000	1490912.7000	1128471.9000	30382.6210
%RSD		0.504	↹0.996	↹1.330	↹0.674	↹1.238	0.724	0.675	0.694

Run	Time	82Se	83Kr	89Y	94Mo	95Mo	96Mo	97Mo	98Mo
1	17:27:25	12235.6430	85.8338	656296.9300	197.5023	165.0016	280.0047	105.0007	335.0067
2	17:28:05	12354.9850	101.6673	655748.6900	200.0024	145.0013	292.5051	117.5008	317.5061
3	17:28:45	12489.3520	92.5005	659041.3500	182.5020	137.5011	340.0069	80.0004	305.0056
4	17:29:25	12432.6010	77.5004	657974.2700	155.0014	202.5025	342.5070	85.0004	295.0052
5	17:30:04	12330.7830	70.0003	663094.7300	222.5030	225.0030	310.0058	105.0007	250.0038
x		12368.6730	85.5004	658431.1900	191.5022	175.0019	313.0059	98.5006	300.5055
%RSD		0.788	14.499	0.443	13.009	21.500	8.919	15.810	10.628

Run	Time	103Rh	107Ag	108Mo O	109Ag	111Cd	115In	118Sn	121Sb
1	17:27:25	771418.1500	689010.8500	90347.1160	664062.4100	1411728.3000	703027.0600	62.5002	↹3842148.6000
2	17:28:05	770632.7300	701554.1100	91171.0160	672377.3500	1415586.8000	702579.0400	75.0003	↹3841794.2000
3	17:28:45	772302.1700	710626.6000	91931.8060	681924.5400	1421552.2000	704998.6400	82.5004	↹3868253.1000
4	17:29:25	767442.5100	714989.6500	92369.1020	686277.2600	1421687.7000	712606.6900	82.5004	↹3889227.8000
5	17:30:04	768911.6200	700658.2400	92639.5790	668471.0800	1420699.8000	711674.3500	105.0007	↹3844173.5000
x		770141.4400	703367.8900	91691.7240	674622.5300	1418251.0000	706977.1600	81.5004	↹3857119.4000
%RSD		0.254	1.430	1.019	1.374	0.312	0.681	18.984	↹0.547

Run	Time	135Ba	137Ba	159Tb	203Tl	205Tl	206Pb	207Pb	208Pb
1	17:27:25	745896.7600	1333784.9000	1097423.8000	↹5430689.6000	↹13250659.0000	↹4400486.0000	↹3784043.3000	↹9523476.3000
2	17:28:05	752142.4400	1342082.2000	1101653.6000	↹5513345.9000	↹13447279.0000	↹4397440.9000	↹3794151.8000	↹9501797.0000
3	17:28:45	758422.6600	1343211.9000	1102040.1000	↹5464289.7000	↹13404927.0000	↹4403178.4000	↹3787090.7000	↹9594138.2000
4	17:29:25	756988.1100	1350615.1000	1100284.2000	↹5528270.0000	↹13419433.0000	↹4424494.4000	↹3792851.1000	↹9602232.3000
5	17:30:04	758572.9600	1335313.0000	1091260.1000	↹5428598.9000	↹13255912.0000	↹4377387.4000	↹3724377.3000	↹9489256.9000
x		754404.5800	1341001.4000	1098532.3000	↹5473038.8000	↹13355642.0000	↹4400597.4000	↹3776502.8000	↹9542180.2000
%RSD		0.719	0.504	0.405	↹0.843	↹0.709	↹0.381	↹0.779	↹0.552

Run	Time	209Bi	220Bkg
1	17:27:25	720044.5700	0.0000
2	17:28:05	725844.2700	12.5000
3	17:28:45	728305.7500	5.0000
4	17:29:25	729468.6600	7.5000
5	17:30:04	725106.5000	0.0000
x		725753.9500	5.0000
%RSD		0.503	106.066

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User Pre-dilution: 1.00

Run	Time	6Li	9Be	23Na	24Mg	25Mg	26Mg	27Al	39K
1	17:32:19	272460.7800	338.3402	35455.2640	5136.5826	705.0298	700.0294	14690.4370	38611.7450
2	17:32:58	274042.2200	295.8386	33582.5310	4050.9844	535.0172	480.0138	12289.0550	36999.4560
3	17:33:38	278165.5200	229.1698	31153.1220	3405.6958	435.0114	420.0106	10121.1430	36826.1910
4	17:34:18	279946.1800	180.8353	29519.6920	2535.3856	285.0049	320.0061	8626.9632	36354.1250
5	17:34:57	280697.5000	143.3346	27871.5320	1960.2305	235.0033	235.0033	6575.0929	35932.3010
X		277062.4400	237.5037	31516.4280	3417.7758	439.0133	431.0127	10460.5380	36944.7640
%RSD		1.314	33.762	9.675	36.598	43.419	41.118	30.158	2.764

Run	Time	44Ca	45Sc	47Ti	51V	52Cr	54Fe	55Mn	56Fe
1	17:32:19	330.0065	468891.8500	15.0000	1937.7253	1770.1880	2965.5276	1187.5846	100816.1700
2	17:32:58	277.5046	478602.4700	27.5000	1507.6364	1710.1755	2737.9497	1057.5671	101294.4100
3	17:33:38	375.0084	478261.1900	35.0001	1077.5697	1510.1368	2635.4167	797.5382	101271.6400
4	17:34:18	240.0035	484051.5800	27.5000	852.5436	1587.6512	2695.4359	677.5275	100201.3200
5	17:34:57	232.5032	491899.1900	7.5000	1052.5665	1435.1236	2697.9367	515.0159	100057.1000
X		291.0053	480341.2600	22.5000	1285.6083	1602.6550	2746.4533	847.0467	100728.1300
%RSD		20.891	1.760	49.065	33.898	8.628	4.654	32.424	0.577

Run	Time	57Fe	59Co	60Ni	63Cu	65Cu	66Zn	75As	78Se
1	17:32:19	862.5446	1070.0687	337.5068	1495.1341	530.0169	407.5100	248.3370	777.5363
2	17:32:58	815.0399	880.0465	305.0056	1305.1022	492.5146	380.0087	213.3361	747.5335
3	17:33:38	857.5441	720.0311	245.0036	1235.0915	440.0116	305.0056	174.1685	740.0329
4	17:34:18	730.0320	590.0209	215.0028	1110.0739	320.0061	282.5048	144.1679	726.6984
5	17:34:57	785.0370	340.0069	170.0017	1000.0600	290.0051	295.0052	131.6677	786.7038
X		810.0395	720.0348	254.5041	1229.0924	414.5108	334.0068	182.3354	755.7010
%RSD		6.780	38.629	26.527	15.395	25.448	16.759	26.598	3.368

Run	Time	82Se	83Kr	89Y	94Mo	95Mo	96Mo	97Mo	98Mo
1	17:32:19	85.0004	65.8336	717163.8400	20.0000	5.0000	2.5000	5.0000	5.0000
2	17:32:58	65.8336	75.0003	725724.4800	22.5000	10.0000	10.0000	5.0000	10.0000
3	17:33:38	72.5003	66.6669	739273.8100	15.0000	10.0000	12.5000	10.0000	10.0000
4	17:34:18	74.1670	68.3336	742164.5900	17.5000	7.5000	10.0000	10.0000	12.5000
5	17:34:57	84.1671	59.1669	745754.8600	27.5000	12.5000	7.5000	2.5000	10.0000
X		76.3337	67.0003	734016.3200	20.5000	9.0000	8.5000	6.5000	9.5000
%RSD		10.685	8.463	1.647	23.458	31.672	44.605	51.602	28.828

Run	Time	103Rh	107Ag	108Mo O	109Ag	111Cd	115In	118Sn	121Sb
1	17:32:19	873768.9000	320.0061	12.5000	273.7545	158.7515	778106.6700	15.0000	1627.6589
2	17:32:58	888892.3800	258.7540	12.5000	252.5038	122.5009	789126.6700	7.5000	1317.6042
3	17:33:38	892302.0100	227.5031	15.0000	231.2532	91.2505	791916.0800	12.5000	1162.5811
4	17:34:18	901141.6000	222.5030	10.0000	225.0030	67.5003	797585.4100	30.0001	917.5505
5	17:34:57	899958.4000	155.0014	10.0000	108.7507	58.7502	798859.1800	27.5000	780.0365
X		891212.6600	236.7535	12.0000	218.2531	99.7507	791118.8000	18.5000	1161.0862
%RSD		1.237	25.331	17.430	29.391	41.310	1.049	52.858	28.781

Run	Time	135Ba	137Ba	159Tb	203Tl	205Tl	206Pb	207Pb	208Pb
1	17:32:19	95.0005	120.0009	1189611.1000	1042.5652	2485.3706	575.0198	592.5211	1322.6049
2	17:32:58	57.5002	120.0009	1211481.4000	828.7912	1980.2353	492.5146	480.0138	1205.0871
3	17:33:38	60.0002	100.0006	1221287.6000	590.0209	1563.8967	370.0082	335.0067	957.5550
4	17:34:18	37.5001	77.5004	1221924.0000	527.5167	1316.3540	372.5083	310.0058	790.0375
5	17:34:57	62.5002	57.5002	1227121.1000	413.7603	1028.8135	252.5038	195.0023	520.0162
X		62.5003	95.0006	1214285.0000	680.5309	1674.9340	412.5110	382.5099	959.0602
%RSD		33.106	28.768	1.228	37.161	34.146	30.137	40.561	33.546

Run	Time	209Bi	220Bkg
1	17:32:19	852017.7100	2.5000
2	17:32:58	860272.1100	0.0000
3	17:33:38	866167.1400	0.0000
4	17:34:18	876021.7800	2.5000
5	17:34:57	883458.8400	0.0000
X		867587.5100	1.0000
%RSD		1.436	136.931

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User Pre-dilution: 1.00

Run	Time	6Li	9Be	23Na	24Mg	25Mg	26Mg	27Al	39K
1	17:36:39	289646.0400	93.3339	26384.2020	1275.0975	230.0032	160.0015	3473.2236	35854.4670
2	17:37:19	291342.8400	74.1670	26296.4250	1125.0759	190.0022	180.0019	3550.7563	35241.8620
3	17:37:59	293075.3700	93.3339	26456.9320	1235.0915	175.0018	155.0014	3448.2133	36195.9380
4	17:38:38	296277.3200	90.0005	25671.9820	1070.0687	160.0015	160.0015	3115.5823	35492.9240
5	17:39:18	294088.4700	73.3337	25155.4100	945.0536	140.0012	145.0013	2885.4995	35804.2520
X		292886.0100	84.8338	25992.9900	1130.0775	179.0020	160.0015	3294.6550	35717.8890
%RSD		0.868	12.039	2.163	11.699	18.986	7.967	8.592	1.021

Run	Time	44Ca	45Sc	47Ti	51V	52Cr	54Fe	55Mn	56Fe
1	17:36:39	290.0051	493599.1700	30.0001	992.5591	1177.5832	3195.6126	280.0047	100818.7000
2	17:37:19	240.0035	496016.5600	45.0001	747.5335	1107.5736	3093.0739	310.0058	101178.0100
3	17:37:59	255.0039	505394.3600	47.5001	542.5177	1112.5743	3068.0647	275.0045	101512.0400
4	17:38:38	230.0032	503057.9100	32.5001	557.5187	1082.5703	3058.0610	275.0045	102253.5200
5	17:39:18	265.0042	503185.2600	35.0001	650.0254	1170.0821	3140.5917	275.0045	102511.6600
X		256.0040	500250.6500	38.0001	698.0309	1130.0767	3111.0808	283.0048	101654.7900
%RSD		9.098	1.025	20.490	26.360	3.682	1.833	5.388	0.702

Run	Time	57Fe	59Co	60Ni	63Cu	65Cu	66Zn	75As	78Se
1	17:36:39	765.0351	235.0033	130.0010	770.0356	237.5034	1355.1102	76.6670	730.0320
2	17:37:19	795.0379	215.0028	117.5008	805.0389	282.5048	1405.1185	80.0004	746.7001
3	17:37:59	772.5358	205.0025	115.0008	797.5382	215.0028	1385.1151	74.1670	817.5401
4	17:38:38	742.5331	180.0019	117.5008	720.0311	287.5050	1365.1118	62.5002	798.3716
5	17:39:18	760.0347	150.0014	60.0002	730.0320	262.5041	1412.6197	70.0003	697.5292
X		767.0353	197.0024	108.0007	764.5351	257.0040	1384.6150	72.6670	758.0346
%RSD		2.497	16.701	25.431	5.037	11.922	1.790	9.295	6.510

Run	Time	82Se	83Kr	89Y	94Mo	95Mo	96Mo	97Mo	98Mo
1	17:36:39	80.8337	67.5003	747856.2400	25.0000	12.5000	10.0000	10.0000	2.5000
2	17:37:19	70.8336	85.8338	754709.7000	17.5000	2.5000	15.0000	5.0000	2.5000
3	17:37:59	68.3336	57.5002	761308.8700	17.5000	12.5000	10.0000	0.0000	2.5000
4	17:38:38	79.1670	74.1670	759961.3000	25.0000	15.0000	15.0000	10.0000	10.0000
5	17:39:18	97.5006	86.6671	764822.2700	15.0000	30.0001	12.5000	2.5000	7.5000
X		79.3337	74.3337	757731.6800	20.0000	14.5000	12.5000	5.5000	5.0000
%RSD		14.449	16.674	0.872	23.385	68.316	20.000	81.312	70.711

Run	Time	103Rh	107Ag	108Mo O	109Ag	111Cd	115In	118Sn	121Sb
1	17:36:39	908816.8300	90.0005	10.0000	66.2503	47.5001	804903.9000	112.5008	492.5146
2	17:37:19	913469.1300	87.5005	0.0000	68.7503	33.7501	812657.4800	107.5007	572.5197
3	17:37:59	916682.4100	92.5005	5.0000	73.7503	33.7501	813152.4500	135.0011	400.0096
4	17:38:38	924850.2500	96.2506	12.5000	113.7508	26.2500	816802.3200	120.0009	362.5079
5	17:39:18	929792.5000	70.0003	12.5000	51.2502	38.7501	822710.8100	130.0010	332.5066
X		918722.2200	87.2505	8.0000	74.7504	36.0001	814045.3900	121.0009	432.0117
%RSD		0.927	11.657	67.748	31.249	21.740	0.798	9.536	22.903

Run	Time	135Ba	137Ba	159Tb	203Tl	205Tl	206Pb	207Pb	208Pb
1	17:36:39	12.5000	45.0001	1233731.2000	241.2535	611.2724	177.5019	150.0014	397.5095
2	17:37:19	10.0000	22.5000	1233151.6000	232.5032	558.7687	195.0023	117.5008	342.5070
3	17:37:59	17.5000	45.0001	1246154.7000	216.2528	501.2651	175.0018	145.0013	357.5077
4	17:38:38	17.5000	27.5000	1240337.6000	150.0014	451.2622	152.5014	127.5010	300.0054
5	17:39:18	22.5000	15.0000	1266302.5000	168.7517	415.0103	105.0007	112.5008	240.0035
X		16.0000	31.0001	1243935.5000	201.7525	507.5158	161.0016	130.5010	327.5066
%RSD		30.459	43.653	1.092	19.955	15.625	21.589	12.664	18.345

Run	Time	209Bi	220Bkg
1	17:36:39	877736.4000	2.5000
2	17:37:19	876844.4200	0.0000
3	17:37:59	886376.9200	0.0000
4	17:38:38	888387.5600	0.0000
5	17:39:18	890204.4700	2.5000
X		883909.9500	1.0000
%RSD		0.701	136.931

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User Pre-dilution: 1.00

Run	Time	6Li	9Be	23Na	24Mg	25Mg	26Mg	27Al	39K
1	17:41:00	288184.1400	1690.1714	T 1843863.4000	995033.7100	122422.6800	131301.3200	114174.3200	742898.3500
2	17:41:40	289796.1200	1778.5231	T 1888494.0000	1023806.0000	124026.1300	133917.4600	117213.5800	747924.4700
3	17:42:19	297081.8900	1845.2043	T 1958392.1000	1059971.4000	127513.1700	138155.8100	117345.4200	763222.6100
4	17:42:59	296755.5600	1877.7115	T 1961501.4000	1058336.9000	129153.1400	136996.9100	119351.1000	774330.5700
5	17:43:39	297691.4000	1748.5168	T 1961344.3000	T 1074071.4000	128097.0200	136824.1000	118904.7900	770361.8200
X		293901.8200	1788.0254	T 1922719.0000	T 1042243.9000	126242.4300	135439.1200	117397.8500	759747.5600
%RSD		1.542	4.198	T 2.808	T 3.092	2.276	2.061	1.731	1.816

Run	Time	44Ca	45Sc	47Ti	51V	52Cr	54Fe	55Mn	56Fe
1	17:41:00	30106.7870	493153.9400	40.0001	34644.3650	13994.2400	37782.9590	9287.6728	702546.4600
2	17:41:40	31484.3640	503908.3000	37.5001	34892.8980	14267.2030	39043.7510	9402.8018	721704.3400
3	17:42:19	31941.0970	505699.5700	60.0002	35402.5410	14580.2440	38996.0280	9114.9822	726957.8400
4	17:42:59	32683.9690	512693.0800	40.0001	36087.9720	14642.8530	39556.1590	9683.1225	731331.8300
5	17:43:39	33195.9870	517029.0500	45.0001	35063.6130	14692.9420	39016.1220	9437.8413	725536.6300
X		31882.4410	506496.7900	44.5001	35218.2780	14435.4960	38879.0040	9385.2841	721615.4200
%RSD		3.738	1.806	20.411	1.587	2.059	1.686	2.225	1.552

Run	Time	57Fe	59Co	60Ni	63Cu	65Cu	66Zn	75As	78Se
1	17:41:00	15361.6460	8624.4606	2245.3024	10449.0470	5239.1464	3358.1765	1058.4005	1992.7382
2	17:41:40	15093.6570	9300.1867	2205.2918	10794.4870	5141.5857	3538.2510	1015.8953	2085.2609
3	17:42:19	15284.0030	9019.8789	2390.3428	10696.8610	4986.4915	3565.7627	1056.7337	2034.4150
4	17:42:59	15629.6430	9290.1756	2357.8335	10579.2110	5196.6198	3563.2616	1075.0693	2087.7615
5	17:43:39	15456.8220	9640.5732	2197.7898	10999.7550	5056.5336	3378.1846	1014.2284	1995.2388
X		15365.1540	9175.0550	2279.3121	10703.8720	5124.0754	3480.7273	1044.0654	2039.0829
%RSD		1.296	4.125	3.910	1.961	2.007	2.975	2.628	2.273

Run	Time	82Se	83Kr	89Y	94Mo	95Mo	96Mo	97Mo	98Mo
1	17:41:00	560.0188	78.3337	750550.5600	30.0001	17.5000	30.0001	17.5000	5.0000
2	17:41:40	603.3552	72.5003	761456.4900	37.5001	20.0000	20.0000	15.0000	27.5000
3	17:42:19	600.0216	65.8336	760349.4300	50.0001	7.5000	27.5000	10.0000	27.5000
4	17:42:59	620.0231	85.0004	770134.6900	30.0001	5.0000	10.0000	7.5000	10.0000
5	17:43:39	585.0205	67.5003	766955.6000	35.0001	12.5000	17.5000	5.0000	15.0000
X		593.6878	73.8337	761889.3500	36.5001	12.5000	21.0000	11.0000	17.0000
%RSD		3.800	10.725	0.984	22.509	50.990	38.207	47.128	60.097

Run	Time	103Rh	107Ag	108Mo O	109Ag	111Cd	115In	118Sn	121Sb
1	17:41:00	914759.8600	6307.3861	70.0003	6105.9862	1225.0900	813166.1900	122.5009	6367.4317
2	17:41:40	923368.6800	6603.8656	75.0003	6373.6865	1258.8451	815608.4500	125.0009	6695.1885
3	17:42:19	923017.8100	6638.8934	97.5006	6406.2114	1267.5964	812687.7200	147.5013	6495.0301
4	17:42:59	933594.4100	6706.4475	72.5003	6393.7018	1256.3447	829193.5500	120.0009	6775.2531
5	17:43:39	935328.6700	6443.7403	97.5006	6196.0526	1295.1006	829601.2900	142.5012	6632.6385
X		926013.8900	6540.0666	82.5004	6295.1277	1260.5954	820051.4400	131.5011	6593.1084
%RSD		0.915	2.477	16.735	2.158	1.992	1.049	9.563	2.466

Run	Time	135Ba	137Ba	159Tb	203Tl	205Tl	206Pb	207Pb	208Pb
1	17:41:00	6507.5399	11512.9470	1248664.5000	4648.7963	11382.7690	3825.8780	3388.1886	8366.6980
2	17:41:40	6792.7674	11580.5410	1251591.2000	4780.1206	11666.9110	3913.4187	3638.2941	8419.2509
3	17:42:19	6652.6544	11492.9200	1251637.4000	4746.3513	11517.9540	3625.7886	3590.7735	8702.0412
4	17:42:59	6750.2328	11593.0580	1252443.7000	4932.7095	11895.9850	3753.3451	3508.2383	8376.7080
5	17:43:39	6617.6265	11825.8850	1263240.9000	4911.4469	11639.3730	3843.3861	3505.7373	8554.3884
X		6664.1642	11601.0700	1253515.5000	4803.8849	11620.5980	3792.3633	3526.2463	8483.8173
%RSD		1.691	1.144	0.449	2.465	1.641	2.878	2.710	1.687

Run	Time	209Bi	220Bkg
1	17:41:00	882228.1300	0.0000
2	17:41:40	883180.2500	5.0000
3	17:42:19	883784.5600	0.0000
4	17:42:59	881267.8000	0.0000
5	17:43:39	889128.1500	0.0000
X		883917.7800	1.0000
%RSD		0.347	223.607

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User Pre-dilution: 1.00

Run	Time	6Li	9Be	23Na	24Mg	25Mg	26Mg	27Al	39K
1	17:45:21	274461.5200	422.5107	79989.5660	T 1210857.7000	144512.2600	157239.5900	T 33600925.0000	T 1544258.1000
2	17:46:01	272472.8300	433.3446	79684.1610	T 1216432.1000	144970.1100	157800.0400	T 33238883.0000	T 1540367.5000
3	17:46:41	275530.9600	420.8440	81938.3630	T 1232092.5000	150109.9100	158233.1400	T 34090941.0000	T 1560698.9000
4	17:47:21	272063.1000	411.6768	82602.3700	T 1236415.1000	145728.1600	161872.0300	T 33566283.0000	T 1559983.5000
5	17:48:03	271849.6400	423.3441	77468.4150	1186108.0000	145595.8700	156093.3400	T 33304677.0000	T 1534217.9000
x		273275.6100	422.3440	80336.5750	T 1216381.1000	146183.2600	158247.6300	T 33560342.0000	T 1547905.2000
%RSD		0.597	1.827	2.526	T 1.642	1.539	1.377	T 1.002	T 0.769

Run	Time	44Ca	45Sc	47Ti	51V	52Cr	54Fe	55Mn	56Fe
1	17:45:21	54593.2410	483673.0200	38197.3420	73704.5060	48065.7200	1013531.5000	T 2224726.8000	T 17533364.0000
2	17:46:01	54588.2090	488394.2900	37338.4630	73732.2500	48314.6540	1011056.1000	T 2239395.0000	T 17559580.0000
3	17:46:41	56108.2540	489373.0300	37865.8340	74380.4720	48986.0560	1035054.1000	T 2260736.9000	T 17711069.0000
4	17:47:21	55088.9880	494016.6000	38046.6550	74781.5380	49126.8810	1027862.8000	T 2241647.4000	T 17525520.0000
5	17:48:03	55038.6570	490724.1100	38101.9070	72841.9720	50429.6290	1013461.2000	T 2233847.5000	T 17594792.0000
x		55083.4700	489236.2100	37910.0400	73888.1480	48984.5880	1020193.2000	T 2240070.7000	T 17584865.0000
%RSD		1.126	0.770	0.901	1.002	1.883	1.043	T 0.592	T 0.430

Run	Time	57Fe	59Co	60Ni	63Cu	65Cu	66Zn	75As	78Se
1	17:45:21	406013.0800	29186.0200	7641.0015	75752.7510	36891.4790	61785.7020	1865.2087	708.3634
2	17:46:01	405601.2300	29065.6000	7620.9832	77082.3600	37263.1270	62639.5410	1956.0629	760.8681
3	17:46:41	405748.1300	29855.8870	7776.1264	76744.2610	37459.0020	63886.4540	1982.7358	704.1964
4	17:47:21	405218.2600	29351.6000	7981.3203	75878.8910	37338.4630	64312.2100	1921.0547	747.5335
5	17:48:03	403046.6600	29424.3560	7783.6334	75349.1160	37401.2430	62405.2940	1991.0712	720.0311
x		405125.4700	29376.6930	7760.6129	76161.4760	37270.6630	63005.8400	1943.2267	728.1985
%RSD		0.295	1.029	1.859	0.950	0.601	1.677	2.648	3.418

Run	Time	82Se	83Kr	89Y	94Mo	95Mo	96Mo	97Mo	98Mo
1	17:45:21	104.1673	85.0004	759698.9200	3088.0721	350.0074	1067.5684	230.0032	650.0254
2	17:46:01	109.1674	59.1669	756682.1000	3023.0482	405.0098	962.5556	250.0038	737.5326
3	17:46:41	105.0007	85.8338	758152.1200	3205.6164	420.0106	1060.0674	262.5041	702.5296
4	17:47:21	94.1672	78.3337	763192.5300	2893.0021	380.0087	882.5467	282.5048	617.5229
5	17:48:03	90.8338	75.8337	763944.4700	3113.0814	365.0080	987.5585	295.0052	637.5244
x		100.6673	76.8337	760334.0300	3064.5640	384.0089	992.0593	264.0042	669.0270
%RSD		7.730	14.004	0.414	3.790	7.446	7.678	9.764	7.407

Run	Time	103Rh	107Ag	108Mo O	109Ag	111Cd	115In	118Sn	121Sb
1	17:45:21	873276.0400	176.2519	62.5002	175.0018	300.0054	787393.6800	495.0147	435.0114
2	17:46:01	875848.6700	193.7523	40.0001	141.2512	266.2543	782618.7700	637.5244	397.5095
3	17:46:41	877613.1200	191.2522	40.0001	167.5017	273.7545	786708.2600	537.5173	402.5097
4	17:47:21	880896.4400	221.2529	47.5001	207.5026	302.5055	785592.5000	472.5134	295.0052
5	17:48:03	891730.4100	185.0021	47.5001	155.0014	303.7555	789878.1000	572.5197	447.5120
x		879872.9400	193.5023	47.5001	169.2518	289.2550	786438.2600	543.0179	395.5096
%RSD		0.817	8.744	19.338	14.731	6.162	0.337	12.043	15.180

Run	Time	135Ba	137Ba	159Tb	203Tl	205Tl	206Pb	207Pb	208Pb
1	17:45:21	28320.5420	49803.3790	1202441.8000	416.2604	1052.5665	65556.8520	53893.7100	138620.9400
2	17:46:01	29005.3910	49325.5500	1204778.5000	415.0103	1010.0612	66592.5150	55008.4590	136709.7500
3	17:46:41	28669.2310	50572.9930	1203953.5000	430.0111	951.3043	66602.5950	55360.7800	137228.1700
4	17:47:21	29100.7230	50115.2400	1203395.9000	410.0101	982.5579	66295.1580	55370.8470	136498.8300
5	17:48:03	28872.4310	50359.2050	1219453.3000	411.2602	932.5522	66171.6830	55373.3630	137586.5000
x		28793.6630	50035.2740	1206804.6000	416.5104	985.8084	66243.7600	55001.4320	137328.8400
%RSD		1.077	0.978	0.590	1.915	4.834	0.645	1.161	0.611

Run	Time	209Bi	220Bkg
1	17:45:21	852724.8500	0.0000
2	17:46:01	840195.4500	2.5000
3	17:46:41	847811.9800	10.0000
4	17:47:21	845090.2500	2.5000
5	17:48:03	861987.8000	2.5000
x		849562.0700	3.5000
%RSD		0.976	108.327

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User Pre-dilution: 1.00

Run	Time	6Li	9Be	23Na	24Mg	25Mg	26Mg	27Al	39K
1	17:49:51	266567.2000	7921.2630	75452.5460	T 1142145.7000	137937.2300	152497.6800	T 33236378.0000	T 1457448.0000
2	17:50:31	264955.3300	8216.5487	77311.9730	T 1156318.0000	137352.6900	149463.4500	T 33279605.0000	T 1489902.9000
3	17:51:10	268226.7000	8178.1777	79075.9080	T 1162199.5000	139294.5300	153648.5300	T 33490420.0000	T 1501700.2000
4	17:51:50	270388.2300	8340.0046	81206.2490	T 1170679.2000	140204.6000	150741.1500	T 33438122.0000	T 1519521.5000
5	17:52:30	272411.7200	8180.6801	82440.7820	T 1183930.3000	140880.8600	153989.7500	T 33359019.0000	T 1496981.3000
X		268509.8300	8167.3348	79097.4910	T 1163054.5000	139133.9800	152068.1100	T 33360709.0000	T 1493110.8000
%RSD		1.105	1.868	3.581	T 1.344	1.068	1.270	T 0.317	T 1.523

Run	Time	44Ca	45Sc	47Ti	51V	52Cr	54Fe	55Mn	56Fe
1	17:49:51	52716.2140	475269.6100	32284.9180	383576.7700	168422.4400	955031.7300	T 2610910.5000	T 16344894.0000
2	17:50:31	53249.5890	475614.7400	32086.6550	386096.7300	169465.7700	957829.6900	T 2619308.2000	T 16650586.0000
3	17:51:10	52952.7070	481186.3300	31898.4340	394355.2900	172068.3000	968411.8200	T 2629137.9000	T 16516035.0000
4	17:51:50	53626.9980	485139.7000	33680.4250	390659.6800	169608.6400	967370.6700	T 2610868.7000	T 16470364.0000
5	17:52:30	53315.0060	485560.6900	32136.8470	390609.9300	171552.8300	961162.6800	T 2622950.9000	T 16536895.0000
X		53172.1030	480554.2100	32417.4560	389059.6800	170223.6000	961961.3200	T 2618635.2000	T 16503755.0000
%RSD		0.658	1.034	2.219	1.089	0.899	0.607	T 0.302	T 0.672

Run	Time	57Fe	59Co	60Ni	63Cu	65Cu	66Zn	75As	78Se
1	17:49:51	373972.1600	444262.1700	102597.7100	183646.5100	90261.1920	124581.8300	5234.9771	2797.9696
2	17:50:31	381044.4700	455808.8600	103911.3400	188638.6800	90652.9100	124957.3900	5275.8362	2911.3418
3	17:51:10	381580.6900	460184.8000	105022.6400	190362.2100	92958.0970	125071.5800	5388.4082	2899.6711
4	17:51:50	380735.8400	456006.7600	103389.9100	189073.3600	91820.5900	124107.3300	5350.0502	2935.5169
5	17:52:30	379713.2300	457854.0300	103660.7500	189595.0200	91080.0290	125211.1600	5490.9751	2808.8066
X		379409.2800	454823.3200	103716.4700	188263.1600	91354.5630	124785.8600	5348.0494	2870.6612
%RSD		0.821	1.355	0.850	1.413	1.168	0.357	1.871	2.190

Run	Time	82Se	83Kr	89Y	94Mo	95Mo	96Mo	97Mo	98Mo
1	17:49:51	971.7233	73.3337	751943.0900	3018.0464	375.0084	927.5516	242.5035	677.5275
2	17:50:31	970.0565	74.1670	744949.9200	3158.0983	417.5105	890.0475	242.5035	642.5248
3	17:51:10	1003.3937	80.0004	758542.9000	2953.0231	407.5100	857.5441	275.0045	767.5354
4	17:51:50	955.0547	88.3338	749267.4500	2662.9254	457.5126	955.0547	252.5038	730.0320
5	17:52:30	990.8922	80.8337	756149.3400	3075.5674	412.5102	970.0565	275.0045	775.0360
X		978.2241	79.3337	752170.5400	2973.5321	414.0103	920.0509	257.5040	718.5311
%RSD		1.939	7.626	0.719	6.367	7.115	5.037	6.403	7.990

Run	Time	103Rh	107Ag	108Mo O	109Ag	111Cd	115In	118Sn	121Sb
1	17:49:51	869572.1000	29396.7590	505.0153	28182.5750	5954.6267	777479.4900	535.0172	5942.1178
2	17:50:31	869331.3200	29852.1230	407.5100	28563.8700	6173.5359	775579.0500	482.5140	5939.6160
3	17:51:10	876976.0000	30666.3220	420.0106	28844.8350	6161.0267	776663.4000	457.5126	6179.7905
4	17:51:50	871913.8700	30264.8580	412.5102	29503.3850	6104.7352	775609.1700	422.5107	6149.7683
5	17:52:30	878837.6400	29557.3250	405.0098	27995.6970	6156.0230	789562.7100	417.5105	5864.5629
X		873326.1900	29947.4770	430.0112	28618.0720	6109.9895	778978.7600	463.0130	6015.1711
%RSD		0.498	1.737	9.841	2.078	1.485	0.766	10.417	2.336

Run	Time	135Ba	137Ba	159Tb	203Tl	205Tl	206Pb	207Pb	208Pb
1	17:49:51	149555.0700	265041.3400	1202987.8000	22376.2520	53718.8370	71351.6610	59453.8320	146928.9700
2	17:50:31	150868.4300	265459.3300	1203482.1000	22634.4470	54618.4060	72922.6730	59393.4030	148814.4900
3	17:51:10	151634.6500	264899.4300	1199005.5000	23190.9740	54703.9640	73192.5230	60277.2150	151163.7000
4	17:51:50	150300.8100	265959.9200	1191069.0000	22867.5830	54682.5740	70885.2060	59302.7610	147282.6300
5	17:52:30	150127.7300	263444.3800	1201324.0000	22387.5320	53125.0480	71021.3580	59275.0650	148073.9700
X		150497.3300	264960.8800	1199573.7000	22691.3580	54169.7660	71874.6840	59540.4550	148452.7500
%RSD		0.525	0.356	0.422	1.519	1.320	1.527	0.702	1.133

Run	Time	209Bi	220Bkg
1	17:49:51	847794.0400	2.5000
2	17:50:31	845860.3100	0.0000
3	17:51:10	832595.1900	2.5000
4	17:51:50	837884.2100	5.0000
5	17:52:30	842859.1100	0.0000
X		841398.5700	2.0000
%RSD		0.735	104.583

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User Pre-dilution: 1.00

Run	Time	6Li	9Be	23Na	24Mg	25Mg	26Mg	27Al	39K
1	17:54:13	270150.7100	396.6761	82211.0290	1184427.2000	144410.5200	155731.6700	T33556638.0000	T1525395.0000
2	17:54:52	271783.3600	405.8432	85317.0150	1192375.0000	141628.3700	154758.8000	T33433187.0000	T1534933.2000
3	17:55:32	273917.3900	413.3436	83534.0890	1199950.6000	142569.2200	158233.1400	T33758756.0000	T1563786.3000
4	17:56:12	274805.9300	404.1765	83261.3800	T1209369.6000	142274.2400	155446.4200	T33441112.0000	T1570274.7000
5	17:56:52	272642.4100	390.8425	84344.6920	1195757.1000	144125.6500	155792.8000	T33154783.0000	T1540053.7000
X		272659.9600	402.1764	83733.6410	T1196375.9000	143001.6000	155992.5600	T33468895.0000	T1546888.6000
%RSD		0.668	2.156	1.396	T0.772	0.846	0.845	T0.655	T1.245

Run	Time	44Ca	45Sc	47Ti	51V	52Cr	54Fe	55Mn	56Fe
1	17:54:13	54482.5200	485976.4000	34907.9610	72640.2220	47444.6760	1010459.9000	T2238241.0000	T17474691.0000
2	17:54:52	54862.5010	483323.6000	36236.1120	73058.8580	48005.3740	1010150.6000	T2232304.2000	T17310325.0000
3	17:55:32	54975.7440	492450.3600	35578.2870	73855.8370	48375.0020	1031704.4000	T2275099.2000	T17567761.0000
4	17:56:12	55489.1300	491477.8900	38875.4670	74264.4450	49182.2060	1018833.4000	T2249558.5000	T17446212.0000
5	17:56:52	53991.8420	487038.2800	34368.2250	72917.6290	48676.7520	T1033998.4000	T2228981.3000	T17240182.0000
X		54760.3470	488053.3100	35993.2100	73347.3980	48336.8020	T1021029.3000	T2244836.9000	T17407834.0000
%RSD		1.023	0.785	4.883	0.932	1.363	T1.114	T0.830	T0.755

Run	Time	57Fe	59Co	60Ni	63Cu	65Cu	66Zn	75As	78Se
1	17:54:13	400621.3000	29391.7410	7648.5084	75984.8500	37243.0370	63221.4110	1856.8735	710.8637
2	17:54:52	395995.3800	28902.5350	7861.2062	75331.4580	36575.0880	63516.1390	1851.0389	742.5331
3	17:55:32	402440.9100	29489.5860	7638.4992	76681.1840	37104.9230	63541.3300	1946.8941	744.1999
4	17:56:12	402026.6100	29735.4570	7793.6427	76466.7270	37092.3670	64120.7430	1927.7229	767.5354
5	17:56:52	398878.1000	29128.3190	7848.6944	75404.6150	36685.5730	62904.0220	1966.0652	727.5318
X		399992.4600	29329.5280	7758.1102	75973.7670	36940.1980	63460.7290	1909.7189	738.5328
%RSD		0.658	1.101	1.389	0.801	0.789	0.710	2.761	2.853

Run	Time	82Se	83Kr	89Y	94Mo	95Mo	96Mo	97Mo	98Mo
1	17:54:13	110.0007	95.8339	757108.3300	3115.5823	415.0103	990.0588	265.0042	715.0307
2	17:54:52	90.8338	82.5004	760816.8300	3548.2552	420.0106	1057.5671	227.5031	710.0303
3	17:55:32	98.3339	73.3337	767004.8400	3315.6595	447.5120	1060.0674	205.0025	667.5267
4	17:56:12	100.0006	72.5003	768958.1300	3220.6222	390.0091	1022.5627	260.0041	780.0365
5	17:56:52	95.8339	76.6670	766509.7500	3523.2446	470.0133	992.5591	230.0032	715.0307
X		99.0006	80.1671	764079.5700	3344.6728	428.5111	1024.5630	237.5034	717.5310
%RSD		7.128	11.975	0.646	5.634	7.212	3.299	10.474	5.608

Run	Time	103Rh	107Ag	108Mo O	109Ag	111Cd	115In	118Sn	121Sb
1	17:54:13	883196.8800	181.2520	50.0001	141.2512	298.7554	780287.0900	552.5183	247.5037
2	17:54:52	886828.9300	160.0015	50.0001	171.2518	298.7554	782714.6800	512.5158	262.5041
3	17:55:32	891200.4600	172.5018	52.5002	183.7520	293.7552	784745.5000	510.0156	242.5035
4	17:56:12	885453.5600	191.2522	55.0002	175.0018	286.2549	789587.3900	602.5218	240.0035
5	17:56:52	891841.4000	190.0022	37.5001	141.2512	286.2549	782489.9800	565.0192	257.5040
X		887704.2500	179.0019	49.0001	162.5016	292.7551	783964.9300	548.5181	250.0038
%RSD		0.420	7.281	13.785	12.260	2.143	0.449	7.051	3.873

Run	Time	135Ba	137Ba	159Tb	203Tl	205Tl	206Pb	207Pb	208Pb
1	17:54:13	28734.4550	49561.9460	1204867.6000	376.2585	907.5494	65284.7280	54686.3490	134875.2200
2	17:54:52	28965.2520	49848.6490	1197546.3000	398.7595	827.5411	65216.6980	53345.1980	134933.6500
3	17:55:32	28676.7570	50575.5090	1207765.6000	411.2602	973.8069	66627.7950	56020.1650	135820.3800
4	17:56:12	28661.7050	50364.2350	1214062.1000	402.5097	1002.5603	66096.0860	54500.1350	135205.5100
5	17:56:52	29158.4240	49634.8780	1207808.7000	365.0080	950.0542	65592.1280	54366.7680	135205.5100
X		28839.3180	49997.0430	1206410.0000	390.7592	932.3024	65763.4870	54583.7230	135208.0500
%RSD		0.749	0.901	0.496	4.949	7.307	0.904	1.753	0.277

Run	Time	209Bi	220Bkg
1	17:54:13	846597.3100	2.5000
2	17:54:52	841104.4000	2.5000
3	17:55:32	845128.8800	0.0000
4	17:56:12	850990.2600	2.5000
5	17:56:52	853597.8000	2.5000
X		847483.7300	2.0000
%RSD		0.580	55.902

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User Pre-dilution: 1.00

Run	Time	6Li	9Be	23Na	24Mg	25Mg	26Mg	27Al	39K
1	17:58:33	264207.1300	116.6675	31361.4010	232442.1700	28598.9900	31303.6850	T6715307.7000	335674.6700
2	17:59:13	267863.6300	124.1676	31843.2230	240212.9500	29818.2520	32543.4210	T6769064.4000	349289.9400
3	17:59:52	268317.9000	123.3343	32335.1120	241993.3600	29617.5390	32709.0670	T6890982.8000	350337.5700
4	18:00:32	272904.1100	123.3343	31810.5990	245550.1700	30214.6760	33376.7070	T6914571.5000	352123.0100
5	18:01:11	271210.9900	116.6675	31404.0620	231640.3000	28378.2370	30982.4880	T6589189.9000	330686.0500
x		268900.7500	120.8342	31750.8800	238367.7900	29325.5390	32183.0740	T6775823.3000	343622.2500
%RSD		1.245	3.160	1.245	2.556	2.719	3.125	T1.967	2.836

Run	Time	44Ca	45Sc	47Ti	51V	52Cr	54Fe	55Mn	56Fe
1	17:58:33	10934.6690	468960.5600	7243.1464	15261.4620	10336.4070	199599.6100	435044.4400	T3574589.4000
2	17:59:13	11267.6120	470913.7200	7618.4809	15291.5170	10786.9770	204885.6000	447090.0500	T3637043.5000
3	17:59:52	10962.2050	476237.5900	7913.7559	15419.2520	10872.0880	207980.8700	450040.1600	T3713090.5000
4	18:00:32	11370.2520	480721.8900	7600.9649	15281.4990	10711.8800	208672.8500	454481.7400	T3688561.5000
5	18:01:11	11119.9140	478503.2600	7240.6442	15046.0710	10631.7780	200185.9300	428871.4900	T3566394.3000
x		11130.9310	475067.4100	7523.3985	15259.9600	10667.8260	204264.9700	443105.5800	T3635935.8000
%RSD		1.699	1.051	3.794	0.883	1.927	2.077	2.423	T1.810

Run	Time	57Fe	59Co	60Ni	63Cu	65Cu	66Zn	75As	78Se
1	17:58:33	81993.9050	5701.9501	1647.6629	15797.4590	7863.7085	14044.3250	421.6773	720.8645
2	17:59:13	82430.6830	6104.7352	1557.6456	15997.8410	7866.2109	14219.6220	413.3436	705.0298
3	17:59:52	83380.0580	6212.3147	1755.1848	15927.7070	8026.3635	14705.4640	440.8450	675.0273
4	18:00:32	82912.9310	6157.2739	1592.6522	16406.1340	8158.9922	14434.9910	378.3419	713.3639
5	18:01:11	80413.6180	5874.5699	1485.1323	15208.8660	7588.4535	13566.0330	405.0098	740.0329
x		82226.2390	6010.1688	1607.6556	15867.6010	7900.7457	14194.0870	411.8435	710.8637
%RSD		1.385	3.577	6.305	2.728	2.704	3.024	5.576	3.355

Run	Time	82Se	83Kr	89Y	94Mo	95Mo	96Mo	97Mo	98Mo
1	17:58:33	83.3337	75.0003	734478.8600	645.0250	72.5003	225.0030	67.5003	155.0014
2	17:59:13	72.5003	66.6669	743828.5900	1032.5640	107.5007	220.0029	47.5001	140.0012
3	17:59:52	85.8338	78.3337	737043.6500	665.0265	100.0006	155.0014	42.5001	190.0022
4	18:00:32	84.1671	75.8337	746428.8800	540.0175	82.5004	215.0028	55.0002	92.5005
5	18:01:11	59.1669	80.8337	742606.4700	570.0195	97.5006	180.0019	47.5001	127.5010
x		77.0004	75.3337	740877.2900	690.5305	92.0005	199.0024	52.0002	141.0013
%RSD		14.632	7.109	0.669	28.680	15.420	15.221	18.744	25.405

Run	Time	103Rh	107Ag	108Mo O	109Ag	111Cd	115In	118Sn	121Sb
1	17:58:33	882564.8900	48.7501	5.0000	50.0001	83.7504	790188.0200	90.0005	140.0012
2	17:59:13	891752.6100	63.7502	12.5000	67.5003	83.7504	795189.3500	137.5011	102.5006
3	17:59:52	891813.6500	55.0002	7.5000	50.0001	70.0003	784970.2700	155.0014	92.5005
4	18:00:32	894613.7700	72.5003	10.0000	38.7501	67.5003	793073.7900	97.5006	92.5005
5	18:01:11	892987.4300	66.2503	10.0000	42.5001	76.2503	793751.4800	97.5006	67.5003
x		890746.4700	61.2502	9.0000	49.7502	76.2504	791434.5800	115.5008	99.0006
%RSD		0.530	15.340	31.672	22.219	9.904	0.511	25.028	26.581

Run	Time	135Ba	137Ba	159Tb	203Tl	205Tl	206Pb	207Pb	208Pb
1	17:58:33	5924.6053	10151.1790	1217242.3000	100.0006	308.7557	13390.7500	10932.1660	27557.9910
2	17:59:13	6002.1608	10283.8420	1217406.4000	127.5010	278.7547	13621.1230	11129.9280	27653.3060
3	17:59:52	6042.1897	10356.4310	1214703.9000	147.5013	296.2553	13561.0250	11575.5340	27994.4420
4	18:00:32	6152.2702	10376.4560	1217383.4000	141.2512	327.5064	13801.4190	11560.5130	28536.2760
5	18:01:11	5551.8488	9883.3574	1232906.5000	138.7512	290.0051	12897.4730	10924.6560	27264.5280
x		5934.6149	10210.2530	1219928.5000	131.0011	300.2554	13454.3580	11224.5590	27801.3090
%RSD		3.862	1.988	0.602	14.335	6.227	2.558	2.888	1.750

Run	Time	209Bi	220Bkg
1	17:58:33	868633.9100	0.0000
2	17:59:13	866392.6200	0.0000
3	17:59:52	871374.0500	5.0000
4	18:00:32	867842.4700	0.0000
5	18:01:11	882520.5500	2.5000
x		871352.7200	1.5000
%RSD		0.746	149.071

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User Pre-dilution: 1.00

Run	Time	6Li	9Be	23Na	24Mg	25Mg	26Mg	27Al	39K
1	18:02:53	267354.3200	8064.7338	↹8591659.9000	↹5968971.2000	712620.2800	779531.0000	↹32997550.0000	↹4752265.1000
2	18:03:33	267122.9100	8179.0118	↹8742624.9000	↹5987513.3000	720071.7700	781689.8600	↹33076690.0000	↹4778256.7000
3	18:04:13	266642.9000	8297.4622	↹8885934.5000	↹6035344.8000	721258.0700	775833.6900	↹33318234.0000	↹4764187.9000
4	18:04:53	268972.6700	8258.2566	↹8823153.1000	↹6026180.1000	713142.2200	786809.7000	↹33035656.0000	↹4856771.0000
5	18:05:32	267082.4800	7947.1209	↹8602492.0000	↹5882520.2000	699923.9700	766873.5400	↹33095083.0000	↹4714087.3000
x		267435.0600	8149.3171	↹8729172.9000	↹5980105.9000	713403.2600	778147.5600	↹33104643.0000	↹4773113.6000
%RSD		0.335	1.765	↹1.500	↹1.020	1.191	0.957	↹0.378	↹1.100

Run	Time	44Ca	45Sc	47Ti	51V	52Cr	54Fe	55Mn	56Fe
1	18:02:53	195314.8600	474010.8700	37413.7990	233120.7400	109299.6100	1180817.2000	↹2227827.3000	↹19950478.0000
2	18:03:33	197771.8000	473787.4300	37973.8240	232398.4800	109152.7100	1167662.6000	↹2227674.4000	↹19994687.0000
3	18:04:13	201059.0700	473817.8400	38589.1410	234051.2800	108509.3900	1188592.5000	↹2231205.9000	↹20269777.0000
4	18:04:53	197651.5000	477538.9900	36738.3040	232583.5400	108519.5200	1167674.0000	↹2229315.0000	↹19861780.0000
5	18:05:32	197195.8900	479442.5100	36946.7220	234454.8900	107782.5500	1166354.5000	↹2210406.2000	↹20063537.0000
x		197798.6200	475719.5300	37532.3580	233321.7900	108652.7500	1174220.1000	↹2225285.8000	↹20028052.0000
%RSD		1.048	0.551	2.020	0.387	0.557	0.849	↹0.379	↹0.767

Run	Time	57Fe	59Co	60Ni	63Cu	65Cu	66Zn	75As	78Se
1	18:02:53	464679.1900	70209.5220	17192.7170	116366.8400	58663.2580	72090.4790	6443.3234	6485.0223
2	18:03:33	466414.7300	70320.4510	17090.0060	119891.2800	58225.2020	72367.8680	6541.7333	6506.7059
3	18:04:13	470053.3800	70259.9440	17626.1210	120304.6700	58018.7700	74176.1630	6488.3583	6341.5787
4	18:04:53	462011.8500	70184.3110	17145.1190	119498.1900	58577.6590	73941.5930	6399.9566	6446.6593
5	18:05:32	461863.9800	70277.5920	16887.0930	117997.0200	57442.2970	72405.6940	6366.5978	6399.9566
x		465004.6200	70250.3640	17188.2110	118811.6000	58185.4370	72996.3600	6447.9939	6435.9846
%RSD		0.732	0.077	1.577	1.364	0.844	1.344	1.079	1.034

Run	Time	82Se	83Kr	89Y	94Mo	95Mo	96Mo	97Mo	98Mo
1	18:02:53	2462.0303	66.6669	747485.0500	3700.8216	432.5112	1012.5615	257.5040	642.5248
2	18:03:33	2361.1678	75.8337	750875.4700	3000.5401	435.0114	977.5573	272.5045	645.0250
3	18:04:13	2463.6975	80.8337	736517.5500	3068.0647	390.0091	962.5556	267.5043	630.0238
4	18:04:53	2455.3617	85.0004	749349.3400	3010.5437	442.5118	995.0594	272.5045	620.0231
5	18:05:32	2473.7004	68.3336	754043.2300	2640.4182	337.5068	935.0525	262.5041	677.5275
x		2443.1915	75.3337	747654.1300	3084.0777	407.5101	976.5573	266.5043	643.0248
%RSD		1.896	10.453	0.893	12.451	10.845	3.054	2.446	3.383

Run	Time	103Rh	107Ag	108Mo O	109Ag	111Cd	115In	118Sn	121Sb
1	18:02:53	857333.6800	29331.5300	447.5120	28134.9140	5834.5418	761926.6900	542.5177	29845.8510
2	18:03:33	856388.5000	29461.9890	445.0119	27896.6150	6107.2371	758786.1100	540.0175	30011.4440
3	18:04:13	859039.1200	30085.4600	445.0119	28511.1900	6089.7243	756346.0500	562.5190	29788.1450
4	18:04:53	860551.3500	30199.6220	420.0106	29030.4780	6044.6915	764472.2300	550.0181	29228.6690
5	18:05:32	859260.2700	29311.4590	417.5105	27916.6820	6055.9497	763772.2000	602.5218	29918.6110
x		858514.5800	29678.0120	435.0114	28297.9760	6026.4289	761060.6600	559.5188	29758.5440
%RSD		0.192	1.448	3.424	1.690	1.828	0.451	4.572	1.034

Run	Time	135Ba	137Ba	159Tb	203Tl	205Tl	206Pb	207Pb	208Pb
1	18:02:53	58587.7300	102091.5500	1191594.2000	22570.5240	54542.9140	82064.5960	69105.3500	172356.6700
2	18:03:33	58393.8760	102714.1300	1183896.7000	22230.8630	54091.2340	81544.5280	68671.7880	172303.0700
3	18:04:13	58821.8710	102704.0100	1182589.1000	22525.4030	54630.9880	81577.3470	69319.6180	170629.1600
4	18:04:53	58786.6230	101433.5900	1183265.8000	22665.7820	54493.8440	81807.0830	69554.0600	174597.6000
5	18:05:32	58182.4050	100907.2600	1190721.7000	22413.8520	53102.4050	80284.8860	68770.0940	170274.5100
x		58554.5010	101970.1100	1186413.5000	22481.2850	54172.2770	81455.6880	69084.1820	172032.2000
%RSD		0.460	0.779	0.368	0.742	1.168	0.843	0.534	0.999

Run	Time	209Bi	220Bkg
1	18:02:53	826160.8800	2.5000
2	18:03:33	819981.7300	2.5000
3	18:04:13	821269.7800	0.0000
4	18:04:53	826985.7400	0.0000
5	18:05:32	824273.2200	0.0000
x		823734.2700	1.0000
%RSD		0.369	136.931

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User Pre-dilution: 1.00

Run	Time	6Li	9Be	23Na	24Mg	25Mg	26Mg	27Al	39K
1	18:07:15	270566.3700	580.8536	150965.1500	↹1917252.4000	225608.1500	247136.0300	↹44503190.0000	↹1948464.0000
2	18:07:54	271578.5100	557.5187	↹155578.5000	↹1941510.6000	232082.3500	250128.3500	↹44799002.0000	↹1985913.9000
3	18:08:34	269049.2500	591.6877	↹152929.4000	↹1951431.2000	234508.8800	253570.0500	↹45103262.0000	↹2022774.0000
4	18:09:13	273424.0800	558.3520	154980.3600	↹1999191.9000	232108.0500	253446.3700	↹45104047.0000	↹2035286.6000
5	18:09:53	271226.4800	575.0198	152138.7100	↹1946518.2000	233603.9900	254982.1700	↹45308283.0000	↹1984458.1000
X		271168.9400	572.6864	↹153318.4200	↹1951180.9000	231582.2900	251852.5900	↹44963557.0000	↹1995379.3000
%RSD		0.586	2.573	↹1.261	↹1.531	1.509	1.263	↹0.701	↹1.728

Run	Time	44Ca	45Sc	47Ti	51V	52Cr	54Fe	55Mn	56Fe
1	18:07:15	141305.4600	475457.3800	39382.8410	101585.4200	73454.8160	1417763.2000	↹2754505.8000	↹23961600.0000
2	18:07:54	146761.0500	478140.8200	41148.8430	103941.7200	73926.4590	1443726.1000	↹2767422.2000	↹24320595.0000
3	18:08:34	147038.3700	483040.3600	40146.4720	104351.7900	74103.0170	1450213.7000	↹2824982.6000	↹24999452.0000
4	18:09:13	145341.4900	487091.2500	40900.1240	105283.4000	74859.7350	1452334.9000	↹2820922.8000	↹24586451.0000
5	18:09:53	145524.6500	482878.9000	41377.4710	104174.6000	74140.8510	1455748.2000	↹2788055.0000	↹24683751.0000
X		145194.2000	481321.7400	40591.1500	103867.3900	74096.9760	1443957.2000	↹2791177.7000	↹24510370.0000
%RSD		1.582	0.947	2.017	1.322	0.683	1.059	↹1.125	↹1.596

Run	Time	57Fe	59Co	60Ni	63Cu	65Cu	66Zn	75As	78Se
1	18:07:15	554656.6300	41038.3000	13460.8630	207009.6400	101562.6500	199389.6700	2431.1879	710.0303
2	18:07:54	559529.2400	41367.4220	13728.7990	207937.3100	101954.9000	202175.6000	2444.5252	745.0333
3	18:08:34	569750.6400	41689.0180	13776.3780	210654.2800	102357.2800	205339.0600	2462.0303	735.0324
4	18:09:13	576191.6600	42096.0570	13788.8990	212002.8400	102924.2000	203020.7800	2424.5193	777.5363
5	18:09:53	576065.9000	41214.1650	13756.3450	212802.8500	102946.9800	202861.9900	2513.7124	787.5372
X		567238.8100	41480.9920	13702.2570	210081.3800	102349.2000	202557.4200	2455.1950	751.0339
%RSD		1.723	1.010	0.999	1.201	0.591	1.054	1.455	4.215

Run	Time	82Se	83Kr	89Y	94Mo	95Mo	96Mo	97Mo	98Mo
1	18:07:15	110.8341	74.1670	743231.1500	4473.7005	502.5152	1310.1030	367.5081	915.0502
2	18:07:54	122.5009	74.1670	742453.7200	4373.6474	650.0254	1265.0960	380.0087	955.0547
3	18:08:34	132.5011	80.0004	751197.6500	4388.6553	600.0216	1452.6266	355.0076	925.0513
4	18:09:13	108.3340	81.6671	760576.2900	4020.9699	580.0202	1322.6049	347.5073	900.0486
5	18:09:53	109.1674	58.3335	753729.1400	4331.1252	520.0162	1342.6081	355.0076	982.5579
X		116.6675	73.6670	750237.5900	4317.6197	570.5197	1338.6077	361.0078	935.5526
%RSD		9.035	12.510	1.010	4.024	10.538	5.214	3.552	3.537

Run	Time	103Rh	107Ag	108Mo O	109Ag	111Cd	115In	118Sn	121Sb
1	18:07:15	856137.0300	513.7658	82.5004	531.2669	595.0212	763321.0400	1147.5790	350.0074
2	18:07:54	852075.7200	488.7643	57.5002	440.0116	627.5236	768129.1600	1245.0930	400.0096
3	18:08:34	862639.0500	542.5177	87.5005	442.5118	663.7764	774924.6700	1185.0843	442.5118
4	18:09:13	856009.9100	517.5161	75.0003	506.2654	656.2758	773963.7300	1290.0999	447.5120
5	18:09:53	866409.2200	502.5152	80.0004	487.5143	626.2735	770331.7100	1115.0746	472.5134
X		858654.1800	513.0158	76.5004	481.5140	633.7741	770134.0600	1196.5861	422.5108
%RSD		0.671	3.886	15.082	8.286	4.324	0.609	5.950	11.405

Run	Time	135Ba	137Ba	159Tb	203Tl	205Tl	206Pb	207Pb	208Pb
1	18:07:15	48792.4250	84746.2350	1177532.5000	432.5112	1083.8205	193441.9300	157280.3500	397824.4800
2	18:07:54	48769.7930	87039.6930	1184863.2000	478.7638	1073.8192	195691.0300	161869.4800	402419.9300
3	18:08:34	50273.6910	88525.2190	1195975.3000	488.7643	1176.3330	200500.8600	162700.4300	406490.5300
4	18:09:13	50595.6300	86888.1240	1191502.4000	490.0144	1166.3316	196594.4300	162771.8000	410384.6000
5	18:09:53	48704.4120	87110.4260	1200809.7000	492.5146	1103.8231	195076.8800	161614.6100	404187.4700
X		49427.1900	86861.9390	1190136.6000	476.5137	1120.8255	196261.0300	161247.3300	404261.4000
%RSD		1.876	1.559	0.771	5.277	4.237	1.342	1.411	1.156

Run	Time	209Bi	220Bkg
1	18:07:15	824022.6700	2.5000
2	18:07:54	830645.5300	0.0000
3	18:08:34	836708.1400	0.0000
4	18:09:13	835803.7900	2.5000
5	18:09:53	835638.3700	0.0000
X		832563.7000	1.0000
%RSD		0.641	136.931

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User Pre-dilution: 1.00

Run	Time	6Li	9Be	23Na	24Mg	25Mg	26Mg	27Al	39K
1	18:11:35	267852.4400	378.3419	86059.5920	τ1402490.8000	167221.1100	185900.6700	τ31129061.0000	τ1193942.9000
2	18:12:15	270201.4800	370.8416	83849.7350	τ1429323.7000	170960.8500	186161.3900	τ31355216.0000	τ1197670.4000
3	18:12:54	271647.3600	372.5083	86529.4200	τ1421717.9000	173216.7200	185599.0600	τ31815176.0000	τ1236576.1000
4	18:13:34	269088.8300	356.6743	86615.3050	τ1417938.6000	168618.8500	183385.8600	τ31445844.0000	τ1217349.1000
5	18:14:14	272688.9000	363.3413	85695.8730	τ1422450.1000	170006.6200	185041.8700	τ31547489.0000	τ1229372.3000
x		270295.8000	368.3415	85749.9850	τ1418784.2000	170004.8300	185217.7700	τ31458557.0000	τ1214982.2000
%RSD		0.716	2.291	1.312	τ0.704	1.345	0.597	τ0.802	τ1.551

Run	Time	44Ca	45Sc	47Ti	51V	52Cr	54Fe	55Mn	56Fe
1	18:11:35	89508.1350	477986.0600	32149.3960	70085.9890	48943.3060	1011388.0000	1307199.8000	τ17374157.0000
2	18:12:15	89637.0090	477386.8900	31399.0430	69687.6690	49619.7890	1006636.0000	1302546.0000	τ17448855.0000
3	18:12:54	90860.1480	480421.5400	31328.7790	71747.5390	49084.1310	1026003.2000	1307682.4000	τ17514992.0000
4	18:13:34	91509.6980	480105.3300	31494.4020	69987.6670	49730.4460	1020364.8000	1305097.9000	τ17554674.0000
5	18:14:14	91264.5310	483789.5000	33062.9600	69561.6220	48973.4830	1012530.0000	1298771.9000	τ17510971.0000
x		90555.9040	479937.8600	31886.9160	70214.0970	49270.2310	1015384.4000	1304259.6000	τ17480730.0000
%RSD		1.025	0.525	2.302	1.258	0.762	0.760	0.282	τ0.404

Run	Time	57Fe	59Co	60Ni	63Cu	65Cu	66Zn	75As	78Se
1	18:11:35	398608.1300	19412.5850	9257.6394	92343.8240	45151.9920	149506.7100	1569.3144	746.7001
2	18:12:15	400220.2000	19891.2110	9410.3102	93312.0190	46202.7270	151049.1600	1581.8168	705.8632
3	18:12:54	405719.2800	20131.7880	9397.7961	95668.5140	46001.6190	152905.0400	1543.4763	719.1977
4	18:13:34	404415.6500	19450.1720	9645.5790	94161.4950	45730.1310	151756.8400	1572.6484	737.5326
5	18:14:14	401363.2600	19971.4030	9392.7905	93529.4360	44732.2370	151107.7000	1544.3097	683.3614
x		402065.3000	19771.4320	9420.8230	93803.0580	45563.7410	151265.0900	1562.3131	718.5310
%RSD		0.733	1.631	1.488	1.311	1.339	0.816	1.116	3.516

Run	Time	82Se	83Kr	89Y	94Mo	95Mo	96Mo	97Mo	98Mo
1	18:11:35	99.1673	80.0004	748546.8000	3765.8507	422.5107	1015.0618	250.0038	645.0250
2	18:12:15	107.5007	75.0003	749436.7000	3728.3338	405.0098	1055.0668	310.0058	695.0290
3	18:12:54	104.1673	86.6671	751536.2300	3828.3792	372.5083	1125.0759	267.5043	710.0303
4	18:13:34	87.5005	71.6670	750648.8500	3558.2595	400.0096	1220.0893	247.5037	730.0320
5	18:14:14	101.6673	65.0003	749573.1900	4201.0587	447.5120	977.5573	245.0036	660.0261
x		100.0006	75.6670	749948.3600	3816.3764	409.5101	1078.5702	264.0042	688.0285
%RSD		7.638	10.858	0.155	6.215	6.790	8.915	10.300	5.103

Run	Time	103Rh	107Ag	108Mo O	109Ag	111Cd	115In	118Sn	121Sb
1	18:11:35	864860.0100	495.0147	72.5003	455.0124	513.7658	775140.9700	1250.0938	250.0038
2	18:12:15	869710.4900	505.0153	55.0002	443.7618	478.7638	774023.9500	1270.0968	255.0039
3	18:12:54	873267.7300	507.5155	77.5004	511.2657	513.7658	778963.9800	1107.5736	247.5037
4	18:13:34	872268.2300	563.7691	50.0001	490.0144	531.2669	776134.9000	1235.0915	257.5040
5	18:14:14	872990.8500	536.2672	65.0003	473.7635	560.0188	783608.0800	1345.1086	287.5050
x		870619.4600	521.5164	64.0003	474.7636	519.5162	777574.3800	1241.5928	259.5041
%RSD		0.403	5.401	18.028	5.688	5.698	0.494	6.929	6.221

Run	Time	135Ba	137Ba	159Tb	203Tl	205Tl	206Pb	207Pb	208Pb
1	18:11:35	34446.0450	60639.8320	1196969.0000	356.2576	838.7922	166004.6500	136646.2200	340903.1300
2	18:12:15	34734.7400	60523.9940	1195817.4000	353.7575	902.5489	167453.2000	135756.8600	342590.2500
3	18:12:54	34870.3040	60171.4550	1212750.1000	375.0084	957.5550	166889.5600	137647.5000	346022.7900
4	18:13:34	35098.7600	60972.2440	1205856.5000	381.2587	895.0481	165958.7500	137167.1800	342611.0800
5	18:14:14	34611.7290	60423.2670	1214128.3000	405.0098	961.3054	165917.9400	135761.9400	342147.6100
x		34752.3160	60546.1580	1205104.3000	374.2584	911.0499	166444.8200	136595.9400	342854.9700
%RSD		0.716	0.486	0.710	5.572	5.553	0.416	0.616	0.555

Run	Time	209Bi	220Bkg
1	18:11:35	841874.1100	0.0000
2	18:12:15	838241.3400	0.0000
3	18:12:54	848358.6400	0.0000
4	18:13:34	843124.0000	5.0000
5	18:14:14	858551.2200	0.0000
x		846029.8600	1.0000
%RSD		0.932	223.607

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User Pre-dilution: 1.00

Run	Time	6Li	9Be	23Na	24Mg	25Mg	26Mg	27Al	39K
1	18:15:56	266356.4500	410.0101	108570.1700	┬6757022.0000	814274.4800	882897.5100	┬34958538.0000	┬1562782.2000
2	18:16:35	269889.1000	447.5120	112696.9200	┬6801971.8000	822947.5600	895690.7700	┬35430611.0000	┬1604637.3000
3	18:17:15	270279.7900	412.5102	114972.6900	┬6851716.5000	826808.0900	919958.1000	┬35736079.0000	┬1624780.5000
4	18:17:55	270379.6200	415.8437	113097.2900	┬6833694.1000	826912.7500	904089.1900	┬35342922.0000	┬1635234.8000
5	18:18:35	274341.8400	418.3438	112157.2100	┬6806766.7000	810666.8900	893697.8800	┬35546610.0000	┬1590129.2000
X		270249.3600	420.8440	112298.8500	┬6810234.2000	820321.9500	899266.6900	┬35402952.0000	┬1603512.8000
%RSD		1.047	3.622	2.082	┬0.529	0.909	1.536	┬0.816	┬1.791

Run	Time	44Ca	45Sc	47Ti	51V	52Cr	54Fe	55Mn	56Fe
1	18:15:56	398254.3000	477015.2300	30691.4140	85152.8490	55932.0760	1241356.4000	┬2683792.6000	┬21321166.0000
2	18:16:35	402136.7400	473364.3800	31777.9750	84400.2510	55954.7270	1244110.3000	┬2706524.8000	┬21455914.0000
3	18:17:15	407944.0400	480064.3100	31155.6320	85529.1730	57291.2630	1282336.9000	┬2752754.0000	┬21633240.0000
4	18:17:55	407579.3300	478728.1400	30453.0420	84589.6570	56067.9850	1257670.0000	┬2738419.5000	┬21412942.0000
5	18:18:35	403904.2200	484416.9200	30337.6220	83564.3900	56276.8860	1261398.0000	┬2715325.7000	┬21300235.0000
X		403963.7200	478717.8000	30883.1370	84647.2640	56304.5870	1257374.3000	┬2719363.3000	┬21424700.0000
%RSD		0.997	0.848	1.912	0.890	1.009	1.302	┬0.994	┬0.621

Run	Time	57Fe	59Co	60Ni	63Cu	65Cu	66Zn	75As	78Se
1	18:15:56	494591.7600	27041.3030	10143.6700	218607.7400	104344.2000	101367.8000	3401.5274	677.5275
2	18:16:35	496375.7800	26665.0930	10126.1490	218502.5300	107944.6200	102445.8600	3437.3755	701.6962
3	18:17:15	503064.5400	27404.9880	10308.8720	221546.3300	108516.9900	103964.5000	3520.7436	730.0320
4	18:17:55	500706.1700	26925.9300	10534.1540	221700.3500	107585.0200	102863.4600	3355.6755	721.6979
5	18:18:35	495294.1900	26775.4460	10366.4440	220388.7400	107805.3400	102106.7400	3440.7102	733.3656
X		498006.4900	26962.5520	10295.8580	220149.1400	107239.2300	102549.6700	3431.2064	712.8639
%RSD		0.742	1.060	1.639	0.700	1.543	0.938	1.769	3.265

Run	Time	82Se	83Kr	89Y	94Mo	95Mo	96Mo	97Mo	98Mo
1	18:15:56	100.0006	78.3337	752729.5600	5111.5672	442.5118	1472.6301	290.0051	707.5300
2	18:16:35	87.5005	64.1669	751836.6000	5381.7372	482.5140	1335.1069	282.5048	810.0394
3	18:17:15	86.6671	45.8335	758108.4000	5386.7405	387.5090	1445.1253	267.5043	757.5344
4	18:17:55	114.1675	67.5003	757305.0500	5059.0352	495.0147	1432.6231	312.5059	800.0384
5	18:18:35	82.5004	58.3335	762629.3000	5261.6606	410.0101	1317.6042	320.0061	757.5344
X		94.1672	62.8336	756521.7800	5240.1481	443.5119	1400.6179	294.5052	766.5353
%RSD		13.753	19.049	0.579	2.884	10.353	4.969	7.337	5.323

Run	Time	103Rh	107Ag	108Mo O	109Ag	111Cd	115In	118Sn	121Sb
1	18:15:56	874367.0300	346.2572	50.0001	291.2551	375.0084	773575.0000	697.5292	215.0028
2	18:16:35	867748.3900	308.7557	55.0002	278.7547	380.0087	778764.0300	685.0282	195.0023
3	18:17:15	870205.9200	371.2583	57.5002	335.0067	342.5070	783728.6700	682.5280	175.0018
4	18:17:55	884630.1100	352.5075	62.5002	327.5064	386.2590	787974.9600	632.5240	222.5030
5	18:18:35	881037.7800	367.5081	60.0002	283.7548	350.0074	791625.3000	665.0265	217.5028
X		875597.8500	349.2574	57.0002	303.2556	366.7581	783133.5900	672.5272	205.0025
%RSD		0.814	7.125	8.437	8.600	5.267	0.917	3.745	9.641

Run	Time	135Ba	137Ba	159Tb	203Tl	205Tl	206Pb	207Pb	208Pb
1	18:15:56	30914.7370	54399.4810	1214813.2000	376.2585	951.3043	108202.9400	88947.1760	219852.3500
2	18:16:35	31188.2530	55954.7270	1204790.0000	371.2583	936.3026	108742.4000	88770.3050	221928.8100
3	18:17:15	32465.6180	56427.9020	1217584.9000	393.7593	981.3078	109910.0600	89674.9130	224406.3500
4	18:17:55	31677.5940	55499.1960	1230118.5000	436.2614	996.3096	109826.4700	89912.4520	222655.3100
5	18:18:35	31017.6180	55232.4330	1232165.4000	448.7621	957.5550	108050.9900	88714.7180	220588.9300
X		31452.7640	55502.7480	1219894.4000	405.2599	964.5559	108946.5700	89203.9130	221886.3500
%RSD		2.027	1.381	0.930	8.709	2.492	0.808	0.618	0.805

Run	Time	209Bi	220Bkg
1	18:15:56	842736.3200	0.0000
2	18:16:35	849072.3900	2.5000
3	18:17:15	849620.5000	0.0000
4	18:17:55	857850.5300	2.5000
5	18:18:35	860049.5500	0.0000
X		851865.8600	1.0000
%RSD		0.828	136.931

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User Pre-dilution: 1.00

Run	Time	6Li	9Be	23Na	24Mg	25Mg	26Mg	27Al	39K
1	18:20:16	264261.3100	540.8509	127035.9600	↹1497303.5000	179977.7600	195665.4400	↹39353171.0000	↹1947685.8000
2	18:20:55	268247.3400	543.3511	128505.7400	↹1508877.5000	182736.8400	198839.2600	↹40123573.0000	↹2018143.0000
3	18:21:35	265876.4900	544.1844	129389.2600	↹1520026.4000	182440.4500	201251.1300	↹40486886.0000	↹2031182.7000
4	18:22:14	267351.7400	613.3559	↹126169.0000	↹1511475.8000	181132.3700	198573.0200	↹40150837.0000	↹2039892.5000
5	18:22:54	267207.2200	529.1835	124429.5800	↹1489863.0000	178281.8800	191392.9200	↹39329545.0000	↹1968657.3000
X		266588.8200	554.1852	↹127105.9100	↹1505509.3000	180913.8600	197144.3500	↹39888802.0000	↹2001112.3000
%RSD		0.582	6.067	↹1.535	↹0.793	1.016	1.916	↹1.303	↹2.031

Run	Time	44Ca	45Sc	47Ti	51V	52Cr	54Fe	55Mn	56Fe
1	18:20:16	57316.4350	469877.6200	31017.6180	97196.0380	67635.8670	1409878.3000	1305501.9000	↹23998710.0000
2	18:20:55	58091.7760	474469.6500	31143.0850	96945.6460	68356.7130	1429067.1000	1315202.0000	↹24376794.0000
3	18:21:35	58497.0970	474789.6300	31700.1800	96986.1130	69120.4740	1437187.1000	1330367.8000	↹24503755.0000
4	18:22:14	58162.2650	477703.0000	31509.4580	97355.3820	68986.8740	1416759.6000	1310506.2000	↹23987535.0000
5	18:22:54	56813.0050	477140.8800	30397.8410	96209.6910	67267.9070	1412757.9000	1290537.6000	↹23838196.0000
X		57776.1160	474796.1600	31153.6360	96938.5740	68273.5670	1421130.0000	1310423.1000	↹24140998.0000
%RSD		1.195	0.651	1.617	0.454	1.192	0.815	1.106	↹1.177

Run	Time	57Fe	59Co	60Ni	63Cu	65Cu	66Zn	75As	78Se
1	18:20:16	553914.6400	26346.5830	11337.7070	139739.3800	68296.2200	81314.8000	1799.3609	717.5309
2	18:20:55	564417.9600	26354.1070	11455.3680	142955.7500	69498.6000	82026.7260	1842.7037	681.6946
3	18:21:35	565254.4000	26296.4250	11665.6600	140738.4900	69289.3680	82036.8250	1836.0356	696.6958
4	18:22:14	560829.9500	26218.6800	11580.5410	139098.8000	68805.3830	80635.7490	1831.8680	662.5263
5	18:22:54	557395.6300	25867.5860	11250.0890	137263.7500	66899.9630	79807.8360	1833.5350	715.8641
X		560362.5200	26216.6760	11457.8730	139959.2300	68557.9070	81164.3870	1828.7006	694.8623
%RSD		0.851	0.772	1.485	1.500	1.512	1.176	0.925	3.358

Run	Time	82Se	83Kr	89Y	94Mo	95Mo	96Mo	97Mo	98Mo
1	18:20:16	111.6674	68.3336	747973.6000	4718.8357	477.5137	1417.6206	285.0049	745.0333
2	18:20:55	95.0005	86.6671	750719.8400	4926.4558	475.0135	1367.6122	252.5038	790.0375
3	18:21:35	111.6674	78.3337	752836.0700	4901.4410	452.5123	1302.6018	300.0054	677.5275
4	18:22:14	104.1673	67.5003	761918.4900	4658.8019	515.0159	1300.1014	377.5086	752.5340
5	18:22:54	113.3341	75.0003	761489.2900	4488.7086	505.0153	1227.5904	275.0045	730.0320
X		107.1674	75.1670	754987.4600	4738.8486	485.0141	1323.1053	298.0054	739.0329
%RSD		7.161	10.471	0.844	3.819	5.168	5.475	15.999	5.531

Run	Time	103Rh	107Ag	108Mo O	109Ag	111Cd	115In	118Sn	121Sb
1	18:20:16	862558.8500	155.0014	52.5002	126.2510	223.7530	772124.2700	370.0082	192.5022
2	18:20:55	870532.5400	135.0011	57.5002	155.0014	213.7527	778501.0800	367.5081	140.0012
3	18:21:35	860169.8100	176.2519	45.0001	160.0015	241.2535	779884.3800	327.5064	162.5016
4	18:22:14	876626.9800	167.5017	35.0001	188.7521	192.5022	782437.9200	420.0106	200.0024
5	18:22:54	874405.8000	185.0021	57.5002	140.0012	231.2532	787270.3000	367.5081	180.0019
X		868858.8000	163.7516	49.5002	154.0015	220.5029	780043.5900	370.5083	175.0019
%RSD		0.832	11.924	19.364	15.265	8.443	0.711	8.868	13.814

Run	Time	135Ba	137Ba	159Tb	203Tl	205Tl	206Pb	207Pb	208Pb
1	18:20:16	39618.9560	67938.3130	1213555.7000	377.5086	916.3004	60901.7310	49863.7390	125772.0100
2	18:20:55	39676.7300	69054.9340	1213967.2000	396.2594	965.0559	62299.5060	49720.3860	127716.2400
3	18:21:35	40224.3460	70612.9090	1222045.0000	416.2604	963.8057	62558.9390	50784.2720	129135.3600
4	18:22:14	39960.5820	69140.6410	1224873.6000	396.2594	993.8093	61616.9600	51486.0590	128376.2700
5	18:22:54	38674.5350	67020.9290	1232182.7000	391.2592	995.0594	62055.1940	50374.2950	125924.2800
X		39631.0300	68753.5450	1221324.9000	395.5094	966.8061	61886.4660	50445.7500	127384.8300
%RSD		1.481	1.974	0.641	3.517	3.308	1.051	1.425	1.170

Run	Time	209Bi	220Bkg
1	18:20:16	855122.9100	5.0000
2	18:20:55	858111.7300	0.0000
3	18:21:35	858023.2800	2.5000
4	18:22:14	861393.2800	2.5000
5	18:22:54	871369.8900	0.0000
X		860804.2200	2.0000
%RSD		0.733	104.583

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User Pre-dilution: 1.00

Run	Time	6Li	9Be	23Na	24Mg	25Mg	26Mg	27Al	39K
1	18:24:35	263413.4200	333.3400	81117.8950	T 1311174.0000	158212.7500	172471.5000	T 32073729.0000	1263223.5000
2	18:25:15	269231.6700	386.6756	82885.1570	T 1338432.0000	159512.1800	175794.8800	T 32250140.0000	T 1255213.3000
3	18:25:54	268842.7400	347.5073	84074.4820	T 1327920.9000	157433.2000	176203.3700	T 32603534.0000	T 1273034.6000
4	18:26:34	265592.6500	369.1748	83948.2190	T 1328747.6000	159242.0800	176826.3600	T 32282164.0000	T 1271415.6000
5	18:27:14	271748.9300	350.8407	82859.9080	T 1323692.8000	160032.0000	171047.6000	T 31928633.0000	1265509.5000
X		267765.8800	357.5077	82977.1320	T 1325993.5000	158886.4400	174468.7400	T 32227640.0000	T 1265679.3000
%RSD		1.222	5.793	1.429	T 0.746	0.660	1.462	T 0.788	T 0.562

Run	Time	44Ca	45Sc	47Ti	51V	52Cr	54Fe	55Mn	56Fe
1	18:24:35	59944.8300	466619.4800	37215.4140	74504.0690	52927.5470	941231.0500	1493367.7000	T 16269915.0000
2	18:25:15	61657.2560	469008.1300	38724.7680	74254.3550	54407.0300	944750.3800	1500490.9000	T 16433564.0000
3	18:25:54	61755.4800	478189.7600	37692.5510	74930.3660	54558.0120	953698.7500	1509956.6000	T 16532509.0000
4	18:26:34	61679.9230	480029.9200	38129.5330	74002.1260	53141.4020	951692.6800	1501495.0000	T 16318031.0000
5	18:27:14	60151.3100	475026.3100	37255.5930	73512.8240	52157.7160	936742.5400	1475653.7000	T 16211861.0000
X		61037.7600	473774.7200	37803.5720	74240.7480	53438.3410	945623.0800	1496192.8000	T 16353176.0000
%RSD		1.486	1.222	1.680	0.717	1.913	0.750	0.862	T 0.790

Run	Time	57Fe	59Co	60Ni	63Cu	65Cu	66Zn	75As	78Se
1	18:24:35	375069.8800	22768.5620	8454.2863	87009.3790	42196.5630	93494.0420	1605.9881	659.1927
2	18:25:15	376619.9900	23157.1310	8714.5542	87375.6820	42553.3710	95658.3990	1614.3230	725.0315
3	18:25:54	381551.9200	23658.5360	8867.2151	88537.8520	43344.9350	95304.3770	1625.9919	676.6941
4	18:26:34	375509.0000	23109.4990	8524.3577	89093.7290	43249.4400	93544.6050	1607.6551	745.0333
5	18:27:14	373590.6000	22635.7010	8541.8756	87022.0100	43244.4140	94027.4940	1636.8274	691.6954
X		376468.2800	23065.8860	8620.4578	87807.7300	42917.7450	94405.7830	1618.1571	699.5294
%RSD		0.808	1.727	1.948	1.085	1.195	1.071	0.808	5.019

Run	Time	82Se	83Kr	89Y	94Mo	95Mo	96Mo	97Mo	98Mo
1	18:24:35	93.3339	66.6669	741960.0200	6394.9528	462.5128	1637.6609	287.5050	710.0303
2	18:25:15	99.1673	73.3337	751088.4400	6364.9298	460.0127	1535.1414	260.0041	727.5318
3	18:25:54	98.3339	75.8337	751877.5600	6727.7146	387.5090	1582.6503	212.5027	697.5292
4	18:26:34	95.0005	70.0003	750910.9600	6059.7024	400.0096	1542.6428	270.0044	645.0250
5	18:27:14	90.8338	75.8337	753090.0500	6304.8842	467.5131	1502.6355	205.0025	677.5275
X		95.3339	72.3336	749785.4100	6370.4368	435.5115	1560.1462	247.0037	691.5287
%RSD		3.636	5.489	0.595	3.757	8.832	3.323	14.727	4.592

Run	Time	103Rh	107Ag	108Mo O	109Ag	111Cd	115In	118Sn	121Sb
1	18:24:35	871938.7900	397.5095	42.5001	373.7584	323.7563	783991.7700	1215.0886	277.5046
2	18:25:15	871667.4800	397.5095	65.0003	340.0069	356.2576	789261.0400	1415.1201	247.5037
3	18:25:54	872617.0800	408.7600	70.0003	342.5070	312.5059	785444.4800	1390.1159	285.0049
4	18:26:34	876879.0500	486.2642	60.0002	370.0082	320.0061	783643.7100	1365.1118	247.5037
5	18:27:14	882487.2900	400.0096	90.0005	291.2551	327.5064	784065.7700	1352.6098	222.5030
X		875117.9400	418.0106	65.5003	343.5071	328.0065	785281.3500	1347.6092	256.0040
%RSD		0.529	9.195	26.222	9.612	5.103	0.297	5.779	9.902

Run	Time	135Ba	137Ba	159Tb	203Tl	205Tl	206Pb	207Pb	208Pb
1	18:24:35	24744.1820	44227.0510	1238257.1000	378.7586	928.8018	110872.6900	90357.2240	224470.5500
2	18:25:15	25047.5860	44063.6890	1228833.0000	387.5090	951.3043	111561.8000	89571.3080	226668.8600
3	18:25:54	25579.1980	43726.9220	1234509.9000	405.0098	997.5597	112894.5700	90379.9690	228071.3600
4	18:26:34	25162.9330	44503.5170	1223001.2000	358.7577	968.8063	109783.4100	89058.3540	225071.4300
5	18:27:14	24724.1230	42912.7060	1214787.3000	400.0096	942.5533	107536.9000	87075.0600	217524.9500
X		25051.6040	43886.7770	1227877.7000	386.0090	957.8051	110529.8700	89288.3830	224361.4300
%RSD		1.401	1.396	0.759	4.767	2.771	1.826	1.520	1.815

Run	Time	209Bi	220Bkg
1	18:24:35	866605.6500	0.0000
2	18:25:15	870002.4900	0.0000
3	18:25:54	868084.6000	0.0000
4	18:26:34	868441.5800	2.5000
5	18:27:14	863284.8100	2.5000
X		867283.8300	1.0000
%RSD		0.293	136.931

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User Pre-dilution: 1.00

Run	Time	6Li	9Be	23Na	24Mg	25Mg	26Mg	27Al	39K
1	18:28:55	269494.1200	364.1746	67986.2010	919724.2800	113300.0100	120631.8500	T28450220.0000	T1199050.9000
2	18:29:34	271251.4400	340.0069	68875.9620	927755.6500	113786.5800	123797.7700	T28921570.0000	T1223147.4000
3	18:30:14	271411.5300	387.5090	70769.2260	941602.1800	114247.8200	124609.7400	T28509360.0000	T1227251.3000
4	18:30:54	275070.2800	346.6739	71366.7900	938895.8500	113472.3300	124822.9000	T28739502.0000	1254108.4000
5	18:31:33	276014.0600	358.3410	68611.2930	961856.2800	112935.1100	122879.3300	T28938380.0000	1248384.4000
X		272648.2900	359.3411	69521.8940	937966.8500	113548.3700	123348.3200	T28711806.0000	T1230388.5000
%RSD		1.015	5.116	2.105	1.704	0.438	1.379	T0.789	T1.786

Run	Time	44Ca	45Sc	47Ti	51V	52Cr	54Fe	55Mn	56Fe
1	18:28:55	39076.4040	473634.0700	31772.9560	63120.6510	42176.4620	882944.6400	T1913399.7000	T15386814.0000
2	18:29:34	39259.7620	476787.7500	33901.3180	64188.7630	42068.4180	900922.1700	T1915624.2000	T15549338.0000
3	18:30:14	38722.2560	478257.2200	31163.1600	64171.1280	43478.1260	T914796.3100	T1927483.9000	T15505903.0000
4	18:30:54	39096.4980	478329.9800	32119.2800	62916.6170	42023.1900	890581.7700	T1920726.8000	T15304807.0000
5	18:31:33	38855.3740	478393.4700	32400.3650	64216.4760	42832.2940	889549.7900	T1892697.4000	T15214225.0000
X		39002.0590	477080.5000	32271.4160	63722.7270	42515.6980	T895758.9400	T1913986.4000	T15392217.0000
%RSD		0.545	0.427	3.165	1.015	1.480	T1.388	T0.683	T0.901

Run	Time	57Fe	59Co	60Ni	63Cu	65Cu	66Zn	75As	78Se
1	18:28:55	351187.2400	24706.5710	6710.2005	131451.1500	64128.3010	55871.6730	1646.8294	645.8584
2	18:29:34	352946.7900	25027.5260	6617.6265	132070.8300	63674.8430	55783.5860	1596.8196	633.3574
3	18:30:14	356062.7300	25017.4960	6492.5282	132413.7100	65551.8120	56790.3520	1655.1644	693.3622
4	18:30:54	349216.9800	25265.7430	7010.4475	131672.1000	63732.7840	56840.6930	1616.8235	703.3630
5	18:31:33	353692.4200	25007.4660	6457.5010	131281.0000	64614.5350	55871.6730	1679.3359	718.3643
X		352621.2300	25004.9610	6657.6608	131777.7600	64340.4550	56231.5950	1638.9945	678.8611
%RSD		0.733	0.794	3.326	0.351	1.204	0.951	1.982	5.478

Run	Time	82Se	83Kr	89Y	94Mo	95Mo	96Mo	97Mo	98Mo
1	18:28:55	94.1672	81.6671	746966.5000	2065.2559	392.5092	795.0379	267.5043	602.5218
2	18:29:34	98.3339	72.5003	748803.3900	2532.8849	352.5075	737.5326	245.0036	597.5214
3	18:30:14	93.3339	75.0003	748440.3500	2342.8293	382.5088	787.5372	220.0029	580.0202
4	18:30:54	105.0007	68.3336	753019.0400	2410.3485	412.5102	810.0394	205.0025	562.5190
5	18:31:33	83.3337	80.8337	758130.2600	2190.2878	330.0065	742.5331	242.5035	562.5190
X		94.8339	75.6670	751071.9100	2308.3213	374.0084	774.5360	236.0034	581.0203
%RSD		8.346	7.445	0.605	7.960	8.762	4.205	10.232	3.243

Run	Time	103Rh	107Ag	108Mo O	109Ag	111Cd	115In	118Sn	121Sb
1	18:28:55	867715.1900	163.7516	30.0001	120.0009	290.0051	780958.3100	425.0108	245.0036
2	18:29:34	871288.2300	161.2516	45.0001	152.5014	280.0047	779320.0800	450.0122	237.5034
3	18:30:14	871155.3600	163.7516	35.0001	145.0013	262.5041	781470.6600	412.5102	210.0027
4	18:30:54	874818.4200	146.2513	42.5001	142.5012	288.7550	786787.7600	407.5100	202.5025
5	18:31:33	873813.2100	158.7515	35.0001	133.7511	266.2543	778742.1100	475.0135	202.5025
X		871758.0800	158.7515	37.5001	138.7512	277.5046	781455.7900	434.0113	219.5029
%RSD		0.317	4.591	16.330	8.964	4.561	0.408	6.499	9.232

Run	Time	135Ba	137Ba	159Tb	203Tl	205Tl	206Pb	207Pb	208Pb
1	18:28:55	24039.6240	41538.2680	1213659.3000	330.0065	765.0351	57527.8840	47148.0000	118344.4000
2	18:29:34	23603.3800	41714.1440	1217043.7000	327.5064	845.0428	57198.1260	47794.1650	120248.8700
3	18:30:14	23849.0780	41065.9360	1205025.7000	387.5090	846.2930	58534.8600	47374.2780	119992.7200
4	18:30:54	23826.5140	41292.0490	1199131.9000	307.5057	822.5406	57271.1250	46884.0170	119810.1200
5	18:31:33	23625.9440	41181.5040	1204137.5000	345.0071	792.5377	56795.3860	47542.7330	117888.0000
X		23788.9080	41358.3800	1207799.6000	339.5070	814.2898	57465.4760	47348.6380	119256.8200
%RSD		0.755	0.640	0.608	8.828	4.315	1.136	0.741	0.893

Run	Time	209Bi	220Bkg
1	18:28:55	851125.5900	0.0000
2	18:29:34	856295.9300	2.5000
3	18:30:14	855657.5800	2.5000
4	18:30:54	852693.0800	2.5000
5	18:31:33	852994.1800	7.5000
X		853753.2700	3.0000
%RSD		0.253	91.287

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User Pre-dilution: 1.00

Run	Time	6Li	9Be	23Na	24Mg	25Mg	26Mg	27Al	39K
1	18:33:14	266571.5000	454.1790	87633.3660	T 1482871.4000	175452.7800	190717.7000	T 35165154.0000	T 1629022.4000
2	18:33:53	268594.9400	463.3462	88181.6040	T 1488682.0000	180534.6100	195993.0100	T 35732815.0000	T 1651738.4000
3	18:34:33	272259.3600	500.0150	90802.0200	T 1508641.3000	179405.6200	198066.1700	T 35844528.0000	T 1669095.4000
4	18:35:13	270516.4500	485.8475	91254.4210	T 1501177.3000	179257.4800	196433.1900	T 35596018.0000	T 1680252.6000
5	18:35:53	271344.4000	445.0119	88115.9150	T 1478123.6000	176673.1600	189618.0300	T 35802335.0000	T 1630051.6000
X		269857.3300	469.6799	89197.4650	T 1491899.1000	178264.7300	194165.6200	T 35628170.0000	T 1652032.1000
%RSD		0.845	4.844	1.897	T 0.853	1.186	1.932	T 0.773	T 1.387

Run	Time	44Ca	45Sc	47Ti	51V	52Cr	54Fe	55Mn	56Fe
1	18:33:14	78005.8940	471228.2700	38322.9170	76519.7100	61135.9370	1123240.5000	T 2281272.4000	T 19202364.0000
2	18:33:53	78762.9660	472688.8600	39174.3620	77261.5080	60501.3300	1134096.4000	T 2295648.6000	T 19593198.0000
3	18:34:33	80459.0530	476787.7500	39880.1980	77125.2540	62576.5710	1141425.7000	T 2330101.5000	T 19694266.0000
4	18:35:13	79404.0060	476003.5200	38400.7740	75798.1610	60861.4380	1122474.3000	T 2305214.2000	T 19478045.0000
5	18:35:53	79626.1100	476585.4100	39789.7670	76585.3090	60642.3500	1127799.0000	T 2254285.7000	T 19225797.0000
X		79251.6060	474658.7600	39113.6040	76657.9880	61143.5250	1129807.2000	T 2293304.5000	T 19438734.0000
%RSD		1.165	0.534	1.888	0.757	1.368	0.706	T 1.227	T 1.127

Run	Time	57Fe	59Co	60Ni	63Cu	65Cu	66Zn	75As	78Se
1	18:33:14	440060.2900	30405.3680	10048.5550	73941.5930	36205.9820	178731.3600	1885.2132	692.5288
2	18:33:53	444839.2600	29835.8150	10066.0760	73472.4710	36221.0470	183963.3800	2016.0772	666.6933
3	18:34:33	450973.6500	30026.4980	10243.7920	75124.6030	36607.7310	184832.3000	1910.2189	685.0282
4	18:35:13	444259.5300	30139.4050	10336.4070	74246.7880	36090.4830	182029.1000	1903.5507	656.6925
5	18:35:53	443835.3000	29680.2610	10058.5670	73497.6920	35786.6770	179691.6800	1940.2258	735.8658
X		444793.6100	30017.4690	10150.6790	74056.6290	36182.3840	181849.5600	1931.0572	687.3617
%RSD		0.884	0.931	1.296	0.917	0.815	1.449	2.666	4.456

Run	Time	82Se	83Kr	89Y	94Mo	95Mo	96Mo	97Mo	98Mo
1	18:33:14	104.1673	78.3337	744237.8200	3770.8530	447.5120	1222.5897	315.0060	785.0370
2	18:33:53	106.6674	75.0003	740833.6200	3818.3746	502.5152	1132.5770	342.5070	722.5313
3	18:34:33	100.8339	63.3336	743247.5200	4411.1672	482.5140	1090.0713	290.0051	792.5377
4	18:35:13	86.6671	63.3336	742350.0700	3520.7436	477.5137	1160.0807	260.0041	752.5340
5	18:35:53	110.8341	57.5002	745413.7800	3793.3632	422.5107	1155.0800	327.5064	725.0315
X		101.8340	67.5003	743216.5600	3862.9003	466.5131	1152.0797	307.0057	755.5343
%RSD		9.065	13.007	0.236	8.517	6.753	4.179	10.608	4.324

Run	Time	103Rh	107Ag	108Mo O	109Ag	111Cd	115In	118Sn	121Sb
1	18:33:14	856485.2300	223.7530	65.0003	262.5041	423.7608	772225.5400	1702.6739	292.5051
2	18:33:53	859099.9300	242.5035	47.5001	247.5037	438.7616	773246.5100	1630.1594	307.5057
3	18:34:33	855896.6100	298.7554	67.5003	231.2532	478.7638	774919.1900	1882.7127	365.0080
4	18:35:13	863305.5500	271.2544	77.5004	227.5031	466.2630	770290.6700	1615.1565	257.5040
5	18:35:53	867792.6700	223.7530	65.0003	230.0032	461.2628	764666.3900	1752.6843	330.0065
X		860516.0000	252.0039	64.5003	239.7535	453.7624	771069.6600	1716.6774	310.5059
%RSD		0.582	12.924	16.761	6.239	4.882	0.513	6.304	12.975

Run	Time	135Ba	137Ba	159Tb	203Tl	205Tl	206Pb	207Pb	208Pb
1	18:33:14	36226.0690	64224.0340	1181430.7000	323.7563	911.2998	167295.0700	137243.4200	343756.8400
2	18:33:53	36590.1540	65685.3580	1195889.2000	406.2599	898.7985	169208.1200	139358.0800	350629.4700
3	18:34:33	37421.3330	64994.9760	1184846.0000	427.5110	1011.3114	171708.4900	139492.8000	350527.8300
4	18:35:13	36464.6060	64753.1040	1179670.6000	441.2617	958.8052	168968.3300	138514.1800	346233.7900
5	18:35:53	36115.5910	64080.4340	1199074.4000	392.5092	1001.3102	165132.5700	137517.8800	340020.6500
X		36563.5510	64747.5810	1188182.2000	398.2596	956.3050	168462.5200	138425.2700	346233.7200
%RSD		1.408	0.995	0.738	11.474	5.329	1.448	0.744	1.312

Run	Time	209Bi	220Bkg
1	18:33:14	841556.8400	2.5000
2	18:33:53	843159.8700	0.0000
3	18:34:33	839572.0800	2.5000
4	18:35:13	833259.4200	5.0000
5	18:35:53	845511.1500	2.5000
X		840611.8700	2.5000
%RSD		0.553	70.711

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User Pre-dilution: 1.00

Run	Time	6Li	9Be	23Na	24Mg	25Mg	26Mg	27Al	39K
1	18:37:34	267567.6800	620.8565	T132017.2200	T1599107.9000	192891.9000	206661.1400	T47043465.0000	T2085650.7000
2	18:38:14	271467.4800	641.6914	138415.0600	T1634113.4000	191050.1900	211659.2700	T47220199.0000	T2110738.7000
3	18:38:53	271768.7300	645.0250	T137708.3000	T1635672.4000	194570.2400	212515.6600	T47470977.0000	T2131459.2000
4	18:39:33	274692.2800	641.6914	T163783.9700	T1636475.5000	193690.0900	215208.4600	T47597930.0000	T2125962.1000
5	18:40:12	272122.4900	664.1931	134867.6000	T1621382.0000	193864.0700	211664.4000	T47318567.0000	T2142428.1000
X		271523.7300	642.6915	T141358.4300	T1625350.2000	193213.3000	211541.7900	T47330228.0000	T2119247.8000
%RSD		0.941	2.394	T9.048	T0.978	0.698	1.462	T0.456	T1.037

Run	Time	44Ca	45Sc	47Ti	51V	52Cr	54Fe	55Mn	56Fe
1	18:37:34	53179.1420	473188.5500	45370.6750	110730.8200	75162.4420	1561290.1000	1588425.8000	T26203581.0000
2	18:38:14	54442.2590	476941.1700	47097.7170	111402.1800	76971.3410	1585723.9000	1621784.2000	T26424202.0000
3	18:38:53	54708.9970	478802.2200	47967.6580	112947.7800	77745.9820	T1612636.9000	1638678.0000	T26797605.0000
4	18:39:33	54839.8530	479599.9400	46567.2480	111392.0500	77705.6080	1582714.0000	1611014.0000	T26804971.0000
5	18:40:12	54618.4060	476523.2500	47251.0810	111138.7000	76020.1700	1590564.5000	1624225.8000	T26873104.0000
X		54357.7310	477011.0300	46850.8760	111522.3100	76721.1090	T1586585.9000	1616825.5000	T26620693.0000
%RSD		1.241	0.522	2.064	0.755	1.458	T1.158	1.156	T1.098

Run	Time	57Fe	59Co	60Ni	63Cu	65Cu	66Zn	75As	78Se
1	18:37:34	613595.3200	30222.2040	13303.1100	66572.3550	32746.7150	77453.2760	1835.2021	690.0286
2	18:38:14	615683.7300	31311.2130	13593.5780	66557.2350	33296.3860	78200.2030	1881.8791	729.1986
3	18:38:53	624179.6700	31368.9300	13646.1640	66889.8820	33826.0130	79787.6440	1913.5530	674.1939
4	18:39:33	621532.3700	31602.3090	13490.9110	68828.0690	33602.6120	80580.2160	1928.5565	643.3582
5	18:40:12	626475.1900	31148.1040	13523.4640	67489.6890	32375.2680	80327.7960	1929.3900	762.5349
X		620293.2600	31130.5520	13511.4460	67267.4460	33169.3990	79269.8270	1897.7161	699.8628
%RSD		0.887	1.713	0.971	1.413	1.812	1.733	2.102	6.678

Run	Time	82Se	83Kr	89Y	94Mo	95Mo	96Mo	97Mo	98Mo
1	18:37:34	106.6674	75.8337	748126.4500	5521.8288	447.5120	1340.1077	265.0042	687.5284
2	18:38:14	105.8340	78.3337	750381.2900	5016.5095	512.5158	1372.6130	275.0045	730.0320
3	18:38:53	108.3340	62.5002	750015.4500	5059.0352	450.0122	1317.6042	275.0045	680.0278
4	18:39:33	93.3339	80.0004	T832289.5800	4926.4558	455.0124	1477.6310	262.5041	655.0257
5	18:40:12	97.5006	65.8336	758037.3500	5214.1307	397.5095	1340.1077	350.0074	740.0329
X		102.3340	72.5003	T767770.0300	5147.5920	452.5124	1369.6127	285.5050	698.5293
%RSD		6.397	10.813	T4.724	4.539	9.019	4.635	12.786	5.097

Run	Time	103Rh	107Ag	108Mo O	109Ag	111Cd	115In	118Sn	121Sb
1	18:37:34	857529.9100	181.2520	50.0001	138.7512	230.0032	761858.3400	497.5149	175.0018
2	18:38:14	852686.1700	192.5022	65.0003	138.7512	228.7531	765546.9900	535.0172	212.5027
3	18:38:53	863418.9500	187.5021	47.5001	156.2515	280.0047	766712.1600	552.5183	237.5034
4	18:39:33	855810.9500	186.2521	52.5002	172.5018	242.5035	764215.1800	572.5197	242.5035
5	18:40:12	859954.1700	148.7513	42.5001	175.0018	220.0029	769182.4900	490.0144	215.0028
X		857880.0300	179.2519	51.5002	156.2515	240.2535	765503.0300	529.5169	216.5029
%RSD		0.475	9.770	16.318	11.214	9.834	0.357	6.672	12.346

Run	Time	135Ba	137Ba	159Tb	203Tl	205Tl	206Pb	207Pb	208Pb
1	18:37:34	39244.6920	69117.9540	1183888.1000	460.0127	1046.3157	65163.7870	53835.8380	135451.9600
2	18:38:14	41417.6700	70259.9440	1180456.0000	506.2654	1022.5627	66015.4510	54764.3590	137505.1800
3	18:38:53	40367.5360	70726.3650	1177268.8000	450.0122	1008.8111	68296.2200	55569.6640	138432.8500
4	18:39:33	40952.8820	71787.8840	1192056.4000	476.2636	1121.3254	68366.7950	55146.8690	139386.0400
5	18:40:12	40432.8520	72372.9120	1201729.1000	443.7618	1083.8205	67593.0220	55637.6150	139169.9700
X		40483.1260	70853.0120	1187079.7000	467.2631	1056.5671	67087.0550	54990.8690	137989.2000
%RSD		2.008	1.808	0.831	5.355	4.357	2.135	1.337	1.158

Run	Time	209Bi	220Bkg
1	18:37:34	829514.5100	2.5000
2	18:38:14	829999.4100	0.0000
3	18:38:53	827960.8000	2.5000
4	18:39:33	839605.1700	0.0000
5	18:40:12	836437.9200	5.0000
X		832703.5600	2.0000
%RSD		0.605	104.583

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User Pre-dilution: 1.00

Run	Time	6Li	9Be	23Na	24Mg	25Mg	26Mg	27Al	39K
1	18:41:54	271585.3900	520.8496	T 133061.1500	T 5232838.3000	622153.7600	676714.4500	T 44490829.0000	T 2185701.3000
2	18:42:34	267543.5900	540.8509	137705.9500	T 5307809.8000	630863.4100	696287.4500	T 44796435.0000	T 2229765.3000
3	18:43:14	269725.6000	487.5143	136831.7300	T 5381080.6000	646539.1600	706049.7800	T 45512631.0000	T 2256861.3000
4	18:43:57	270964.8400	515.8493	137583.9600	T 5330485.5000	631709.0000	690309.5100	T 45141916.0000	T 2244147.9000
5	18:44:37	270741.0800	538.3507	136539.4900	T 5276347.3000	631375.0600	688932.2300	T 44919911.0000	T 2168846.4000
X		270112.1000	520.6830	T 136344.4600	T 5305712.3000	632528.0800	691658.6800	T 44972345.0000	T 2217064.4000
%RSD		0.587	4.122	T 1.394	T 1.052	1.389	1.552	T 0.851	T 1.716

Run	Time	44Ca	45Sc	47Ti	51V	52Cr	54Fe	55Mn	56Fe
1	18:41:54	278944.2400	462454.1400	43171.5380	96750.9030	66479.1150	1489806.7000	T 2432097.5000	T 25314506.0000
2	18:42:34	284554.2100	471759.6100	44523.6240	97909.3150	69102.8290	1510432.4000	T 2481872.1000	T 25688528.0000
3	18:43:14	287358.0000	470237.0700	45654.7200	98033.2590	67371.2370	1529948.7000	T 2507273.8000	T 25959711.0000
4	18:43:57	282640.7200	470835.7400	44365.2830	97937.1390	67729.1200	1517143.5000	T 2471430.5000	T 25694052.0000
5	18:44:37	280117.6300	471345.9000	44292.3970	96677.5590	66862.1610	1503952.1000	T 2442330.5000	T 25446906.0000
X		282722.9600	469326.4900	44401.5120	97461.6350	67508.8920	1510256.7000	T 2467000.9000	T 25620741.0000
%RSD		1.198	0.828	1.986	0.702	1.497	0.989	T 1.231	T 0.974

Run	Time	57Fe	59Co	60Ni	63Cu	65Cu	66Zn	75As	78Se
1	18:41:54	587547.4000	30172.0220	12063.7260	72920.1510	35437.6900	101433.5900	3130.5879	639.1912
2	18:42:34	599363.4700	31188.2530	12138.8350	73749.9050	36042.7770	102109.2700	3253.1348	678.3609
3	18:43:14	603150.0800	31358.8920	12722.2040	74259.4000	36200.9600	103521.5300	3145.5936	730.0320
4	18:43:57	589265.0500	30816.8760	12404.2250	72854.5810	36090.4830	102116.8600	3162.2665	700.0294
5	18:44:37	591891.7500	31025.1460	12536.9230	71992.1350	35854.4670	100193.7300	3130.5879	697.5292
X		594243.5500	30912.2380	12373.1830	73155.2340	35925.2750	101875.0000	3164.4342	689.0285
%RSD		1.131	1.487	2.214	1.198	0.835	1.187	1.621	4.853

Run	Time	82Se	83Kr	89Y	94Mo	95Mo	96Mo	97Mo	98Mo
1	18:41:54	111.6674	72.5003	732048.3200	4568.7521	647.5252	1410.1193	467.5131	1125.0759
2	18:42:34	105.0007	63.3336	737482.5500	4226.0713	745.0333	1470.1297	420.0106	1185.0843
3	18:43:14	107.5007	80.0004	743337.5400	4893.9366	745.0333	1512.6373	420.0106	1120.0753
4	18:43:57	112.5008	65.8336	737463.4700	4153.5349	750.0338	1435.1236	412.5102	1177.5832
5	18:44:37	100.0006	89.1671	745290.9900	4248.5828	690.0286	1465.1288	422.5107	1132.5770
X		107.3340	74.1670	739124.5700	4418.1755	715.5308	1458.6277	428.5110	1148.0791
%RSD		4.767	14.279	0.714	7.019	6.330	2.655	5.163	2.682

Run	Time	103Rh	107Ag	108Mo O	109Ag	111Cd	115In	118Sn	121Sb
1	18:41:54	843859.3900	346.2572	40.0001	333.7567	315.0060	756772.2600	790.0375	265.0042
2	18:42:34	850714.0800	391.2592	60.0002	360.0078	340.0069	762766.0000	795.0379	270.0044
3	18:43:14	846050.7600	395.0094	60.0002	412.5102	330.0065	762328.5700	750.0338	287.5050
4	18:43:57	853838.1500	407.5100	37.5001	346.2572	296.2553	770331.7100	820.0404	290.0051
5	18:44:37	850645.0400	390.0091	40.0001	372.5083	305.0056	764433.9400	870.0454	265.0042
X		849021.4800	386.0090	47.5001	365.0080	317.2561	763326.5000	805.0390	275.5046
%RSD		0.472	6.030	24.119	8.294	5.630	0.637	5.486	4.464

Run	Time	135Ba	137Ba	159Tb	203Tl	205Tl	206Pb	207Pb	208Pb
1	18:41:54	31577.2140	56060.4340	1179085.8000	457.5126	1103.8231	103073.5300	84569.4530	211508.0000
2	18:42:34	33037.8600	57147.7830	1180954.8000	475.0135	1138.8278	105225.1700	87014.4310	218802.7600
3	18:43:14	32631.2630	57734.3050	1185296.3000	485.0141	1181.3337	106939.2900	86883.0710	216575.7000
4	18:43:57	32651.3420	57152.8170	1194051.5000	460.0127	1135.0773	105602.4000	87274.6310	217617.3200
5	18:44:37	32443.0300	56113.2880	1183945.4000	452.5123	1173.8327	103379.7900	85349.8490	211938.7400
X		32468.1420	56841.7250	1184666.8000	466.0130	1146.5789	104844.0400	86218.2870	215288.5000
%RSD		1.672	1.283	0.488	2.904	2.748	1.537	1.380	1.557

Run	Time	209Bi	220Bkg
1	18:41:54	822259.3500	0.0000
2	18:42:34	834672.1000	2.5000
3	18:43:14	829292.7300	0.0000
4	18:43:57	833690.7800	2.5000
5	18:44:37	829302.3700	2.5000
X		829843.4600	1.5000
%RSD		0.591	91.287

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User Pre-dilution: 1.00

Run	Time	6Li	9Be	23Na	24Mg	25Mg	26Mg	27Al	39K
1	18:46:20	263591.4200	396.6761	91969.7210	T2083753.3000	247527.3900	274678.5000	T37293032.0000	T1673939.8000
2	18:46:59	269910.6100	440.8450	94366.2920	T2141623.5000	255430.6000	277008.7600	T37845291.0000	T1711201.5000
3	18:47:39	270686.0000	440.8450	98015.5530	T2160118.3000	255069.7900	280952.5500	T38152305.0000	T1737318.6000
4	18:48:19	269189.5100	458.3459	96186.9300	T2181920.1000	256507.9400	281273.0900	T38340304.0000	T1729763.3000
5	18:48:58	272437.5400	420.8440	94234.8160	T2158653.9000	257631.8300	278807.2700	T38211794.0000	T1722195.5000
X		269163.0100	431.5112	94954.6620	T2145213.8000	254433.5100	278544.0300	T37968545.0000	T1714883.7000
%RSD		1.241	5.462	2.394	T1.735	1.568	0.993	T1.104	T1.449

Run	Time	44Ca	45Sc	47Ti	51V	52Cr	54Fe	55Mn	56Fe
1	18:46:20	98592.2970	457935.8500	37762.8690	82039.3490	54482.5200	1230908.4000	T1887066.4000	T21242139.0000
2	18:46:59	100768.0900	467676.3200	38513.7940	83316.9310	55141.8360	1258936.6000	T1917459.5000	T21486867.0000
3	18:47:39	101385.5100	467019.7400	37293.2610	84122.4630	55642.6480	1261450.1000	1951119.8000	T21565753.0000
4	18:48:19	102015.6300	470653.3600	38589.1410	83412.8840	56002.5470	1250137.9000	T1917390.0000	T21426324.0000
5	18:48:58	102200.3800	472901.6900	37049.6780	83897.7140	54666.2180	1247070.2000	1942348.5000	T21485925.0000
X		100992.3800	467237.3900	37841.7480	83357.8680	55187.1540	1249700.6000	T1923076.9000	T21441402.0000
%RSD		1.441	1.223	1.843	0.971	1.161	0.967	T1.305	T0.569

Run	Time	57Fe	59Co	60Ni	63Cu	65Cu	66Zn	75As	78Se
1	18:46:20	491159.9400	28694.3170	9450.3555	62768.0020	30209.6580	67903.0270	1871.8769	678.3609
2	18:46:59	494700.4300	29788.1450	9407.8074	63561.4830	31293.6470	69155.7650	1809.3631	721.6979
3	18:47:39	499979.4300	29660.1900	9335.2259	63979.6650	31441.7030	69140.6410	1959.3970	700.0294
4	18:48:19	492643.8000	29883.4850	9445.3498	64385.2710	30992.5250	69380.1190	1815.1977	680.8612
5	18:48:58	496243.2300	29707.8590	9450.3555	63644.6140	31311.2130	68800.3420	1834.3685	663.3597
X		494945.3700	29546.7990	9417.8188	63667.8070	31049.7490	68875.9790	1858.0406	688.8618
%RSD		0.690	1.638	0.525	0.940	1.603	0.845	3.321	3.268

Run	Time	82Se	83Kr	89Y	94Mo	95Mo	96Mo	97Mo	98Mo
1	18:46:20	99.1673	74.1670	734628.7500	3383.1866	472.5134	1132.5770	297.5053	837.5421
2	18:46:59	88.3338	80.8337	739341.9700	3620.7864	457.5126	1147.5790	297.5053	782.5367
3	18:47:39	95.0005	80.8337	733377.9500	3458.2174	502.5152	1115.0746	285.0049	792.5377
4	18:48:19	95.8339	66.6669	739759.1700	3750.8439	487.5143	1107.5736	327.5064	810.0394
5	18:48:58	82.5004	78.3337	746172.3700	3738.3383	515.0159	1125.0759	250.0038	772.5358
X		92.1672	76.1670	738656.0400	3590.2745	487.0143	1125.5760	291.5051	799.0383
%RSD		7.250	7.836	0.685	4.597	4.711	1.382	9.600	3.203

Run	Time	103Rh	107Ag	108Mo O	109Ag	111Cd	115In	118Sn	121Sb
1	18:46:20	852523.2000	220.0029	30.0001	173.7518	231.2532	759851.9800	635.0242	250.0038
2	18:46:59	860703.4200	243.7536	62.5002	185.0021	216.2528	765393.8400	627.5236	195.0023
3	18:47:39	862492.4800	235.0033	30.0001	225.0030	215.0028	767095.1100	547.5180	195.0023
4	18:48:19	859036.3500	225.0030	27.5000	216.2528	218.7529	769343.9200	567.5193	225.0030
5	18:48:58	862838.1600	228.7531	40.0001	221.2529	258.7540	771932.6800	512.5158	212.5027
X		859518.7200	230.5032	38.0001	204.2525	228.0031	766723.5000	578.0202	215.5028
%RSD		0.488	3.996	38.192	11.389	8.054	0.595	9.085	10.708

Run	Time	135Ba	137Ba	159Tb	203Tl	205Tl	206Pb	207Pb	208Pb
1	18:46:20	26940.9790	46454.1190	1189588.2000	421.2607	950.0542	77251.4150	62357.4370	159180.9300
2	18:46:59	27246.9710	47057.4900	1185947.4000	403.7598	978.8075	77142.9170	64765.7020	161255.2400
3	18:47:39	27096.4820	47550.2760	1206161.2000	445.0119	1031.3138	77978.1360	65385.5140	162493.9600
4	18:48:19	26785.4790	47565.3620	1192116.6000	442.5118	1076.3195	78182.5380	64773.2600	159761.8900
5	18:48:58	27211.8570	47678.5050	1219182.7000	385.0089	957.5550	79174.3360	64093.0310	161497.3700
X		27056.3530	47261.1500	1198599.2000	419.5106	998.8100	77945.8680	64274.9890	160837.8800
%RSD		0.713	1.081	1.153	6.102	5.378	1.053	1.813	0.837

Run	Time	209Bi	220Bkg
1	18:46:20	841091.9800	5.0000
2	18:46:59	848253.7200	0.0000
3	18:47:39	843466.1600	2.5000
4	18:48:19	843915.9600	0.0000
5	18:48:58	862828.4800	2.5000
X		847911.2600	2.0000
%RSD		1.030	104.583

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User Pre-dilution: 1.00

Run	Time	6Li	9Be	23Na	24Mg	25Mg	26Mg	27Al	39K
1	18:50:40	265839.5000	407.5100	71997.1780	1114318.3000	131443.5300	147005.3000	T29533554.0000	T1224264.3000
2	18:51:20	269383.9700	370.8416	75596.3400	1142538.9000	135238.5300	144863.2700	T29890437.0000	1292148.4000
3	18:52:00	273813.2100	422.5107	76252.2760	1149495.2000	136056.6900	152324.5600	T30413563.0000	T1277264.0000
4	18:52:40	269379.6700	377.5086	75818.3430	1129873.9000	137235.7900	152696.2700	T30134536.0000	T1270110.4000
5	18:53:19	271418.4200	395.8427	80221.7820	1130552.3000	137296.7800	148486.2100	T29601915.0000	T1259342.3000
X		269966.9500	394.8427	75977.1840	1133355.7000	135454.2700	149075.1200	T29914801.0000	T1264625.9000
%RSD		1.090	5.378	3.843	1.190	1.773	2.276	T1.229	T2.018

Run	Time	44Ca	45Sc	47Ti	51V	52Cr	54Fe	55Mn	56Fe
1	18:50:40	56616.6760	462010.5300	32131.8280	66431.2350	52497.3390	979001.0600	1947367.7000	T16819942.0000
2	18:51:20	57120.0940	470767.0200	32430.4820	66005.3710	53377.9060	986236.8300	1962947.5000	T16848224.0000
3	18:52:00	57563.1270	472304.1900	33354.1170	65544.2530	52781.6260	987179.2300	1980628.0000	T17129710.0000
4	18:52:40	58079.1890	472437.7000	32701.5380	65798.7470	53365.3260	990116.4700	T1953539.1000	T17011802.0000
5	18:53:19	56218.9970	473778.1800	32503.2640	65231.8160	52587.9070	979340.1400	T1929597.2000	T17025845.0000
X		57119.6160	470259.5200	32624.2460	65802.2850	52922.0210	984374.7500	T1954815.9000	T16967105.0000
%RSD		1.293	1.006	1.399	0.692	0.799	0.504	T0.966	T0.767

Run	Time	57Fe	59Co	60Ni	63Cu	65Cu	66Zn	75As	78Se
1	18:50:40	386130.7600	26058.1780	8559.3935	66136.4040	32648.8320	139871.5700	1735.1806	680.0278
2	18:51:20	389214.3500	26742.8420	8862.2098	66612.6750	32510.7940	141961.4700	1730.1796	653.3590
3	18:52:00	391866.9300	26720.2700	8959.8141	68066.8550	32576.0480	140781.7100	1688.5044	672.5271
4	18:52:40	390245.9600	26935.9630	9072.4359	67136.8560	32445.5400	143530.5100	1782.6907	687.5284
5	18:53:19	389499.7300	26045.6390	8847.1939	66675.6760	32219.6660	141663.9700	1680.1694	641.6914
X		389391.5400	26500.5780	8860.2094	66925.6930	32480.1760	141561.8500	1723.3449	667.0267
%RSD		0.538	1.578	2.153	1.090	0.505	0.968	2.390	2.853

Run	Time	82Se	83Kr	89Y	94Mo	95Mo	96Mo	97Mo	98Mo
1	18:50:40	128.3343	84.1671	734781.3600	3623.2875	410.0101	1070.0687	232.5032	717.5309
2	18:51:20	99.1673	72.5003	738960.2400	3563.2616	430.0111	1085.0706	232.5032	572.5197
3	18:52:00	94.1672	93.3339	741981.8400	3540.7521	387.5090	1005.0606	297.5053	597.5214
4	18:52:40	117.5008	77.5004	739137.4700	3605.7799	425.0108	945.0536	252.5038	637.5244
5	18:53:19	100.0006	83.3337	742429.1700	3620.7864	392.5092	1067.5684	237.5034	675.0273
X		107.8340	82.1671	739458.0200	3590.7735	409.0101	1034.5644	250.5038	640.0247
%RSD		13.414	9.530	0.414	1.027	4.627	5.674	10.987	9.111

Run	Time	103Rh	107Ag	108Mo O	109Ag	111Cd	115In	118Sn	121Sb
1	18:50:40	857416.5900	223.7530	45.0001	207.5026	370.0082	761907.5500	912.5500	242.5035
2	18:51:20	860308.0500	228.7531	57.5002	213.7527	410.0101	768276.8900	840.0423	220.0029
3	18:52:00	861372.5400	226.2531	45.0001	212.5027	350.0074	769458.8300	937.5527	230.0032
4	18:52:40	864539.1400	266.2543	90.0005	213.7527	397.5095	771773.9400	825.0408	212.5027
5	18:53:19	870120.1200	233.7533	22.5000	200.0024	367.5081	777317.9100	827.5411	232.5032
X		862751.2900	235.7534	52.0002	209.5026	379.0087	769747.0200	868.5454	227.5031
%RSD		0.561	7.400	47.521	2.818	6.406	0.727	6.061	5.095

Run	Time	135Ba	137Ba	159Tb	203Tl	205Tl	206Pb	207Pb	208Pb
1	18:50:40	30488.1700	52962.7700	1189734.5000	335.0067	786.2871	143217.6900	118816.0400	292717.2700
2	18:51:20	29978.8270	53584.2240	1188632.6000	328.7565	791.2876	142068.2700	118004.6300	292287.5800
3	18:52:00	30809.3480	52952.7070	1205922.6000	331.2566	936.3026	144692.8500	119389.1400	298253.4800
4	18:52:40	30857.0240	52708.6670	1200887.2000	360.0078	828.7912	143983.2200	120058.6600	298569.4900
5	18:53:19	30412.8960	53508.7410	1208470.1000	350.0074	845.0428	144830.2000	119810.1200	298727.5100
X		30509.2530	53143.4220	1198729.4000	341.0070	837.5423	143758.4500	119215.7200	296111.0700
%RSD		1.161	0.720	0.762	3.943	7.226	0.795	0.692	1.115

Run	Time	209Bi	220Bkg
1	18:50:40	839063.2000	0.0000
2	18:51:20	841003.7100	0.0000
3	18:52:00	845123.3600	0.0000
4	18:52:40	849932.5400	7.5000
5	18:53:19	859282.3800	2.5000
X		846881.0400	2.0000
%RSD		0.955	162.980

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User Pre-dilution: 1.00

Run	Time	6Li	9Be	23Na	24Mg	25Mg	26Mg	27Al	39K
1	18:55:01	268274.8800	370.0082	82127.7130	1096648.5000	133678.6700	145550.0900	τ32864579.0000	τ1484594.2000
2	18:55:41	270292.7000	388.3424	81279.4570	τ1135272.1000	136016.0400	148496.3900	τ33057139.0000	τ1504448.7000
3	18:56:20	268770.4700	400.8430	82115.0900	1125775.9000	137794.9000	148715.2400	τ33553249.0000	τ1510573.2000
4	18:57:00	272323.9200	400.0096	82097.4170	1157051.6000	136966.4100	152874.4900	τ33802182.0000	τ1537995.5000
5	18:57:40	272792.2000	415.0103	85784.2760	1127086.6000	137174.8000	149132.6000	τ33081189.0000	τ1500143.9000
x		270490.8300	394.8427	82680.7910	τ1128366.9000	136326.1600	148953.7600	τ33271668.0000	τ1507551.1000
%RSD		0.752	4.254	2.143	τ1.924	1.182	1.752	τ1.173	τ1.296

Run	Time	44Ca	45Sc	47Ti	51V	52Cr	54Fe	55Mn	56Fe
1	18:55:01	46034.2990	469014.7400	38031.5870	73512.8240	50673.6020	1139359.5000	τ2536763.1000	τ19666152.0000
2	18:55:41	47095.2030	471692.2000	38116.9750	74476.3230	51556.4920	1155259.1000	τ2561622.6000	τ19942789.0000
3	18:56:20	47743.8780	475583.0000	39711.8970	74705.8640	52044.5120	1170602.9000	τ2581421.1000	τ20045853.0000
4	18:57:00	48626.4590	475684.8300	38651.9310	75417.2280	52464.6340	τ1192901.3000	τ2593837.0000	τ20042803.0000
5	18:57:40	47859.5390	474552.9500	37936.1530	73752.4270	51709.9390	1165118.1000	τ2578640.4000	τ20040160.0000
x		47471.8760	473305.5400	38489.7090	74372.9330	51689.8360	τ1164648.2000	τ2570456.8000	τ19947552.0000
%RSD		2.044	0.611	1.916	1.028	1.289	τ1.697	τ0.858	τ0.818

Run	Time	57Fe	59Co	60Ni	63Cu	65Cu	66Zn	75As	78Se
1	18:55:01	455091.1900	34923.0240	8251.5833	56057.9170	27186.7750	123067.0700	1844.3707	643.3582
2	18:55:41	453816.9400	35018.4230	8239.0709	56845.7270	27921.6990	123160.9400	1875.2110	670.0269
3	18:56:20	460646.8000	35934.8120	8639.4761	57694.0270	27796.2810	125320.2800	1851.8724	661.6929
4	18:57:00	463738.9200	35756.5480	8344.1754	56896.0690	28177.5580	123696.2800	1888.5473	696.6958
5	18:57:40	459091.9200	35186.6290	8539.3730	55725.7000	28468.5450	124866.0400	1939.3923	684.1948
x		458477.1600	35363.8870	8402.7358	56643.8880	27910.1720	124022.1200	1879.8787	671.1937
%RSD		0.886	1.284	2.127	1.366	1.718	0.822	2.005	3.059

Run	Time	82Se	83Kr	89Y	94Mo	95Mo	96Mo	97Mo	98Mo
1	18:55:01	97.5006	77.5004	739412.8700	4796.3799	550.0181	1432.6231	292.5051	880.0465
2	18:55:41	83.3337	76.6670	730969.5100	4936.4617	510.0156	1335.1069	355.0076	810.0394
3	18:56:20	86.6671	84.1671	746789.1100	4778.8699	462.5128	1422.6214	352.5075	885.0470
4	18:57:00	104.1673	70.0003	742841.0600	4886.4322	500.0150	1470.1297	342.5070	877.5462
5	18:57:40	100.8339	75.8337	739903.7000	4761.3598	587.5207	1335.1069	310.0058	920.0508
x		94.5005	76.8337	739983.2500	4831.9007	522.0165	1399.1176	330.5066	874.5460
%RSD		9.591	6.571	0.788	1.568	9.209	4.364	8.413	4.567

Run	Time	103Rh	107Ag	108Mo O	109Ag	111Cd	115In	118Sn	121Sb
1	18:55:01	857463.5800	140.0012	45.0001	135.0011	241.2535	760119.8300	540.0175	217.5028
2	18:55:41	861884.1000	181.2520	72.5003	127.5010	226.2531	768659.9100	575.0198	197.5023
3	18:56:20	862586.5000	171.2518	42.5001	161.2516	273.7545	776236.2100	547.5180	255.0039
4	18:57:00	864630.4200	198.7524	45.0001	163.7516	262.5041	776326.5800	607.5221	205.0025
5	18:57:40	861986.4100	172.5018	65.0003	140.0012	283.7548	770758.6100	602.5218	197.5023
x		861710.2000	172.7518	54.0002	145.5013	257.5040	770420.2300	574.5199	214.5028
%RSD		0.304	12.358	25.484	11.112	9.146	0.866	5.360	11.222

Run	Time	135Ba	137Ba	159Tb	203Tl	205Tl	206Pb	207Pb	208Pb
1	18:55:01	28646.6530	50208.2980	1184389.9000	381.2587	891.2977	66038.1290	54220.8220	137182.4200
2	18:55:41	28443.4590	50691.2080	1200157.5000	348.7573	861.2945	67043.6100	55554.5630	138633.6400
3	18:56:20	29296.4060	50985.4960	1215492.4000	432.5112	953.8046	66012.9310	55245.0160	137749.1600
4	18:57:00	29263.7920	51428.2030	1210581.1000	382.5088	881.2966	66378.3160	55323.0310	137070.6100
5	18:57:40	29085.6700	50520.1740	1189723.0000	395.0094	892.5478	66713.4770	54009.4560	137522.9700
x		28947.1960	50766.6760	1200068.8000	388.0091	896.0482	66437.2930	54870.5780	137631.7600
%RSD		1.322	0.915	1.103	7.781	3.864	0.668	1.281	0.452

Run	Time	209Bi	220Bkg
1	18:55:01	842539.0400	2.5000
2	18:55:41	849291.9000	2.5000
3	18:56:20	847244.6500	0.0000
4	18:57:00	842694.9300	2.5000
5	18:57:40	849726.8200	0.0000
x		846299.4700	1.5000
%RSD		0.412	91.287

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User Pre-dilution: 1.00

Run	Time	6Li	9Be	23Na	24Mg	25Mg	26Mg	27Al	39K
1	18:59:24	263758.2400	27.5000	17092.5110	615.0227	80.0004	115.0008	14492.5910	27776.2140
2	19:00:04	269925.2400	26.6667	17235.3050	585.0205	100.0006	70.0003	11595.5620	28561.3610
3	19:00:44	272124.2200	30.8334	17410.6690	500.0150	60.0002	55.0002	9325.2147	29063.0920
4	19:01:24	268753.2600	30.0001	17250.3360	405.0098	45.0001	50.0001	8246.5783	28591.4640
5	19:02:03	276137.2100	23.3334	17696.2700	295.0052	30.0001	50.0001	6815.2857	28839.8180
X		270139.6300	27.6667	17337.0180	480.0147	63.0003	68.0003	10095.0460	28566.3900
%RSD		1.682	10.734	1.328	27.462	44.046	40.475	29.864	1.703

Run	Time	44Ca	45Sc	47Ti	51V	52Cr	54Fe	55Mn	56Fe
1	18:59:24	220.0029	461515.4400	30.0001	712.5305	990.0588	2870.4943	867.5452	98880.6830
2	19:00:04	182.5020	466445.1100	57.5002	590.0209	905.0491	2450.3602	622.5233	98258.3870
3	19:00:44	180.0019	464759.7500	50.0001	292.5051	935.0525	2600.4057	462.5128	97018.9930
4	19:01:24	207.5026	470262.1800	22.5000	295.0052	1032.5640	2447.8595	397.5095	98076.2610
5	19:02:03	167.5017	478620.9900	22.5000	680.0278	982.5579	2517.8803	300.0054	98182.5010
X		191.5022	468320.6900	36.5001	514.0179	969.0565	2577.4000	530.0192	98083.3650
%RSD		11.253	1.402	44.547	40.080	5.136	6.801	41.924	0.686

Run	Time	57Fe	59Co	60Ni	63Cu	65Cu	66Zn	75As	78Se
1	18:59:24	742.5331	20.0000	52.5002	340.0069	147.5013	355.0076	28.3334	600.8550
2	19:00:04	795.0379	25.0000	50.0001	282.5048	145.0013	305.0056	20.8334	640.8580
3	19:00:44	677.5275	25.0000	50.0001	350.0074	195.0023	265.0042	20.0000	665.8599
4	19:01:24	670.0269	7.5000	75.0003	305.0056	165.0016	312.5059	5.8333	626.6902
5	19:02:03	715.0307	20.0000	60.0002	375.0084	137.5011	282.5048	25.8334	605.0220
X		720.0312	19.5000	57.5002	330.5066	158.0015	304.0056	20.1667	627.8570
%RSD		7.104	36.712	18.446	11.123	14.562	11.225	43.280	4.263

Run	Time	82Se	83Kr	89Y	94Mo	95Mo	96Mo	97Mo	98Mo
1	18:59:24	60.0002	70.0003	710690.4600	12.5000	2.5000	2.5000	2.5000	7.5000
2	19:00:04	68.3336	61.6669	719486.8400	15.0000	2.5000	10.0000	0.0000	0.0000
3	19:00:44	70.0003	75.0003	722452.7000	15.0000	0.0000	7.5000	2.5000	10.0000
4	19:01:24	66.6669	58.3335	730612.6600	25.0000	2.5000	5.0000	0.0000	5.0000
5	19:02:03	77.5004	80.0004	724627.4000	27.5000	0.0000	7.5000	5.0000	10.0000
X		68.5003	69.0003	721574.0100	19.0000	1.5000	6.5000	2.0000	6.5000
%RSD		9.201	13.075	1.015	35.551	91.287	43.853	104.583	64.358

Run	Time	103Rh	107Ag	108Mo O	109Ag	111Cd	115In	118Sn	121Sb
1	18:59:24	869275.9700	25.0000	2.5000	26.2500	3.7500	777616.4200	20.0000	17.5000
2	19:00:04	878305.7000	32.5001	2.5000	21.2500	2.5000	776222.5200	17.5000	20.0000
3	19:00:44	879973.6600	31.2501	2.5000	22.5000	1.2500	781276.1300	25.0000	17.5000
4	19:01:24	888240.5600	32.5001	2.5000	16.2500	1.2500	785071.6900	35.0001	32.5001
5	19:02:03	885489.6100	25.0000	2.5000	11.2500	2.5000	791375.6800	22.5000	37.5001
X		880257.1000	29.2501	2.5000	19.5000	2.2500	782312.4900	24.0000	25.0000
%RSD		0.834	13.378	0.000	29.930	46.481	0.783	28.144	37.417

Run	Time	135Ba	137Ba	159Tb	203Tl	205Tl	206Pb	207Pb	208Pb
1	18:59:24	12.5000	27.5000	1203131.5000	70.0003	128.7510	75.0003	47.5001	150.0014
2	19:00:04	10.0000	15.0000	1194881.3000	70.0003	172.5018	55.0002	62.5002	125.0009
3	19:00:44	10.0000	17.5000	1202772.3000	98.7506	217.5028	47.5001	57.5002	125.0009
4	19:01:24	7.5000	12.5000	1213268.0000	108.7507	277.5046	25.0000	45.0001	100.0006
5	19:02:03	2.5000	7.5000	1208349.3000	91.2505	191.2522	25.0000	37.5001	135.0011
X		8.5000	16.0000	1204480.5000	87.7505	197.5025	45.5001	50.0002	127.0010
%RSD		44.605	46.351	0.571	19.775	27.953	46.687	20.000	14.358

Run	Time	209Bi	220Bkg
1	18:59:24	868120.5800	0.0000
2	19:00:04	862145.4200	0.0000
3	19:00:44	868095.6700	0.0000
4	19:01:24	872470.3400	2.5000
5	19:02:03	868780.5800	0.0000
X		867922.5200	0.5000
%RSD		0.427	223.607

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User Pre-dilution: 1.00

Run	Time	6Li	9Be	23Na	24Mg	25Mg	26Mg	27Al	39K
1	19:03:45	252708.6400	┬1883987.6000	┬81564981.0000	┬44979384.0000	┬5474831.7000	┬5852748.1000	┬123089480.0000	┬29157506.0000
2	19:04:25	251571.6700	┬1913763.7000	┬82184612.0000	┬45626657.0000	┬5508133.3000	┬5960928.1000	┬125244500.0000	┬29619406.0000
3	19:05:05	252751.5800	┬1945482.9000	┬83767393.0000	┬46076368.0000	┬5559825.3000	┬5987036.4000	┬125504640.0000	┬29532144.0000
4	19:05:44	257728.9300	┬1962991.6000	┬84697687.0000	┬46273008.0000	┬5610333.9000	┬6008658.1000	┬126051460.0000	┬29603479.0000
5	19:06:24	255647.9500	┬1911992.8000	┬82915752.0000	┬45908048.0000	┬5535943.8000	┬5972264.0000	┬124579330.0000	┬29209289.0000
X		254081.7500	┬1923643.7000	┬83026085.0000	┬45772693.0000	┬5537813.6000	┬5956326.9000	┬124893880.0000	┬29424365.0000
%RSD		0.998	┬1.609	┬1.499	┬1.099	┬0.929	┬1.017	┬0.912	┬0.758

Run	Time	44Ca	45Sc	47Ti	51V	52Cr	54Fe	55Mn	56Fe
1	19:03:45	1419526.5000	437665.2200	72.5003	┬8114262.6000	┬7582791.1000	┬4091775.7000	┬9979876.7000	┬65928125.0000
2	19:04:25	1440402.9000	444947.3100	65.0003	┬8254438.6000	┬7735141.7000	┬4161291.3000	┬10125071.0000	┬66733957.0000
3	19:05:05	1446961.9000	443346.5300	60.0002	┬8246361.2000	┬7790795.9000	┬4161120.8000	┬10181895.0000	┬67282072.0000
4	19:05:44	1440771.8000	449928.0900	65.0003	┬8296249.1000	┬7723075.3000	┬4120937.0000	┬10125710.0000	┬66687527.0000
5	19:06:24	1423254.4000	449761.9800	67.5003	┬8235835.4000	┬7708780.0000	┬4090156.4000	┬9911721.7000	┬65746920.0000
X		1434183.5000	445129.8300	66.0003	┬8229429.4000	┬7708116.8000	┬4125056.2000	┬10064855.0000	┬66475720.0000
%RSD		0.839	1.142	6.881	┬0.830	┬0.994	┬0.853	┬1.130	┬0.949

Run	Time	57Fe	59Co	60Ni	63Cu	65Cu	66Zn	75As	78Se
1	19:03:45	1584065.9000	┬10366332.0000	┬2235473.0000	┬5115800.9000	┬2484097.7000	1446158.8000	1085926.1000	29663.5350
2	19:04:25	1602833.5000	┬10440616.0000	┬2266237.2000	┬5265603.4000	┬2527771.4000	1458024.5000	1104448.1000	29676.9160
3	19:05:05	1603596.5000	┬10530555.0000	┬2276853.9000	┬5272061.5000	┬2555176.6000	1472437.2000	1106707.1000	29559.8340
4	19:05:44	1590099.5000	┬10406477.0000	2295546.6000	┬5248261.9000	┬2543868.2000	1456064.5000	1104563.7000	30054.0970
5	19:06:24	1580382.4000	┬10399287.0000	2310713.3000	┬5245212.7000	┬2531374.4000	1443174.1000	1102366.9000	29941.1920
X		1592195.6000	┬10428653.0000	┬2276964.8000	┬5229388.1000	┬2528457.7000	1455171.8000	1100802.4000	29779.1150
%RSD		0.669	┬0.602	┬1.265	┬1.233	┬1.070	0.793	0.768	0.700

Run	Time	82Se	83Kr	89Y	94Mo	95Mo	96Mo	97Mo	98Mo
1	19:03:45	12102.9490	96.6672	643742.0800	187.5021	172.5018	320.0061	105.0007	300.0054
2	19:04:25	12044.5310	90.0005	645484.4200	190.0022	182.5020	302.5055	90.0005	287.5050
3	19:05:05	12023.6680	77.5004	647394.3900	175.0018	180.0019	367.5081	107.5007	300.0054
4	19:05:44	12078.7470	88.3338	653215.9100	177.5019	152.5014	315.0060	92.5005	232.5032
5	19:06:24	11930.2000	67.5003	652630.0700	220.0029	170.0017	302.5055	110.0007	295.0052
X		12036.0190	84.0004	648493.3700	190.0022	171.5018	321.5062	101.0006	283.0048
%RSD		0.553	13.700	0.655	9.443	6.884	8.350	9.027	10.138

Run	Time	103Rh	107Ag	108Mo O	109Ag	111Cd	115In	118Sn	121Sb
1	19:03:45	757165.7000	673504.3800	88449.4200	647131.3400	1380230.3000	697481.3600	55.0002	┬3757406.1000
2	19:04:25	760961.7100	685125.5400	89422.2200	657189.5800	1377289.3000	695948.3000	105.0007	┬3771327.4000
3	19:05:05	760548.9600	691944.6200	88398.8880	660662.4700	1381055.5000	695484.3600	80.0004	┬3772542.3000
4	19:05:44	761481.0900	694075.0800	88057.8050	668517.0600	1379068.1000	690455.9200	92.5005	┬3737798.2000
5	19:06:24	762949.1900	673049.7600	87850.6360	645728.5400	1359758.5000	699041.8300	110.0007	┬3712773.7000
X		760621.3300	683539.8800	88435.7940	655845.8000	1375480.3000	695682.3600	88.5005	┬3750369.6000
%RSD		0.281	1.454	0.683	1.454	0.647	0.465	24.917	┬0.673

Run	Time	135Ba	137Ba	159Tb	203Tl	205Tl	206Pb	207Pb	208Pb
1	19:03:45	730092.4000	1296082.4000	1074641.6000	┬5409017.5000	┬13124029.0000	┬4345970.4000	┬3704160.4000	┬9375882.4000
2	19:04:25	731822.2000	1289661.2000	1073412.3000	┬5375716.0000	┬13116558.0000	┬4306550.5000	┬3713432.7000	┬9366572.2000
3	19:05:05	735470.8900	1297697.1000	1072457.8000	┬5385002.7000	┬13076993.0000	┬4338988.8000	┬3708843.0000	┬9386161.5000
4	19:05:44	733999.2400	1298411.7000	1073497.2000	┬5365692.0000	┬13083668.0000	┬4273276.7000	┬3684333.6000	┬9292680.3000
5	19:06:24	719878.6100	1269663.5000	1078497.9000	┬5277034.2000	┬12884081.0000	┬4239408.6000	┬3606141.6000	┬9130684.1000
X		730252.6700	1290303.2000	1074501.4000	┬5362492.5000	┬13057066.0000	┬4300839.0000	┬3683382.3000	┬9310396.1000
%RSD		0.842	0.933	0.220	┬0.940	┬0.757	┬1.044	┬1.210	┬1.149

Run	Time	209Bi	220Bkg
1	19:03:45	718068.2200	2.5000
2	19:04:25	716645.7400	7.5000
3	19:05:05	715503.5800	7.5000
4	19:05:44	715545.7300	7.5000
5	19:06:24	712205.7400	7.5000
X		715593.8000	6.5000
%RSD		0.302	34.401

CCB3 06/29/2015 19:07:29

User Pre-dilution: 1.00

Run	Time	6Li	9Be	23Na	24Mg	25Mg	26Mg	27Al	39K
1	19:08:08	278436.0000	477.5137	41714.1440	7858.7038	1005.0606	905.0491	21926.3080	38332.9630
2	19:08:48	281273.0900	368.3415	37263.1270	5832.0400	760.0347	825.0408	17120.0680	36683.0620
3	19:09:28	285424.9100	260.8374	33409.3370	3850.8896	455.0124	495.0147	11863.4380	35086.2070
4	19:10:07	286913.0600	179.1686	31597.2900	2860.4909	350.0074	375.0084	8697.0359	34378.2660
5	19:10:47	291024.5000	161.6682	29105.7400	1985.2364	220.0029	320.0061	6687.6824	33770.7900
X		284614.3100	289.5059	34617.9270	4477.4721	558.0236	584.0239	13258.9060	35650.2570
%RSD		1.725	45.987	14.322	52.953	57.289	45.501	47.096	5.197

Run	Time	44Ca	45Sc	47Ti	51V	52Cr	54Fe	55Mn	56Fe
1	19:08:08	382.5088	469724.3300	37.5001	2205.2918	2185.2865	3058.0610	1767.6875	102838.1500
2	19:08:48	345.0071	477987.3800	15.0000	1612.6560	1925.2224	2865.4926	1300.1014	102711.6000
3	19:09:28	275.0045	476950.4300	17.5000	1140.0780	1567.6474	2777.9629	877.5462	99619.4040
4	19:10:07	195.0023	483891.4200	20.0000	747.5335	1320.1046	2672.9286	672.5271	100067.2200
5	19:10:47	220.0029	488818.0900	20.0000	872.5457	1410.1193	2492.8728	647.5252	98559.4110
X		283.5051	479474.3300	22.0000	1315.6210	1681.6760	2773.4636	1053.0775	100759.1600
%RSD		28.175	1.513	40.497	45.441	21.654	7.613	45.337	1.906

Run	Time	57Fe	59Co	60Ni	63Cu	65Cu	66Zn	75As	78Se
1	19:08:08	970.0565	1632.6599	435.0114	1985.2364	770.0356	447.5120	327.5064	710.8637
2	19:08:48	790.0375	1350.1094	340.0069	1507.6364	537.5173	372.5083	256.6706	730.0320
3	19:09:28	865.0449	770.0356	212.5027	1242.5926	462.5128	317.5061	189.1688	730.8654
4	19:10:07	802.5386	515.0159	145.0013	1007.5609	365.0080	237.5034	132.5011	686.6950
5	19:10:47	800.0384	405.0098	137.5011	982.5579	337.5068	287.5050	126.6676	802.5386
X		845.5432	934.5661	254.0047	1345.1169	494.5161	332.5070	206.5029	732.1989
%RSD		8.946	57.212	51.081	30.923	35.056	24.294	41.452	5.906

Run	Time	82Se	83Kr	89Y	94Mo	95Mo	96Mo	97Mo	98Mo
1	19:08:08	73.3337	64.1669	703521.2700	22.5000	7.5000	7.5000	0.0000	12.5000
2	19:08:48	68.3336	61.6669	720931.5500	12.5000	15.0000	10.0000	2.5000	7.5000
3	19:09:28	81.6671	67.5003	722583.3300	20.0000	15.0000	5.0000	2.5000	5.0000
4	19:10:07	72.5003	75.0003	732756.7100	27.5000	0.0000	2.5000	0.0000	2.5000
5	19:10:47	78.3337	64.1669	731350.9000	35.0001	7.5000	2.5000	5.0000	0.0000
X		74.8337	66.5003	722228.7500	23.5000	9.0000	5.5000	2.0000	5.5000
%RSD		6.972	7.796	1.617	35.761	69.722	59.265	104.583	87.434

Run	Time	103Rh	107Ag	108Mo O	109Ag	111Cd	115In	118Sn	121Sb
1	19:08:08	859437.1900	441.2617	12.5000	420.0106	230.0032	761677.9100	17.5000	2467.8654
2	19:08:48	883756.8400	332.5066	17.5000	350.0074	183.7520	773528.4600	7.5000	1965.2317
3	19:09:28	879034.3600	301.2555	2.5000	265.0042	106.2507	777096.0800	30.0001	1442.6249
4	19:10:07	884521.9900	253.7539	10.0000	265.0042	80.0004	783682.0700	12.5000	1037.5646
5	19:10:47	892068.9300	121.2509	20.0000	123.7509	51.2502	790635.0900	12.5000	995.0594
X		879763.8600	290.0057	12.5000	284.7555	130.2513	777323.9200	16.0000	1581.6692
%RSD		1.396	40.288	54.772	38.969	57.138	1.405	53.674	39.886

Run	Time	135Ba	137Ba	159Tb	203Tl	205Tl	206Pb	207Pb	208Pb
1	19:08:08	160.0015	192.5022	1166766.6000	1680.1694	3823.3769	927.5516	820.0404	1962.7311
2	19:08:48	115.0008	157.5015	1181290.2000	1082.5703	2614.1600	662.5263	580.0202	1425.1218
3	19:09:28	67.5003	95.0005	1178976.9000	796.2880	1895.2155	440.0116	430.0111	990.0588
4	19:10:07	52.5002	90.0005	1195070.8000	630.0238	1532.6409	360.0078	305.0056	707.5300
5	19:10:47	52.5002	60.0002	1202375.7000	522.5164	1143.8285	322.5062	237.5034	587.5207
X		89.5006	119.0010	1184896.1000	942.3136	2201.8444	542.5207	474.5161	1134.5925
%RSD		52.534	45.608	1.183	49.183	47.960	46.528	49.131	49.717

Run	Time	209Bi	220Bkg
1	19:08:08	836906.6700	0.0000
2	19:08:48	845863.0700	0.0000
3	19:09:28	848368.3100	2.5000
4	19:10:07	854740.2200	5.0000
5	19:10:47	859326.6200	0.0000
X		849040.9800	1.5000
%RSD		1.013	149.071

ALS Environmental - SLC

Report Generated By CETAC QuickTrace AACV 02
Analyst: Christopher.Hansen Christopher R Hansen
Worksheet file: C:\Program Files\QuickTrace\Worksheets\CV2-15192.wsz
Date Started: 07/01/2015 12:41:14
Comment:

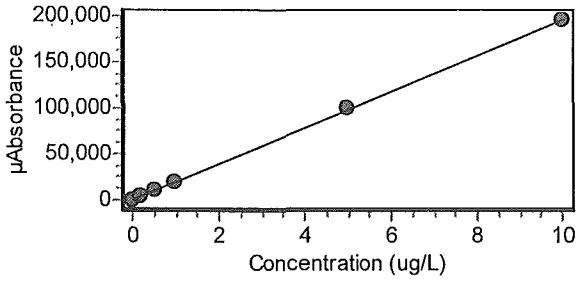
Workorder: 1516423 SDG: MF9K15 case: 45299 HBN: 151598

Results

Sample Name	Type	Date/Time	Conc (ug/L)	µAbs	Flags	Calculated Hg (µg/L)	percent Difference
S0	STD	07/01/15 12:48:40 pm	0.0000	87		-0.0128	NA
S0.2	STD	07/01/15 12:49:48 pm	0.2000	3976		0.1854	7.3%
S0.5	STD	07/01/15 12:50:55 pm	0.5000	9971		0.4909	1.8%
S1.0	STD	07/01/15 12:52:03 pm	1.0000	20171		1.0108	-1.1%
S5.0	STD	07/01/15 12:53:12 pm	5.0000	99467		5.0520	-1.0%
S10	STD	07/01/15 12:54:20 pm	10.0000	196037		9.9738	0.3%

Calibration

Equation: A = 337.906 + 19621.640C
R2: 0.99995
SEE: 618.7792
Flags:



ICV1	ICV	07/01/15 12:55:30 pm	3.9407	77662			
% Recovery 98.52							
ICB1	ICB	07/01/15 12:56:40 pm	-0.0391	-430			
CCV1	CCV	07/01/15 12:57:49 pm	5.1031	100468			
% Recovery 102.06							
CCB1	CCB	07/01/15 12:58:58 pm	-0.0171	3			

: 00298

Sample Name	Type	Date/Time	Conc (ug/L)	µAbs	Flags
PBS1	PBK	07/01/15 01:00:05 pm	-0.0099	143	
MF9K15	UNK	07/01/15 01:01:12 pm	0.2867	5963	
MF9K16	UNK	07/01/15 01:02:20 pm	0.3753	7702	
MF9K17	UNK	07/01/15 01:03:27 pm	0.1600	3477	
MF9K19	UNK	07/01/15 01:04:35 pm	0.0698	1708	
MF9K20	UNK	07/01/15 01:05:42 pm	0.2142	4542	
MF9K21	UNK	07/01/15 01:06:48 pm	0.0926	2154	
MF9K22	UNK	07/01/15 01:07:55 pm	0.1672	3618	
MF9K23	UNK	07/01/15 01:09:03 pm	0.0830	1967	
MF9K25	UNK	07/01/15 01:10:10 pm	0.0913	2129	
MF9K26	UNK	07/01/15 01:11:17 pm	0.0729	1768	
MF9K26D	UNK	07/01/15 01:12:24 pm	0.0712	1734	
MF9K26S	UNK	07/01/15 01:13:31 pm	2.6088	51527	
MF9K27	UNK	07/01/15 01:14:38 pm	0.0937	2176	
MF9K28	UNK	07/01/15 01:15:46 pm	0.6159	12424	
MF9K29	UNK	07/01/15 01:16:53 pm	0.0989	2278	
CCV2	CCV	07/01/15 01:18:02 pm	5.1029	100464	
% Recovery 102.06					

00291

Sample Name	Type	Date/Time	Conc (ug/L)	µAbs	Flags
CCB2	CCB	07/01/15 01:19:11 pm	-0.0215	-84	

Analysis Parameters

Instrument M-7500 Mercury Analyzer

Conditions

Gas flow (mL/min)	Sample Uptake (s)	Rinse (s)	Read delay (s)	Replicates (#)	Replicate time (s)	Pump speed (%)	Wavelength (nm)
225	20.00	40.00	35.00	1	2.00	90	253.65

ASX Pump Rate (%)
100

Instrumental Zero

Zero before first sample: No

Zero periodically: Yes

Before each calibration.

Baseline Correction

#1 Start time (s)	#1 End time (s)	#2 Start time (s)	#2 End time (s)
7.00	12.00		

Standby Mode

Enabled: Yes

Standby Options: gas off, lamp off

Autodilution

Enabled: No

Condition:

Tube # range:

If no autodilution tubes remaining

Calibration

Settings

Algorithm	Through blank	Weighted fit	Cal. Type	Racalibration rate	Reslope rate	Reslope standard
Linear	No	No	Normal	0	0	N/A

Limits

Calibration slope		Reslope		Coeff. of Determination
Lower (%)	Upper (%)	Lower (%)	Upper (%)	
20	150	75	125	0.99500

Error action: Stop analysis

QC

GLP Override: Yes

QC Tests

: 00293

PBK

Concentration (ug/L)
0.2000

Failure flag: Q

Error action for manually inserted QC: Stop analysis

CCB

Concentration (ug/L)
0.2000

Failure flag: Q

Error action for manually inserted QC: Stop analysis

ICB

Concentration (ug/L)
0.2000

Failure flag: Z

Error action for manually inserted QC: Stop analysis

CCV

Concentration (ug/L)	Low Limit %	High Limit %
5.0000	85.0000	115.0000

Failure flag: Q

Error action for manually inserted QC: Stop analysis

ICV

Concentration (ug/L)	Low Limit %	High Limit %
4.0000	85.0000	115.0000

Failure flag: Q

Error action for manually inserted QC: Stop analysis

: 00294

ISM 3050B PHYSICAL DESCRIPTION

Sample ID	Matrix	Method	Prep Date	Amount Sample Used(g)	Final Sample Volume	PH	Color/Clarity/Texture Before Color	Before Texture	After Color	After Clarity	Init.
PBS1	ASTM Type II H_2O	3050B	06/18/2015	NA	100 mL	NA	Colorless	Clear	Colorless	Clear	SW
LCS1	ASTM Type II H_2O			NA			Colorless	Clear	Colorless	Clear	
MF9K15	Soil			1.0493			Brown	Fine	Yellow	Clear	
MF9K16				1.3784			Brown	Fine	Yellow	Clear	
MF9K17				1.2813			Brown	Fine	Yellow	Clear	
MF9K19				1.3318			Brown	Fine	Yellow	Clear	
MF9K20				1.4422			Brown	Fine	Yellow	Clear	
MF9K21				1.0422			Brown	Fine	Yellow	Clear	
MF9K22				1.2630			Brown	Fine	Yellow	Clear	
MF9K23				1.0848			Brown	Fine	Yellow	Clear	
MF9K25				1.0796			Brown	Fine	Yellow	Clear	
MF9K26				1.3524			Brown	Fine	Yellow	Clear	
MF9K26S				1.3581			Brown	Fine	Yellow	Clear	
MF9K26D				1.3598			Brown	Fine	Yellow	Clear	
MF9K27				1.0635			Brown	Fine	Yellow	Clear	
MF9K28				1.1763			Brown	Fine	Yellow	Clear	
MF9K29	↓	↓	↓	1.2888	↓	↓	Brown	Fine	Yellow	Clear	↓

PREPARED BY:
Shaina Wiest
Shane Stewart

START DATE/TIME:
06/18/2015 06:30
END DATE/TIME:
06/19/2015 10:20
WORKORDER(S):
1516423

SDG:
MF9K15
CASE:
45299
METHOD/MATRIX:
3050B/Soil
BATCH:
5378
HBN #:
150704
MOD:
NA

QC ID	QC TYPE	MATRIX SOURCE	SPIKE SOURCE	PIPETTE ID	VOLUME SPIKED	INITIALS	Method Reagents
PBS1	PBS	ASTM Type II H_2O	NA	NA	NA	SW	1:1 HNO_3 Baker LOT #: 0000104117
LCS1	LCS	ASTM Type II H_2O	27708	WR-22	2000 µl	↓	CONC. HNO_3 Baker LOT #: 0000104117
MF9K26S	MS	MF9K26	24679 24680	WR-22	200 µl		30% H_2O_2 Macron LOT #: 0000097855
MF9K26D	MD	MF9K26	NA	NA	NA		CONC. HCl EMD LOT #: 54310

BALANCE ID:
102683

Samples and QCs prepared by Shaina Wiest, supervised by Shane Stewart. Samples weighed and transferred into 100 mL flat-bottom tubes. QCs prepared as indicated above. 10 mL 1:1 HNO_3 added to all. Samples covered and placed on hotblock at ~95°C for 10 minutes, removed from heat, and allowed to cool. 5 mL concentrated HNO_3 added to all. Samples returned to hotblock for 30 minutes, removed from heat, and allowed to cool. Samples were returned to heat and allowed to reduce to 5 mL. Temperature was checked with thermometer 12207430, which read 96.2 °C. Samples removed from heat. 2 mL ASTM Type II H_2O and 3 mL 30% H_2O_2 added, returned to hotblock, and heated until bubbling reaction subsided. Samples removed from heat. An additional 1 mL of H_2O_2 was added to all samples and heated until effervesence subsided. Samples removed from heat and allowed to cool. Samples returned to heat and allowed reduce to 5 mL. Samples removed from heat and allowed to cool. 10 mL conc. HCl added. Samples returned to hotblock for 15 minutes, removed from heat, and allowed to cool. Samples diluted to 100 mL final volume with ASTM Type II H_2O. Samples inverted several times to mix. Samples transferred to 50 mL tubes for analysis.

ISM01.3 3050B PHYSICAL DESCRIPTION

Sample ID	Matrix	Method	Prep Date	Amount Sample Used (g)	Final Sample Volume	PH	Color/Clarity/Texture Before Color	Before Texture	After Color	After Clarity	Init.
PBS1	ASTM Type II H_2O	3050B	06/26/15	1.0000	100 mL	NA	Colorless		Colorless	Clear	KFB
LCS1	ASTM Type II H_2O			1.0000	100 mL		Colorless		Colorless	Clear	
MF9K15	ASTM Type II H_2O			1.3366	100 mL		Brown	Medium	Brown	Clear	
MF9K16	Soil			1.0819	100 mL		Brown	Medium	Brown	Clear	
MF9K17				1.1521	100 mL		Brown	Medium	Brown	Clear	
MF9K19				1.0790	100 mL		Brown	Medium	Brown	Clear	
MF9K20				1.3132	100 mL		Brown	Medium	Brown	Clear	
MF9K21				1.1769	100 mL		Brown	Medium	Brown	Clear	
MF9K22				1.4227	100 mL		Brown	Medium	Brown	Clear	
MF9K23				1.3482	100 mL		Brown	Medium	Brown	Clear	
MF9K25				1.3815	100 mL		Brown	Medium	Brown	Clear	
MF9K26				1.4553	100 mL		Brown	Medium	Brown	Clear	
MF9K26S				1.4563	100 mL		Brown	Medium	Brown	Clear	
MF9K26D				1.4579	100 mL		Brown	Medium	Brown	Clear	
MF9K27				1.1749	100 mL		Brown	Medium	Brown	Clear	
MF9K28				1.2266	100 mL		Brown	Medium	Brown	Clear	
MF9K29				1.4148	100 mL		Brown	Medium	Brown	Clear	

PREPARED BY:
Kristie Bitner

START DATE/TIME:
06/26/15 10:30
END DATE/TIME:
06/29/15 13:30
WORKORDER(S):
1516423

ISM01.3
SDG: MF9K15
CASE: 45299

METHOD/MATRIX:
3050B/Soil
BATCH:
EMS / 4155
HBN #:151207

Balance ID:
102683

Mod:
NA

QC ID	QC Type	Matrix Source	Spike Source	Pipette ID	Volume Spiked	Initials	Method Reagents		Pipette ID
PBS1	PBS	ASTM Type II H_2O	NA	NA	NA	KFB	1:1 HNO_3 LOT #:	MS-15-113 (4184/98)	ICP-10G
LCS1	LCS	ASTM Type II H_2O	23704	2163121	1 mL		CONC. HNO_3 LOT #:	BDH: 1213120	ICP-10G
MF9K07S	MS	MF9K07	25853	2163121	1 mL		30% H_2O_2 LOT #:	Macron: 0000086427	NA
MF9K07D	MD	MF9K07	NA	NA	NA				

06/26/2015 10:30. Rinsed digestion tubes (SCP Science lot # J200373-263), watch glasses and caps with ASTM Type II water. Samples weighed and transferred into digestion tubes by Jennifer Wilkinson. PBS and LCS are 1 g. aliquots of ASTM Type II water. Spiked as indicated above, added 10 mL of 1:1 HNO_3 to each sample and covered with caps. Time in 14:05. Heated samples to 95°C (±3°), then refluxed for 15 minutes, removed from heat and cooled. Added 5 mL concentrated nitric acid and refluxed for 30 minutes, checking for brown fumes. Exchanged caps for ribbed watch glasses and refluxed for 2 hours. Temperature checked using thermometer 111330864 at 14:17, 93.4 °C. Removed from heat and cooled. Added 2 mL of ASTM Type II water and 3 mL of 30% H2O2, heated with caps on, checking for effervescence. Replaced caps with ribbed watch glasses and continued to heat for 2 hours. Allowed samples to cool and transferred samples to well rinsed 100 mL class A volumetric flasks. Brought samples to volume with ASTM Type II water, stoppered and shook samples to mix. Transferred about 50 mL of samples back to digestion tubes and capped.

ISM01.3-7471B Hg-Soil: Electronic Physical Description Log

File Location: ALSltws013\AA_current\Mercury\Hg-EPA-CLP-DATA			File Name: PD-HGS-MF9K15-151193
HBN:151193	Case:45299	SDG:MF9K15	Mercury in EPA-CLP soil
Workorder ID(s): 1516423			

	EPA Sample ID	Matrix	Method **	Prep Date and Time	Amount of Sample Used (g)	Final Volume of Samples (mL)	pH	Color Before	Texture Before	Color After NH_2OH • HCl	Clarity After NH_2OH • HCl	Init.
Calibration Standards	S0	ASTM Type II H_2O	ISM01.3 7471B	07/01/2015 05:00	NA	100mL + 36mL reagents	NA	Colorless	NA	Colorless	Clear	SS
	S0.2											
	S0.5											
	S1.0											
	S5.0/CCVs											
	S10											
	ICV							Yellow				
	ICB/CCBs							Colorless				
	PBS1							Colorless				
	MF9K15	Soil			0.5795			Brown	Fine	Colorless	Clear	
	MF9K16				0.5493			Brown	Fine	Colorless	Clear	
	MF9K17				0.5307			Brown	Fine	Colorless	Clear	
	MF9K19				0.5608			Brown	Fine	Colorless	Clear	
	MF9K20				0.5095			Brown	Fine	Colorless	Clear	
	MF9K21				0.5430			Brown	Fine	Colorless	Clear	
	MF9K22				0.5338			Brown	Fine	Colorless	Clear	
	MF9K23				0.5679			Brown	Fine	Colorless	Clear	
	MF9K25				0.5084			Brown	Fine	Colorless	Clear	
	MF9K26				0.5006			Brown	Fine	Colorless	Clear	
	MF9K26S				0.5027			Brown	Fine	Colorless	Clear	
	MF9K26D				0.5027			Brown	Fine	Colorless	Clear	
	MF9K27				0.5369			Brown	Fine	Colorless	Clear	
	MF9K28				0.5076			Brown	Fine	Colorless	Clear	
	MF9K29				0.5120			Brown	Fine	Colorless	Clear	

ISM01.3-7471B Mercury Standards Preparation Description

Sample ID.	Solution used	Amount	Description of solution	Std. final volume	Std. final conc.
S0, ICB, CCBs, PBS1	NA	NA	NA	100mL sample + 36mL reagents	0 µg/L Hg
S0.2	Hg STD B (28508)	200 µL	STD B = 0.1 mg/L Hg		0.2 µg/L Hg
S0.5		500 µL			0.5 µg/L Hg
S1.0	Hg STD A (28538)	100 µL	STD A = 1.0 mg/L Hg		1.0 µg/L Hg
S5.0, CCVs		500 µL			5.0 µg/L Hg
S10		1000 µL			10 µg/L Hg
ICV	ICV5-0508 Hg (21478)	1000 µL	Hg CLP-ICV = 0.4 mg/L Hg		4.0 µg/L Hg
MS	Hg STD A (28538)	250 µL	STD A = 1.0 mg/L Hg		2.5 µg/L Hg
MD	NA	NA	NA		NA

Comments: NONE

% Moistures & Solids

Analyst: IJO
Queue: EGRV
Batch: 5216
Instrument: GRAV03

Oven Start Time 06/16/2015 13:00 **Start Oven Temp:** 105° **Start Desiccator:** 06/17/2015 08:00
Oven Finish Time 06/17/2015 08:00 **End Oven Temp:** 105° **End Desiccator:** 06/17/2015 09:00

Workorder	Dish#	Lab Sample ID	Dish (g)	Dish + Soil (g)	Soil Weight (g)	Dish + DS (g)	Dry Soil (g)	% Solids	% Moistures
1516423	1	1516423001	1.2889	9.6109	8.3220	9.2536	7.9647	95.7066%	4.2934%
1516423	2	1516423002	1.2878	9.8795	8.5917	9.6725	8.3847	97.5907%	2.4093%
1516423	3	1516423003	1.2882	9.9381	8.6499	9.5709	8.2827	95.7549%	4.2451%
1516423	4	1516423004	1.2953	9.6543	8.3590	9.3216	8.0263	96.0199%	3.9801%
1516423	5	1516423005	1.2864	9.9380	8.6516	9.8589	8.5725	99.0857%	0.9143%
1516423	6	1516423006	1.2853	9.8589	8.5736	9.5381	8.2528	96.2583%	3.7417%
1516423	7	1516423007	1.2849	9.6141	8.3292	9.4379	8.1530	97.8846%	2.1154%
1516423	8	1516423008	1.2872	9.5289	8.2417	9.4102	8.1230	98.5598%	1.4402%
1516423	9	1516423009	1.2900	9.8924	8.6024	9.7622	8.4722	98.4865%	1.5135%
1516423	10	1516423010	1.2880	9.5146	8.2266	9.3148	8.0268	97.5713%	2.4287%
~~1516423~~	~~11~~	~~451876~~	~~1.2848~~	~~9.6636~~	~~8.3788~~	~~9.4703~~	~~8.1855~~	~~97.6930%~~	~~2.3070%~~
1516423	12	1516423012	1.2880	9.8319	8.5439	9.5919	8.3039	97.1910%	2.8090%
1516423	13	1516423013	1.2824	9.9183	8.6359	9.8027	8.5203	98.6614%	1.3386%
1516423	14	1516423014	1.2904	9.7878	8.4974	9.6667	8.3763	98.5749%	1.4251%
1516423	15	1516423015	1.2944	9.9679	8.6735	9.9051	8.6107	99.2760%	0.7240%

6/17/15
IJO

From: (832) 347-4180
Derrick Cobb
Weston Solutions, Inc
5599 San Felipe St
Ste. 700
HOUSTON, TX 77056

Origin ID: HOUA

FedEx Express

J151215022303uv

Ship Date: 12JUN15
ActWgt: 70.0 LB
CAD: 2557564/INET3610

Dims: 22 X 16 X 14 IN

Delivery Address Bar Code

Ref # 20406.016.005.0919.01
Invoice #
PO #
Dept #

SHIP TO: (801) 266-7700 BILL SENDER

Meredith Edwards
ALS Laboratory Group - Salt Lake
960 West Levoy Street

Salt Lake City, UT 84123

Air 6/13/2015 9:45

SATURDAY 12:00P
PRIORITY OVERNIGHT

TRK# 0201 7738 2071 8514

X0 BTFA

84123
UT-US
SLC

537J1/8A0E/EE4B

After printing this label:
1. Use the 'Print' button on this page to print your label to your laser or inkjet printer.
2. Fold the printed page along the horizontal line.
3. Place label in shipping pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned.

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SAMPLE TAG INFORMATION SHEET

There are no Sample Tags included with this SDG

Notations concerning the location of the Sample Tags are included in Forms DC-1, DC-2 and in the SDG Administrative Narrative (if it is required).

Sample Delivery Group (SDG)
Cover Sheet

SDG Number: MF9K15

[X] ICPAES [X] ICPMS [X] HG [ ] CN

Laboratory Name: ALS Laboratory Group (SLC)

Laboratory Code: DATAC

Contract No.: EPW09036

Case No.: 45299

Analysis Price: N/A

SDG Turnaround: 21

Modified Analysis Requested: NO

Program: ISM01.3

Modification Reference No.: N/A

EPA Sample Numbers in SDG (Listed in Numerical Order)

1) MF9K15	7) MF9K22	13) MF9K29	19)
2) MF9K16	8) MF9K23	14)	20)
3) MF9K17	9) MF9K25	15)	21)
4) MF9K19	10) MF9K26	16)	22)
5) MF9K20	11) MF9K27	17)	23)
6) MF9K21	12) MF9K28	18)	24)

MF9K15

First Sample in SDG

MF9K29

Last Sample in SDG

06/13/15

First Sample Receipt Date

06/13/15

Last Sample Receipt Date

Note: *There are a maximum of 20 field samples (excluding PE samples) in an SDG. Attach the TR/COC records to this form in alphanumeric order (the order listed above on this form).*

Signature: /S/ Roxanne Olson

Date: 6/15/2015 7:56:05 AM

(/S/ is an electronic signature that complies with 21 CFR Part 11)

EPA Sample Receipt History

Client: U. S. EPA Region 6 Contract: EPW09036 Case: **45299** SDG: **MF9K15** Mod: None

Due to Client: **Sat, Jul 04, 2015** TAT: 21 Date Reported: Not Reported Status: **CLOSED**

Workorder Information Program: ISM01.3 Region: 6 EDD Level: 2b

Work Order	Received	PR	Fractions
1516423	06/13/15 9:45 AM	No	ICP-AES, ICP-MS, Mercury

Sample Information

Lab ID	Client ID	Type	Matrix	ICPAES	ICPMS	HG	CN
1516423001	MF9K15	SAMPLE	Soil[S]	X	X	X	☐
1516423002	MF9K16	SAMPLE	Soil[S]	X	X	X	☐
1516423003	MF9K17	SAMPLE	Soil[S]	X	X	X	☐
1516423004	MF9K19	SAMPLE	Soil[S]	X	X	X	☐
1516423005	MF9K20	SAMPLE	Soil[S]	X	X	X	☐
1516423006	MF9K21	SAMPLE	Soil[S]	X	X	X	☐
1516423007	MF9K22	SAMPLE	Soil[S]	X	X	X	☐
1516423008	MF9K23	SAMPLE	Soil[S]	X	X	X	☐
1516423009	MF9K25	SAMPLE	Soil[S]	X	X	X	☐
1516423010	MF9K26	SAMPLE	Soil[S]	X	X	X	☐
1516423012	MF9K26D	MD	Soil[S]	X	X	X	☐
1516423011	MF9K26S	MS	Soil	X	X	X	☐
1516423013	MF9K27	SAMPLE	Soil[S]	X	X	X	☐
1516423014	MF9K28	SAMPLE	Soil[S]	X	X	X	☐
1516423015	MF9K29	SAMPLE	Soil[S]	X	X	X	☐

Field Samples: **13** MS: **1** MSD: 0 MD: **1** PE: 0

Report Parameters = SDG:MF9K15 Case:<NULL> Region:<NULL>
Mod:<NULL> Workorder:<NULL> BeginDate:<NULL> EndDate:<NULL>
OpenSummary:No SortBy:Case

ALS Environmental

CHAIN-OF-CUSTODY

Project / Job / Task: EPW09036	Split:	Workorder ID: 1516423	Level: EPACLP_PDF
Client: U. S. EPA Region 6		Account: 8201	Type: 8ozGWM

Comments:

Preservatives: COOL

Requested Analysis: ISM01.3 ICP-AES, Soil; ISM01.3 Mercury, Soil; ISM01.3 ICP-MS, Soil

Item	Collect Date/Time	Sample ID	Lab ID	QC	Matrix	Containers ID(s)	Containers Count	ISM01.3 ICP-AES, Soil	ISM01.3 Mercury, Soil	ISM01.3 ICP-MS, Soil
1	06/10/2015 15:18	MF9K15	1516423001		Soil/Solid/Sediment	A	1	A	A	A
2	06/10/2015 16:00	MF9K16	1516423002		Soil/Solid/Sediment	A	1	A	A	A
3	06/11/2015 09:00	MF9K17	1516423003		Soil/Solid/Sediment	A	1	A	A	A
4	06/11/2015 09:53	MF9K19	1516423004		Soil/Solid/Sediment	A	1	A	A	A
5	06/11/2015 10:40	MF9K20	1516423005		Soil/Solid/Sediment	A	1	A	A	A
6	06/11/2015 11:45	MF9K21	1516423006		Soil/Solid/Sediment	A	1	A	A	A
7	06/11/2015 13:49	MF9K22	1516423007		Soil/Solid/Sediment	A	1	A	A	A
8	06/11/2015 14:12	MF9K23	1516423008		Soil/Solid/Sediment	A	1	A	A	A
9	06/11/2015 15:47	MF9K25	1516423009		Soil/Solid/Sediment	A	1	A	A	A
10	06/11/2015 16:20	MF9K26	1516423010		Soil/Solid/Sediment	A	1	A	A	A

ORIGINAL FIELD SAMPLE CHAIN-OF-CUSTODY

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Reason for Transfer / Storage Location
Edwards, Meredith D.	06/13/2015 09:45	ALS Sample Receiving	Sample Login
Meredith Edwards	06/13/2015 1425	IID	Storage
R-33-1 IID ISO	06/16/15 11:00	Steve Cavalle	solid
Steve Cavalle	06/16/15 16:00	R-33-1 IID ISO	storage
R33-1 IID ss	06/18/2015 0600	metals prep ss	metals

SAMPLE PREPARATION / ANALYSIS CHAIN-OF-CUSTODY

Sample Prep / Analysis for: ICP

Lab Notebook No.: Network

Prepared / Analyzed by: SAW

Date / Time: 06/19/2015 0600

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Reason for Transfer / Storage Location
metals prep	06/19/2015 1020	ICP lab SAW	analysis

ALS Environmental

CHAIN-OF-CUSTODY

Project / Job / Task: EPW09036	Split:	Workorder ID: 1516423	Level: EPACLP_PDF	Requested Analysis
Client: U. S. EPA Region 6		Account: 8201	Type: 8ozGWM	
Comments:			Preservatives: COOL	

Item	Collect Date/Time	Sample ID	Lab ID	QC	Matrix	Containers ID(s)	Containers Count	ISM01.3 ICP-AES, Soil	ISM01.3 Mercury, Soil	ISM01.3 ICP-MS, Soil
11	06/11/2015 16:20	MF9K26S	1516423011	MS	Soil/Solid/Sediment	A	1	A	A	A
12	06/11/2015 16:20	MF9K26D	1516423012	MD	Soil/Solid/Sediment	A	1	A	A	A
13	06/12/2015 09:07	MF9K27	1516423013		Soil/Solid/Sediment	A	1	A	A	A
14	06/12/2015 10:42	MF9K28	1516423014		Soil/Solid/Sediment	A	1	A	A	A
15	06/11/2015 15:06	MF9K29	1516423015		Soil/Solid/Sediment	A	1	A	A	A
16										
17										
18										
19										
20										

ORIGINAL FIELD SAMPLE CHAIN-OF-CUSTODY

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Reason for Transfer / Storage Location
Edwards, Meredith D.	06/13/2015 09:45	ALS Sample Receiving	Sample Login
Meredith Edwards	6/13/2015 1025	IID	Storage
R-33-1 IID JJO	06/16/15 11:00	Ilue g Ovalle	solid
Ilue g Ovalle	06/16/15 16:00	R-33-P IID JJO	Storage
R33-1 IID SS	06/18/2015	metals prep SS	analysis

SAMPLE PREPARATION / ANALYSIS CHAIN-OF-CUSTODY

Sample Prep / Analysis for: ICP

Prepared / Analyzed by: SW

Lab Notebook No.: Network

Date / Time: 06/18/2015

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Reason for Transfer / Storage Location
metals prep	06/19/2015 1020	ICP lab SW	analysis

ALS Environmental

CHAIN-OF-CUSTODY

Project / Job / Task: EPW09036	Split:	Workorder ID: 1516423	Level: EPACLP_PDF	Requested Analysis
Client: U. S. EPA Region 6		Account: 8201	Type: 8ozGWM	

Comments:

Preservatives: COOL

Item	Collect Date/Time	Sample ID	Lab ID	QC	Matrix	Containers ID(s)	Containers Count	ISM01.3 ICP-AES, Soil	ISM01.3 Mercury, Soil	ISM01.3 ICP-MS, Soil
1	06/10/2015 15:18	MF9K15	1516423001		Soil/Solid/Sediment	A	1	A	A	A
2	06/10/2015 16:00	MF9K16	1516423002		Soil/Solid/Sediment	A	1	A	A	A
3	06/11/2015 09:00	MF9K17	1516423003		Soil/Solid/Sediment	A	1	A	A	A
4	06/11/2015 09:53	MF9K19	1516423004		Soil/Solid/Sediment	A	1	A	A	A
5	06/11/2015 10:40	MF9K20	1516423005		Soil/Solid/Sediment	A	1	A	A	A
6	06/11/2015 11:45	MF9K21	1516423006		Soil/Solid/Sediment	A	1	A	A	A
7	06/11/2015 13:49	MF9K22	1516423007		Soil/Solid/Sediment	A	1	A	A	A
8	06/11/2015 14:12	MF9K23	1516423008		Soil/Solid/Sediment	A	1	A	A	A
9	06/11/2015 15:47	MF9K25	1516423009		Soil/Solid/Sediment	A	1	A	A	A
10	06/11/2015 16:20	MF9K26	1516423010		Soil/Solid/Sediment	A	1	A	A	A

ORIGINAL FIELD SAMPLE CHAIN-OF-CUSTODY

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Reason for Transfer / Storage Location
Edwards, Meredith D.	06/13/2015 09:45	ALS Sample Receiving	Sample Login
Meredith Edwards	06/13/2015 14:25	IID	Storage
R-33-1 IID ISO	06/16/15 11:00	Steve Quale	solid
Steve Quale	06/16/15 16:00	R-33-1 IID ISO	storage
R33-1 IID SS	06/18/2015 0600	metals prep SS	metals

SAMPLE PREPARATION / ANALYSIS CHAIN-OF-CUSTODY

Sample Prep / Analysis for: ICP-MS

Lab Notebook No.: 151207

Prepared / Analyzed by: Kristie Bitner

Date / Time: 06/29/2015 10:30

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Reason for Transfer / Storage Location
Kristie Bitner	06/29/2015 14:10	ICP-MS Lab KB	Analysis

Sat, 06/13/15 4:20 PM

ALSCOCV2.6

ALS Environmental

CHAIN-OF-CUSTODY

Project / Job / Task: EPW09036 | Split: | Workorder ID: 1516423 | Level: EPACLP_PDF

Client: U. S. EPA Region 6 | Account: 8201

Type: 8ozGWM

Preservatives: COOL

Comments:

Requested Analysis

Item	Collect Date/Time	Sample ID	Lab ID	QC	Matrix	Containers ID(s)	Containers Count	ISM01.3 ICP-AES, Soil	ISM01.3 Mercury, Soil	ISM01.3 ICP-MS, Soil
11	06/11/2015 16:20	MF9K26S	1516423011	MS	Soil/Solid/Sediment	A	1	A	A	A
12	06/11/2015 16:20	MF9K26D	1516423012	MD	Soil/Solid/Sediment	A	1	A	A	A
13	06/12/2015 09:07	MF9K27	1516423013		Soil/Solid/Sediment	A	1	A	A	A
14	06/12/2015 10:42	MF9K28	1516423014		Soil/Solid/Sediment	A	1	A	A	A
15	06/11/2015 15:06	MF9K29	1516423015		Soil/Solid/Sediment	A	1	A	A	A
16										
17										
18										
19										
20										

ORIGINAL FIELD SAMPLE CHAIN-OF-CUSTODY

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Reason for Transfer / Storage Location
Edwards, Meredith D.	06/13/2015 09:45	ALS Sample Receiving	Sample Login
Meredith Edwards	6/13/2015 1025	IID	Storage
R-33-1 IID JJO	06/16/15 11:00	Jesse Orvalle	Solid
Jesse Orvalle	06/16/15 16:00	R-33-P1IDJJO	Storage
R33-1 IID SS 06/18/2015		[illegible]	[illegible]

SAMPLE PREPARATION / ANALYSIS CHAIN-OF-CUSTODY

Sample Prep / Analysis for: ICP-MS

Lab Notebook No.: 151207

Prepared / Analyzed by: Kristie Bitner

Date / Time: 06/29/2015 10:30

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Reason for Transfer / Storage Location
Kristie Bitner	06/29/2015 14:10	ICP-MS Lab KB	Analysis

ALS Environmental

CHAIN-OF-CUSTODY

Project / Job / Task: EPW09036	Split:	Workorder ID: 1516423	Level: EPACLP_PDF
Client: U. S. EPA Region 6		Account: 8201	Type: 8ozGWM

Comments:

Preservatives: COOL

Item	Collect Date/Time	Sample ID	Lab ID	QC	Matrix	Containers ID(s)	Containers Count	ISM01.3 ICP-AES, Soil	ISM01.3 Mercury, Soil	ISM01.3 ICP-MS, Soil
1	06/10/2015 15:18	MF9K15	1516423001		Soil/Solid/Sediment	A	1	A	A	A
2	06/10/2015 16:00	MF9K16	1516423002		Soil/Solid/Sediment	A	1	A	A	A
3	06/11/2015 09:00	MF9K17	1516423003		Soil/Solid/Sediment	A	1	A	A	A
4	06/11/2015 09:53	MF9K19	1516423004		Soil/Solid/Sediment	A	1	A	A	A
5	06/11/2015 10:40	MF9K20	1516423005		Soil/Solid/Sediment	A	1	A	A	A
6	06/11/2015 11:45	MF9K21	1516423006		Soil/Solid/Sediment	A	1	A	A	A
7	06/11/2015 13:49	MF9K22	1516423007		Soil/Solid/Sediment	A	1	A	A	A
8	06/11/2015 14:12	MF9K23	1516423008		Soil/Solid/Sediment	A	1	A	A	A
9	06/11/2015 15:47	MF9K25	1516423009		Soil/Solid/Sediment	A	1	A	A	A
10	06/11/2015 16:20	MF9K26	1516423010		Soil/Solid/Sediment	A	1	A	A	A

ORIGINAL FIELD SAMPLE CHAIN-OF-CUSTODY

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Reason for Transfer / Storage Location
Edwards, Meredith D.	06/13/2015 09:45	ALS Sample Receiving	Sample Login
Meredith Edwards	06/13/2015 1425	IID	Storage
R-33-1 IID ISO	06/16/15 11:00	Shae Cavalle	solid
Shae Cavalle	06/16/15 16:00	R-33-1 IID ISO	storage
R33-1 IID SS	06/18/2015 0600	metals prep SS	metals

SAMPLE PREPARATION / ANALYSIS CHAIN-OF-CUSTODY

Sample Prep / Analysis for: ISM01.3 Hg soil

Lab Notebook No.: HBN: 151598

Prepared / Analyzed by: SS/CH

Date / Time: 07/01/2015 05:00

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Reason for Transfer / Storage Location
metals prep CH	07/01/2015 05:58	AA/Rad lab CH	Hg analysis
AA/Rad lab CH	07/01/2015 15:41	Nonhazardous waste CH	Disposal

CH 07/01/2015

Disposed

Sat, 06/13/15 4:20 PM

ALSCOCV2.6

ALS Environmental

CHAIN-OF-CUSTODY

Project / Job / Task: EPW09036	Split:	Workorder ID: 1516423	Level: EPACLP_PDF
Client: U. S. EPA Region 6		Account: 8201	Type: 8ozGWM
Comments:			Preservatives: COOL

Item	Collect Date/Time	Sample ID	Lab ID	QC	Matrix	Containers ID(s)	Containers Count	ISM01.3 ICP-AES, Soil	ISM01.3 Mercury, Soil	ISM01.3 ICP-MS, Soil
11	06/11/2015 16:20	MF9K26S	1516423011	MS	Soil/Solid/Sediment	A	1	A	A	A
12	06/11/2015 16:20	MF9K26D	1516423012	MD	Soil/Solid/Sediment	A	1	A	A	A
13	06/12/2015 09:07	MF9K27	1516423013		Soil/Solid/Sediment	A	1	A	A	A
14	06/12/2015 10:42	MF9K28	1516423014		Soil/Solid/Sediment	A	1	A	A	A
15	06/11/2015 15:06	MF9K29	1516423015		Soil/Solid/Sediment	A	1	A	A	A
16										
17										
18										
19										
20										

ORIGINAL FIELD SAMPLE CHAIN-OF-CUSTODY

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Reason for Transfer / Storage Location
Edwards, Meredith D.	06/13/2015 09:45	ALS Sample Receiving	Sample Login
Meredith Edwards	06/13/2015 11:025	IID	Storage
R-33-1 IID DJO	06/16/15 11:00	Jhe g Orvalle	Solid
Jhe g Orvalle	06/16/15 16:00	R-33-1 IID DJO	Storage
R33-1 IID SS	06/18/2015	metals prep SS	metals

SAMPLE PREPARATION / ANALYSIS CHAIN-OF-CUSTODY

Sample Prep / Analysis for: ISM01.3 Hg Soil

Prepared / Analyzed by: SS / CH

Lab Notebook No.: HBN: 151598

Date / Time: 07/01/2015 05:00

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Reason for Transfer / Storage Location
metals prep CH 07/01/15	07/01/2015 09:58	AA/Read lab CH	Hg analysis
AA/Read lab CH	07/01/2015 15:41	Nonhazardous waste CH	Disposal
		CH 07/01/2015 Disposed	

Batch Worklist

Batch: EIPX/ 5378 **Created:** 6/17/2015 11:51 **Instrument:** NONE **HBN:** 150704

Rule: ISM ICP-AES 3050B Prep **Analyst:** S. Stewart **Status:** NA

Workorder: 1516423 **SDG:** MF9K15 **Case:** 45299

Pos	Lab ID	Sample ID	Prep Initial	Prep Final	Dust Weight	Type	Mx	Container	Procedure	Mgr	Expire Date	Due Date	Run Date
1	452106	PBS1	1 grams	100 mL		PBS	4		ISMAESS.4P	6180	12/14/2015	6/19/2015	6/18/2015
2	452107	LCS1	1 grams	100 mL		LCS	4		ISMAESS.4P	6180	12/14/2015	6/19/2015	6/18/2015
3	1516423001	MF9K15	1.0493 grams	100 mL		SAMPLE	4	1516423001-A	I13AESS.4P	5936	12/10/2015	6/19/2015	6/18/2015
4	1516423002	MF9K16	1.3784 grams	100 mL		SAMPLE	4	1516423002-A	I13AESS.4P	5936	12/10/2015	6/19/2015	6/18/2015
5	1516423003	MF9K17	1.2813 grams	100 mL		SAMPLE	4	1516423003-A	I13AESS.4P	5936	12/10/2015	6/19/2015	6/18/2015
6	1516423004	MF9K19	1.3318 grams	100 mL		SAMPLE	4	1516423004-A	I13AESS.4P	5936	12/10/2015	6/19/2015	6/18/2015
7	1516423005	MF9K20	1.4422 grams	100 mL		SAMPLE	4	1516423005-A	I13AESS.4P	5936	12/10/2015	6/19/2015	6/18/2015
8	1516423006	MF9K21	1.0422 grams	100 mL		SAMPLE	4	1516423006-A	I13AESS.4P	5936	12/10/2015	6/19/2015	6/18/2015
9	1516423007	MF9K22	1.263 grams	100 mL		SAMPLE	4	1516423007-A	I13AESS.4P	5936	12/10/2015	6/19/2015	6/18/2015
10	1516423008	MF9K23	1.0848 grams	100 mL		SAMPLE	4	1516423008-A	I13AESS.4P	5936	12/10/2015	6/19/2015	6/18/2015
11	1516423009	MF9K25	1.0796 grams	100 mL		SAMPLE	4	1516423009-A	I13AESS.4P	5936	12/10/2015	6/19/2015	6/18/2015
12	1516423010	MF9K26	1.3524 grams	100 mL		SAMPLE	4	1516423010-A	I13AESS.4P	5936	12/10/2015	6/19/2015	6/18/2015
13	1516423011	MF9K26S	1.3581 grams	100 mL		MS	4	1516423011-A	I13AESS.4P	5936	12/10/2015	6/19/2015	6/18/2015
14	1516423012	MF9K26D	1.3598 grams	100 mL		MD	4	1516423012-A	I13AESS.4P	5936	12/10/2015	6/19/2015	6/18/2015
15	1516423013	MF9K27	1.0635 grams	100 mL		SAMPLE	4	1516423013-A	I13AESS.4P	5936	12/10/2015	6/19/2015	6/18/2015
16	1516423014	MF9K28	1.1763 grams	100 mL		SAMPLE	4	1516423014-A	I13AESS.4P	5936	12/10/2015	6/19/2015	6/18/2015
17	1516423015	MF9K29	1.2888 grams	100 mL		SAMPLE	4	1516423015-A	I13AESS.4P	5936	12/10/2015	6/19/2015	6/18/2015

STANDARD REPORT

Stock Standard - ICP-CLP-CRQL

ICP-CLP-CRQL	Description - ISM CRQL Solution

Standard: 27708 **Created By:** S. Stewart **Amount:** 125 mL
MFG: Inorganic Ventures **Create Date:** 4/10/2015 **Expires:** 4/10/2016
MFG Lot: J2-MEB563030 **Lab Lot:** ICP-CLP **Usable:** Yes
Part ID: CLP-AES-CRQL-2

Pos.	Analyte	Name	Concentration
1	7429-90-5	Aluminum	20 ug/mL
2	7440-36-0	Antimony	6 ug/mL
3	7440-38-2	Arsenic	1 ug/mL
4	7440-39-3	Barium	20 ug/mL
5	7440-41-7	Beryllium	0.5 ug/mL
6	7440-43-9	Cadmium	0.5 ug/mL
7	7440-70-2	Calcium	500 ug/mL
8	7440-47-3	Chromium	1 ug/mL
9	7440-48-4	Cobalt	5 ug/mL
10	7440-50-8	Copper	2.5 ug/mL
11	7439-89-6	Iron	10 ug/mL
12	7439-92-1	Lead	1 ug/mL
13	7439-95-4	Magnesium	500 ug/mL
14	7439-96-5	Manganese	1.5 ug/mL
15	7440-02-0	Nickel	4 ug/mL
16	7440-09-7	Potassium	500 ug/mL
17	7782-49-2	Selenium	3.5 ug/mL
18	7440-22-4	Silver	1 ug/mL
19	7440-23-5	Sodium	500 ug/mL
20	7440-28-0	Thallium	2.5 ug/mL
21	7440-62-2	Vanadium	5 ug/mL
22	7440-66-6	Zinc	6 ug/mL

STANDARD REPORT

Stock Standard - ICP CLP SPK1

ICP CLP SPK1	Description - ISM ICP Matrix Spike Soln #1

Standard: 24679 **Created By:** K. Lockwood **Amount:** 125 mL
MFG: Inorganic Ventures **Create Date:** 7/29/2014 **Expires:** 7/1/2015
MFG Lot: F2-MEB427123 **Lab Lot:** ICP-CLP **Usable:** Yes
Part ID: CLPP-SPK-1

Pos.	Analyte	Name	Concentration
1	7429-90-5	Aluminum	2000 ug/mL
2	7440-39-3	Barium	2000 ug/mL
3	7440-41-7	Beryllium	50 ug/mL
4	7440-47-3	Chromium	200 ug/mL
5	7440-48-4	Cobalt	500 ug/mL
6	7440-50-8	Copper	250 ug/mL
7	7439-89-6	Iron	1000 ug/mL
8	7439-96-5	Manganese	500 ug/mL
9	7440-02-0	Nickel	500 ug/mL
10	7440-22-4	Silver	50 ug/mL
11	7440-62-2	Vanadium	500 ug/mL
12	7440-66-6	Zinc	500 ug/mL

STANDARD REPORT

Stock Standard - ICP CLP SPK2

ICP CLP SPK2	Description - ISM ICP Matrix Spike Soln #2

Standard: 24680
MFG: Inorganic Ventures
MFG Lot: F2-MEB418039
Part ID: CLPP-SPK-5

Created By: K. Lockwood
Create Date: 7/29/2014
Lab Lot: ICP-CLP

Amount: 125 mL
Expires: 7/1/2015
Usable: Yes

Pos.	Analyte	Name	Concentration
1	7440-36-0	Antimony	100 ug/mL
2	7440-38-2	Arsenic	40 ug/mL
3	7440-43-9	Cadmium	50 ug/mL
4	7439-92-1	Lead	20 ug/mL
5	7782-49-2	Selenium	50 ug/mL
6	7440-28-0	Thallium	50 ug/mL

Batch Worklist

Batch: EICP/ 5002 Created: 6/30/2015 17:34 Instrument: ICP08 HBN: 151535

Rule: ISM ICP-AES Analysis Analyst: N. Edwards Status: WP

Workorder: 1516423 SDG: MF9K15 Case: 45299

Pos	Lab ID	Sample ID	Prep Initial	Prep Final	Dust Weight	Type	Mx	Container	Procedure	Mgr	Expire Date	Due Date	Run Date
1	454445	S0				STB	3		ISMAESW..3	5609	12/27/2015	7/3/2015	6/30/2015
	*Run# k15127												
2	454446	SA				STC	3		ISMAESW..3	5609	12/27/2015	7/3/2015	6/30/2015
3	454447	SB				STD	3		ISMAESW..3	5609	12/27/2015	7/3/2015	6/30/2015
4	454448	SC				STD	3		ISMAESW..3	5609	12/27/2015	7/3/2015	6/30/2015
5	454449	SD				STD	3		ISMAESW..3	5609	12/27/2015	7/3/2015	6/30/2015
6	454450	SE				STD	3		ISMAESW..3	5609	12/27/2015	7/3/2015	6/30/2015
7	454451	SF				STD	3		ISMAESW..3	5609	12/27/2015	7/3/2015	6/30/2015
8	454452	S500000				STD	3		ISMAESW..3	5609	12/27/2015	7/3/2015	6/30/2015
9	454453	ICV1				ICV	3		ISMAESW..3	5609	12/27/2015	7/3/2015	6/30/2015
10	454454	ICB1				ICB	3		ISMAESW..3	5609	12/27/2015	7/3/2015	6/30/2015
11	454455	ICSA1				ICSA	3		ISMAESW..3	5609	12/27/2015	7/3/2015	6/30/2015
12	454456	ICSAB1				ICSAB	3		ISMAESW..3	5609	12/27/2015	7/3/2015	6/30/2015
13	454457	CCV1				CCV	3		ISMAESW..3	5609	12/27/2015	7/3/2015	6/30/2015
14	454458	CCB1				CCB	3		ISMAESW..3	5609	12/27/2015	7/3/2015	6/30/2015
15	452106	PBS1	1 grams	100 mL		PBS	4		ISMAESS..4	6180	12/14/2015	7/3/2015	6/30/2015
16	452107	LCS1	1 grams	100 mL		LCS	4		ISMAESS..4	6180	12/14/2015	7/3/2015	6/30/2015
17	1516423001	MF9K15	1.0493 grams	100 mL		SAMPLE	4	1516423001-A	I13AESS..4	5936	12/10/2015	7/3/2015	6/30/2015
18	1516423002	MF9K16	1.3784 grams	100 mL		SAMPLE	4	1516423002-A	I13AESS..4	5936	12/10/2015	7/3/2015	6/30/2015
19	1516423003	MF9K17	1.2813 grams	100 mL		SAMPLE	4	1516423003-A	I13AESS..4	5936	12/10/2015	7/3/2015	6/30/2015
20	1516423004	MF9K19	1.3318 grams	100 mL		SAMPLE	4	1516423004-A	I13AESS..4	5936	12/10/2015	7/3/2015	6/30/2015
21	1516423005	MF9K20	1.4422 grams	100 mL		SAMPLE	4	1516423005-A	I13AESS..4	5936	12/10/2015	7/3/2015	6/30/2015
22	1516423006	MF9K21	1.0422 grams	100 mL		SAMPLE	4	1516423006-A	I13AESS..4	5936	12/10/2015	7/3/2015	6/30/2015
23	1516423007	MF9K22	1.263 grams	100 mL		SAMPLE	4	1516423007-A	I13AESS..4	5936	12/10/2015	7/3/2015	6/30/2015
24	1516423008	MF9K23	1.0848 grams	100 mL		SAMPLE	4	1516423008-A	I13AESS..4	5936	12/10/2015	7/3/2015	6/30/2015
25	1516423009	MF9K25	1.0796 grams	100 mL		SAMPLE	4	1516423009-A	I13AESS..4	5936	12/10/2015	7/3/2015	6/30/2015
26	1516423010	MF9K26	1.3524 grams	100 mL		SAMPLE	4	1516423010-A	I13AESS..4	5936	12/10/2015	7/3/2015	6/30/2015
27	1516423011	MF9K26S	1.3581 grams	100 mL		MS	4	1516423011-A	I13AESS..4	5936	12/10/2015	7/3/2015	6/30/2015
28	1516423012	MF9K26D	1.3598 grams	100 mL		MD	4	1516423012-A	I13AESS..4	5936	12/10/2015	7/3/2015	6/30/2015

Batch Worklist

Pos	Lab ID	Sample ID	Prep Initial	Prep Final	Dust Weight	Type	Mx	Container	Procedure	Mgr	Expire Date	Due Date	Run Date
29	454459	MF9K26L				SD	4		ISMAESW..3	5609	12/10/2015	7/3/2015	6/30/2015
30	1516423013	MF9K27	1.0635 grams	100 mL		SAMPLE	4	1516423013-A	I13AESS..4	5936	12/10/2015	7/3/2015	6/30/2015
31	1516423014	MF9K28	1.1763 grams	100 mL		SAMPLE	4	1516423014-A	I13AESS..4	5936	12/10/2015	7/3/2015	6/30/2015
32	1516423015	MF9K29	1.2888 grams	100 mL		SAMPLE	4	1516423015-A	I13AESS..4	5936	12/10/2015	7/3/2015	6/30/2015
33	454460	CCV2				CCV	3		ISMAESW..3	5609	12/27/2015	7/3/2015	6/30/2015
34	454461	CCB2				CCB	3		ISMAESW..3	5609	12/27/2015	7/3/2015	6/30/2015

Batch Worklist

Batch: EMS/ 4155 Created: 6/25/2015 08:19 Instrument: HBN: 151207

Rule: ISM ICP-MS Soil Prep Analyst: K. Bitner Status: NA

Workorder: 1516423 SDG: MF9K15 Case: 45299

Pos	Lab ID	Sample ID	Prep Initial	Prep Final	Dust Weight	Type	Mx	Container	Procedure	Mgr	Expire Date	Due Date	Run Date
1	453460	PBS1				PBS	4		ISMMSS..4P	5239	12/22/2015	6/19/2015	
2	453461	LCS1				LCSS	4		ISMMSS..4P	5239	12/22/2015	6/19/2015	
3	1516423001	MF9K15				SAMPLE	4	1516423001-A	I13MSS..4P	5936	12/10/2015	6/19/2015	
4	1516423002	MF9K16				SAMPLE	4	1516423002-A	I13MSS..4P	5936	12/10/2015	6/19/2015	
5	1516423003	MF9K17				SAMPLE	4	1516423003-A	I13MSS..4P	5936	12/10/2015	6/19/2015	
6	1516423004	MF9K19				SAMPLE	4	1516423004-A	I13MSS..4P	5936	12/10/2015	6/19/2015	
7	1516423005	MF9K20				SAMPLE	4	1516423005-A	I13MSS..4P	5936	12/10/2015	6/19/2015	
8	1516423006	MF9K21				SAMPLE	4	1516423006-A	I13MSS..4P	5936	12/10/2015	6/19/2015	
9	1516423007	MF9K22				SAMPLE	4	1516423007-A	I13MSS..4P	5936	12/10/2015	6/19/2015	
10	1516423008	MF9K23				SAMPLE	4	1516423008-A	I13MSS..4P	5936	12/10/2015	6/19/2015	
11	1516423009	MF9K25				SAMPLE	4	1516423009-A	I13MSS..4P	5936	12/10/2015	6/19/2015	
12	1516423010	MF9K26				SAMPLE	4	1516423010-A	I13MSS..4P	5936	12/10/2015	6/19/2015	
13	1516423011	MF9K26S				MS	4	1516423011-A	I13MSS..4P	5936	12/10/2015	6/19/2015	
14	1516423012	MF9K26D				MD	4	1516423012-A	I13MSS..4P	5936	12/10/2015	6/19/2015	
15	1516423013	MF9K27				SAMPLE	4	1516423013-A	I13MSS..4P	5936	12/10/2015	6/19/2015	
16	1516423014	MF9K28				SAMPLE	4	1516423014-A	I13MSS..4P	5936	12/10/2015	6/19/2015	
17	1516423015	MF9K29				SAMPLE	4	1516423015-A	I13MSS..4P	5936	12/10/2015	6/19/2015	

STANDARD REPORT

Stock Standard - ISM-MS-LOW

ISM-MS-LOW — **Description - ISM01.3 ICP-MS LCS/Low STD**

Standard: 23704
MFG: Inorganic Ventures
MFG Lot: H2-MEB527135
Part ID: ALS-54

Created By: K. Bitner
Create Date: 6/6/2014
Lab Lot: ALS-54

Amount: 250 mL
Expires: 7/1/2015
Usable: Yes

Pos.	Analyte	Name	Concentration
1	7429-90-5	Aluminum	20 ug/mL
2	7440-36-0	Antimony	2 ug/mL
3	7440-38-2	Arsenic	1 ug/mL
4	7440-39-3	Barium	10 ug/mL
5	7440-41-7	Beryllium	1 ug/mL
6	7440-43-9	Cadmium	1 ug/mL
7	7440-70-2	Calcium	500 ug/mL
8	7440-47-3	Chromium	2 ug/mL
9	7440-48-4	Cobalt	1 ug/mL
10	7440-50-8	Copper	2 ug/mL
11	7439-89-6	Iron	200 ug/mL
12	7439-92-1	Lead	1 ug/mL
13	7439-95-4	Magnesium	500 ug/mL
14	7439-96-5	Manganese	1 ug/mL
15	7440-02-0	Nickel	1 ug/mL
16	7440-09-7	Potassium	500 ug/mL
17	7782-49-2	Selenium	5 ug/mL
18	7440-22-4	Silver	1 ug/mL
19	7440-23-5	Sodium	500 ug/mL
20	7440-28-0	Thallium	1 ug/mL
21	7440-62-2	Vanadium	5 ug/mL
22	7440-66-6	Zinc	2 ug/mL

STANDARD REPORT

Stock Standard - ICPMS CLP MS

ICPMS CLP MS	Description - ICPMS CLP Matrix Spike

Standard: 25853 **Created By:** K. Bitner **Amount:** 125 mL
MFG: Inorganic Ventures **Create Date:** 10/29/2014 **Expires:** 11/1/2015
MFG Lot: H2-MEB552044 **Lab Lot:** IP-PS-14-045 **Usable:** Yes
Part ID: CLP-MS-SPK-REV1

Pos.	Analyte	Name	Concentration
1	7429-90-5	Aluminum	200 ug/mL
2	7440-36-0	Antimony	10 ug/mL
3	7440-38-2	Arsenic	4 ug/mL
4	7440-39-3	Barium	200 ug/mL
5	7440-41-7	Beryllium	5 ug/mL
6	7440-43-9	Cadmium	5 ug/mL
7	7440-47-3	Chromium	20 ug/mL
8	7440-48-4	Cobalt	50 ug/mL
9	7440-50-8	Copper	25 ug/mL
10	7439-92-1	Lead	2 ug/mL
11	7439-96-5	Manganese	50 ug/mL
12	7440-02-0	Nickel	50 ug/mL
13	7782-49-2	Selenium	10 ug/mL
14	7440-22-4	Silver	5 ug/mL
15	7440-28-0	Thallium	5 ug/mL
16	7440-62-2	Vanadium	50 ug/mL
17	7440-66-6	Zinc	50 ug/mL

Batch Worklist

Batch: EMS/ 4171 Created: 6/30/2015 16:04 Instrument: HBN: 151526

Rule: ISM ICP-MS Soil Analysis Analyst: J. Kershisnik Status: WP

Workorder: 1516423 SDG: MF9K15 Case: 45299

Pos	Lab ID	Sample ID	Prep Initial	Prep Final	Dust Weight	Type	Mx	Container	Procedure	Mgr	Expire Date	Due Date	Run Date
1	454400	S0				STB	4		ISMMSS...4	5073	12/27/2015	7/3/2015	
	*Run # MS215065												
2	454401	S				STC	4		ISMMSS...4	5073	12/27/2015	7/3/2015	
3	454402	S10				STD	4		ISMMSS...4	5073	12/27/2015	7/3/2015	
4	454403	S50				STD	4		ISMMSS...4	5073	12/27/2015	7/3/2015	
5	454404	S200				STD	4		ISMMSS...4	5073	12/27/2015	7/3/2015	
6	454405	S500				STD	4		ISMMSS...4	5073	12/27/2015	7/3/2015	
7	454406	S2500				STD	4		ISMMSS...4	5073	12/27/2015	7/3/2015	
8	454407	ICV1				ICV	4		ISMMSS...4	5073	12/27/2015	7/3/2015	
9	454408	ICB1				ICB	4		ISMMSS...4	5073	12/27/2015	7/3/2015	
10	454409	ICSA1				ICSA	4		ISMMSS...4	5073	12/27/2015	7/3/2015	
11	454410	ICSAB1				ICSAB	4		ISMMSS...4	5073	12/27/2015	7/3/2015	
12	454411	CCV1				CCV	4		ISMMSS...4	5073	12/27/2015	7/3/2015	
13	454412	CCB1				CCB	4		ISMMSS...4	5073	12/27/2015	7/3/2015	
14	453460	PBS1	1 grams	100 mL		PBS	4		ISMMSS...4	5239	12/22/2015	7/3/2015	
15	453461	LCS1	1 grams	100 mL		LCSS	4		ISMMSS...4	5239	12/22/2015	7/3/2015	
16	1516423001	MF9K15	1.3366 grams	100 mL		SAMPLE	4	1516423001-A	I13MSS...4	5936	12/10/2015	7/3/2015	
17	1516423002	MF9K16	1.0819 grams	100 mL		SAMPLE	4	1516423002-A	I13MSS...4	5936	12/10/2015	7/3/2015	
18	1516423003	MF9K17	1.1521 grams	100 mL		SAMPLE	4	1516423003-A	I13MSS...4	5936	12/10/2015	7/3/2015	
19	1516423004	MF9K19	1.079 grams	100 mL		SAMPLE	4	1516423004-A	I13MSS...4	5936	12/10/2015	7/3/2015	
20	1516423005	MF9K20	1.3132 grams	100 mL		SAMPLE	4	1516423005-A	I13MSS...4	5936	12/10/2015	7/3/2015	
21	1516423006	MF9K21	1.1769 grams	100 mL		SAMPLE	4	1516423006-A	I13MSS...4	5936	12/10/2015	7/3/2015	
22	1516423007	MF9K22	1.4227 grams	100 mL		SAMPLE	4	1516423007-A	I13MSS...4	5936	12/10/2015	7/3/2015	
23	1516423008	MF9K23	1.3482 grams	100 mL		SAMPLE	4	1516423008-A	I13MSS...4	5936	12/10/2015	7/3/2015	
24	1516423009	MF9K25	1.3815 grams	100 mL		SAMPLE	4	1516423009-A	I13MSS...4	5936	12/10/2015	7/3/2015	
25	1516423010	MF9K26	1.4553 grams	100 mL		SAMPLE	4	1516423010-A	I13MSS...4	5936	12/10/2015	7/3/2015	
26	1516423011	MF9K26S	1.4563 grams	100 mL		MS	4	1516423011-A	I13MSS...4	5936	12/10/2015	7/3/2015	
27	1516423012	MF9K26D	1.4579 grams	100 mL		MD	4	1516423012-A	I13MSS...4	5936	12/10/2015	7/3/2015	
28	454413	MF9K26L				SD	4		ISMMSS...4	5073	12/10/2015	7/3/2015	

Batch Worklist

Pos	Lab ID	Sample ID	Prep Initial	Prep Final	Dust Weight	Type	Mx	Container	Procedure	Mgr	Expire Date	Due Date	Run Date
29	1516423013	MF9K27	1.1749 grams	100 mL		SAMPLE	4	1516423013-A	I13MSS...4	5936	12/10/2015	7/3/2015	
30	1516423014	MF9K28	1.2266 grams	100 mL		SAMPLE	4	1516423014-A	I13MSS...4	5936	12/10/2015	7/3/2015	
31	1516423015	MF9K29	1.4148 grams	100 mL		SAMPLE	4	1516423015-A	I13MSS...4	5936	12/10/2015	7/3/2015	
32	454414	CCV2				CCV	4		ISMMSS...4	5073	12/27/2015	7/3/2015	
33	454415	CCB2				CCB	4		ISMMSS...4	5073	12/27/2015	7/3/2015	

Batch Worklist

Batch: EHG/ 5893 Created: 6/25/2015 03:44 Instrument: HBN: 151193

Rule: ISM Mercury CS1 Prep Analyst: S. Stewart Status: NA

Workorder: 1516423 SDG: MF9K15 Case: 45299

Pos	Lab ID	Sample ID	Prep Initial	Prep Final	Dust Weight	Type	Mx	Container	Procedure	Mgr	Expire Date	Due Date	Run Date
1	453403	S0				STB	4		ISMHGS..4P	6180	7/21/2015	6/19/2015	
2	453404	S0.2				STC	4		ISMHGS..4P	6180	7/21/2015	6/19/2015	
3	453405	S0.5				STD	4		ISMHGS..4P	6180	7/21/2015	6/19/2015	
4	453406	S1.0				STD	4		ISMHGS..4P	6180	7/21/2015	6/19/2015	
5	453407	S5.0				STD	4		ISMHGS..4P	6180	7/21/2015	6/19/2015	
6	453408	S10				STD	4		ISMHGS..4P	6180	7/21/2015	6/19/2015	
7	453409	ICV				ICV	4		ISMHGS..4P	6180	7/21/2015	6/19/2015	
8	453410	ICB				ICB	4		ISMHGS..4P	6180	7/21/2015	6/19/2015	
9	453411	CCV				CCV	4		ISMHGS..4P	6180	7/21/2015	6/19/2015	
10	453412	CCB				CCB	4		ISMHGS..4P	6180	7/21/2015	6/19/2015	
11	453413	PBS1				PBS	4		ISMHGS..4P	6180	7/21/2015	6/19/2015	
12	1516423001	MF9K15				SAMPLE	4	1516423001-A	I13HGS..4P	5936	7/9/2015	6/19/2015	
13	1516423002	MF9K16				SAMPLE	4	1516423002-A	I13HGS..4P	5936	7/9/2015	6/19/2015	
14	1516423003	MF9K17				SAMPLE	4	1516423003-A	I13HGS..4P	5936	7/9/2015	6/19/2015	
15	1516423004	MF9K19				SAMPLE	4	1516423004-A	I13HGS..4P	5936	7/9/2015	6/19/2015	
16	1516423005	MF9K20				SAMPLE	4	1516423005-A	I13HGS..4P	5936	7/9/2015	6/19/2015	
17	1516423006	MF9K21				SAMPLE	4	1516423006-A	I13HGS..4P	5936	7/9/2015	6/19/2015	
18	1516423007	MF9K22				SAMPLE	4	1516423007-A	I13HGS..4P	5936	7/9/2015	6/19/2015	
19	1516423008	MF9K23				SAMPLE	4	1516423008-A	I13HGS..4P	5936	7/9/2015	6/19/2015	
20	1516423009	MF9K25				SAMPLE	4	1516423009-A	I13HGS..4P	5936	7/9/2015	6/19/2015	
21	1516423010	MF9K26				SAMPLE	4	1516423010-A	I13HGS..4P	5936	7/9/2015	6/19/2015	
22	1516423011	MF9K26S				MS	4	1516423011-A	I13HGS..4P	5936	7/9/2015	6/19/2015	
23	1516423012	MF9K26D				MD	4	1516423012-A	I13HGS..4P	5936	7/9/2015	6/19/2015	
24	1516423013	MF9K27				SAMPLE	4	1516423013-A	I13HGS..4P	5936	7/9/2015	6/19/2015	
25	1516423014	MF9K28				SAMPLE	4	1516423014-A	I13HGS..4P	5936	7/9/2015	6/19/2015	
26	1516423015	MF9K29				SAMPLE	4	1516423015-A	I13HGS..4P	5936	7/9/2015	6/19/2015	

ISM01.3 – Mercury in Soil: Digestion & Analysis:

Workorder and Sample Information + Prep-Batching Information

Workorder ID	HBN	SDG	Case
1516423	151193	MF9K15	45299
SS			
~~6/25~~ 07/01/2015			

Preparation Information

Preparer Name: Shane Stewart	
Prep Start Date: 07/01/2015	Prep Start Time: 0500

Method Information

Sample IDs are verified by matching the laboratory and client sample labels.

0.5g - 0.6g representative sample aliquots are weighed, then transferred into digestion vessels, rinsing each weighing-dish with 5mL ASTM Type II H_2O into the appropriate vessel. Weights are recorded on the batch sheet.

Balance ID: 102683

10mL of ASTM Type II H_2O is added to digestion vessels for stds and QCs. Mercury Standards and QCs are spiked as indicated below. Hg concentration in standards and samples is based on a final aqueous volume of 100mL.

Prepared Standard Name	Hg Spike Used	Spiking Volume	Spike ID No.	Pipette Used	[Hg] µg/L
S0	NONE	NONE	NONE	NONE	0
S0.2	STD B:	200µL	28508	Hg-1A	0.2
S0.5	0.1 µg/mL	500µL	↓	↓	0.5
S1.0	STD A:	100µL	28538	Hg-3	1.0
S5.0/CCV	1.0 µg/mL	500µL		Hg-1A	5.0
S10.0		1000µL	↓	↓	10.0
ICB/CCB/PBS	NONE	NONE	NONE	NONE	0
ICV	STD:ICV5 -0508	1000µL	21478	Hg-1A	4.0
MS	STD A	250µL	28538	↓	0.5 µg/g
MD	NONE	Hg target = Parent sample [Hg]			
MS/MD IDs: MF9K26S, MF9K26D					

5mL of freshly prepared aqua-regia (3:1 HCl + HNO_3) is added to each vessel.

HCl	Lot: 54310	Manufacturer: EMD
HNO_3	Lot: 0000104736	Manufacturer: JT Baker

Samples, QCs, and standards are digested for two minutes on a hot block set to maintain a representative H_2O temp-blank at 90 ± 3 °C.

HB #: 23B	Hood #: 23	Thermometer ID: 11547871	
On this hotblock: STDs, QCs, Samples			
Start Time	End Time	Start Temp	End Temp
05:40	05:42	89.2 °C	89.0 °C
~~HB #:~~	Hood #:	Thermometer ID:	
On this hotblock: SS ~~CH~~ 07/01/2015			
Start Time	End Time	~~Start Temp~~	~~End Temp~~
		°C	°C

Allow all digestion vessels to cool. Then 50mL ASTM Type II H_2O and 15 mL 5% $KMnO_4$ is added to each vessel. Purple $KMnO_4$ color should persist for 15 minutes. If not then add additional 5% $KMnO_4$ to each vessel. All standards, QCs, and samples must be given equal $KMnO_4$.

5% $KMnO_4$	Start time: 0610	End time: 0627	
	Reagents Log: AAcurrent\mercury\reagents		
	Entry: #29	Made: 06/17/2015	Exp: 06/17/2016
Was additional $KMnO_4$ used? NO		How much? NA	

Samples, QCs, and standards are digested for thirty minutes on a hot block set to maintain a representative H_2O temp-blank at 90 ± 3 °C.

HB #: 23B	Hood #: 23	Thermometer ID: 11547871	
On this hotblock: STDs, QCs, Samples			
Start Time	End Time	Start Temp	End Temp
0615	0716	88.8 °C	89.1 °C
~~HB #:~~	Hood #:	Thermometer ID:	
On this hotblock: SS 07/01/2015			
Start Time	End Time	~~Start Temp~~	~~End Temp~~
		°C	°C

Allow samples to cool before analysis. 50mL ASTM Type II H_2O is added to each spiked standard and 55mL ASTM Type II H_2O is added to each weighed sample and QC.

Physical description: Sample colors, textures, and clarities are recorded with the sample weights. (Colors: violet, white, brown, grey, red, blue, yellow, green, orange, or black) (Textures: coarse, medium, or fine) (Clarities: clear, cloudy, or opaque).

~~Preparation Comments:~~

NA SS 07/01/2015

Analysis Information

Analyst Name: Christopher R Hausner	
Date Received for Analysis: 07/01/2015	Time Received: 09:58

12% $NH_2OH{\cdot}HCl$ is added just prior to analysis in order to reduce any remaining $KMnO_4$ from the digestion. 6 mL 12% $NH_2OH{\cdot}HCl$ is added to all standards and samples for each 15mL 5% $KMnO_4$ that were used in digestion. Mix standards and samples well by shaking capped vessels. All $KMnO_4$ color should be gone. The final volume of standards and samples is 100 mL sample + 36 mL reagents + additional reagents if required as noted in the preparation info. Because calibration standards receive the same reagents as samples the Hg concentration in all standards, QCs, and samples is calculated from the final aqueous volume of 100mL for analysis regardless of digestion reagents.

12% $NH_2OH{\cdot}HCl$	Reagents Log: AAcurrent\mercury\reagents		
	Entry: 21	Made: 03/27/2015	Exp: 03/27/2016

CVAA Instrument Information

Type: Cold vapor atomic absorption	Wavelength: 253.7 nm
Instrument Type: CETAC M-7500	Lab ID: AACV02

Reagent Information

10% $SnCl_2$ + 7% HCl	Reagents Log: AAcurrent\mercury\reagents		
	Entry: 31	Made: 06/24/2015	Exp: 06/24/2016
5% HCl + 5% HNO_3	Reagents Log: AAcurrent\mercury\reagents		
	Entry: 30	Made: 06/18/2015	Exp: 06/18/2016

Run Information #1 – SDG: MF9K15

Run Date: 07/01/2015	Start Time: 12:48	End Time: 13:19
Analysis HBN: 151598		Run Data File: CV2-15192

Run Information #2 – SDG:

Run Date:	Start Time:	End Time:
Analysis HBN:		Run Data File:

Run Information #3 – SDG: NONE CH 07/01/2015

Run Date:	Start Time:	End Time:
Analysis HBN:		Run Data File:

Dilution Information

Sample	Dilution	Pipette(s)	Reason
NONE			
		CH ~~05~~ CH 07/01/2015	

Sample Result Information

Data Conversion: (µg/L result)(dilution factor) = (µg/L final result)
QC Control Limits: Calibration R^2 0.995 minimum; Standards ± 30%; ICV,CCV ± 15%; MS ± 25%; Sample/MD-RPD 20%
CRQL: 0.1 mg/kg [Hg] MDL: 0.001457 mg/kg [Hg]; Effective 01/15/2015 - 01/15/2016
This log page, prep and analysis batch sheets, and any associated data is scanned and saved as a PDF file named for the analysis HBN and stored in a network folder also named for the analysis HBN. Saved to: \\AlsItws013\DataReview
Mercury reagents notebook pages are scanned and saved online to: \\AlsItws013\AAcurrent\Mercury\Reagents
ALS SOP: IT-EP-ISM-HG

Additional Information

Comments:

NONE CH 07/01/2015

STANDARD REPORT

Working Standard - Hg B Cal Sol

Hg B Cal Sol		**Description - Hg B Calibration Solution**
Standard: 28508	**Created By:** S. Stewart	**Amount:** 50 mL
MFG: SS	**Create Date:** 06/29/2015	**Expires:** 07/05/2015
MFG Lot:	**Lab Lot:** HgB 062915-070515	**Usable:** Yes
Part ID:		

Pos.	Analyte	Name	Concentration
1	7439-97-6	Mercury	0.1 ug/mL

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
109	ASTM H2O	ASTM Type II Water	LAB 109	48.5 mL	11/07/2025
28470	HNO3	Concentrated Nitric Acid	HNO3 (104736)	1 mL	06/22/2025
28505	Hg Working	Hg CCV/Calibration Working	HgWS 062915	0.5 mL	07/05/2015

STANDARD REPORT

Working Standard - Hg A Cal Sol

Hg A Cal Sol		**Description - Hg A Calibration Solution**
Standard: 28538	**Created By:** S. Stewart	**Amount:** 50 mL
MFG: SS	**Create Date:** 07/01/2015	**Expires:** 07/05/2015
MFG Lot:	**Lab Lot:** HgA 070115-070515	**Usable:** Yes
Part ID:		

Pos.	Analyte	Name	Concentration
1	7439-97-6	Mercury	1 ug/mL

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
109	ASTM H2O	ASTM Type II Water	LAB 109	44 mL	11/07/2025
28470	HNO3	Concentrated Nitric Acid	HNO3 (104736)	1 mL	06/22/2025
28505	Hg Working	Hg CCV/Calibration Working	HgWS 062915	5 mL	07/05/2015

STANDARD REPORT

Stock Standard - Hg EPA ICV

Hg EPA ICV			Description - Hg EPA ICV
Standard: 21478	**Created By:** C. Hansen		**Amount:** 125 mL
MFG: EPA Reference Material	**Create Date:** 12/2/2013		**Expires:** 12/2/2018
MFG Lot: ICV5-0508 Hg	**Lab Lot:** IHg-CLPICV		**Usable:** Yes
Part ID: ICV-5-0508 Hg			

Pos.	Analyte	Name	Concentration
1	7439-97-6	Mercury	400 ug/L

STANDARD REPORT

Constituent

Stock Standard - Hg WS Stock

Hg WS Stock			Description - Hg CCV/Cal Stock Solution
Standard: 26171	**Created By:** C. Hansen		**Amount:** 125 mL
MFG: Inorganic Ventures	**Create Date:** 12/1/2015		**Expires:** 12/1/2015
MFG Lot: G2-HG02114	**Lab Lot:** InorganicVenturesHg1000		**Usable:** Yes
Part ID: AAHG1-1			

Pos.	Analyte	Name	Concentration
1	7439-97-6	Mercury	1000 mg/L

STANDARD REPORT

Constituent

Working Standard - Hg Working

Hg Working	Description - Hg CCV/Calibration Working

Standard:	28505	**Created By:**	S. Stewart	**Amount:**	50 mL
MFG:	SS	**Create Date:**	06/29/2015	**Expires:**	07/05/2015
MFG Lot:		**Lab Lot:**	HgWS 062915	**Usable:**	Yes
Part ID:					

Pos.	Analyte	Name	Concentration
1	7439-97-6	Mercury	10 ug/mL

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
109	ASTM H2O	ASTM Type II Water	LAB 109	48.5 mL	11/07/2025
26171	Hg WS Stock	Hg CCV/Cal Stock Solution	InorganicVenturesHg10	0.5 mL	12/01/2015
28470	HNO3	Concentrated Nitric Acid	HNO3 (104736)	1 mL	06/22/2025

STANDARD REPORT

Constituent

Solvent Standard - ASTM H2O

ASTM H2O	Description - ASTM Type II Water

Standard:	109	**Created By:**	ALS Support (Lims)	**Amount:**	1000 L
MFG:	DCL In House	**Create Date:**	10/6/2005	**Expires:**	11/7/2025
MFG Lot:		**Lab Lot:**	LAB 109	**Usable:**	Yes
Part ID:					

Pos.	Analyte	Name	Concentration
Solvent - Analyte(s) not applicable			

STANDARD REPORT

Constituent

Solvent Standard - HNO3

HNO3	Description - Concentrated Nitric Acid

Standard:	28470	**Created By:**	C. Hansen	**Amount:**	2.5 L
MFG:	JT Baker	**Create Date:**	6/22/2015	**Expires:**	6/22/2025
MFG Lot:	0000104736	**Lab Lot:**	HNO3 (104736)	**Usable:**	Yes
Part ID:					

Pos.	Analyte	Name	Concentration
Solvent - Analyte(s) not applicable			

ALS Reagent Report

ID Number: 29 Description: 5% Potassium Permanganate

Analyst: Christopher Hansen

Date Created: 06/17/2015 Expiration Date: 06/17/2016

Pipettes Used:

Balanced Used: 102887

Materials Used, Manufacturer, Lots, Amounts, Final Concentrations if applicable

Crystalline potassium permanganate, low in mercury, ACS 99.0% min.
Alfa Aesar LOT: K15Z046.
100g potassium permanganate crystals were dissolved into 2L ASTM type II water.
Four 2L bottles (8L) were prepared.

: 00329

Batch Worklist

Batch: EHG/ 5904 Created: 7/1/2015 14:00 Instrument: HBN: 151598

Rule: ISM Mercury Soil Analysis Analyst: C. Hansen Status: WP

Workorder: 1516423 SDG: MF9K15 Case: 45299

Pos	Lab ID	Sample ID	Prep Initial	Prep Final	Dust Weight	Type	Mx	Container	Procedure	Mgr	Expire Date	Due Date	Run Date
1	453403	S0	.5 grams	100 mL		STB	4		ISMHGS...4	6180	7/21/2015	7/3/2015	
2	453404	S0.2	.5 grams	100 mL		STC	4		ISMHGS...4	6180	7/21/2015	7/3/2015	
3	453405	S0.5	.5 grams	100 mL		STD	4		ISMHGS...4	6180	7/21/2015	7/3/2015	
4	453406	S1.0	.5 grams	100 mL		STD	4		ISMHGS...4	6180	7/21/2015	7/3/2015	
5	453407	S5.0	.5 grams	100 mL		STD	4		ISMHGS...4	6180	7/21/2015	7/3/2015	
6	453408	S10	.5 grams	100 mL		STD	4		ISMHGS...4	6180	7/21/2015	7/3/2015	
7	453409	ICV	.5 grams	100 mL		ICV	4		ISMHGS...4	6180	7/21/2015	7/3/2015	
8	453410	ICB	.5 grams	100 mL		ICB	4		ISMHGS...4	6180	7/21/2015	7/3/2015	
9	453411	CCV	.5 grams	100 mL		CCV	4		ISMHGS...4	6180	7/21/2015	7/3/2015	
10	453412	CCB	.5 grams	100 mL		CCB	4		ISMHGS...4	6180	7/21/2015	7/3/2015	
11	453413	PBS1	.5 grams	100 mL		PBS	4		ISMHGS...4	6180	7/21/2015	7/3/2015	
12	1516423001	MF9K15	.5795 grams	100 mL		SAMPLE	4	1516423001-A	I13HGS...4	5936	7/9/2015	7/3/2015	
13	1516423002	MF9K16	.5493 grams	100 mL		SAMPLE	4	1516423002-A	I13HGS...4	5936	7/9/2015	7/3/2015	
14	1516423003	MF9K17	.5307 grams	100 mL		SAMPLE	4	1516423003-A	I13HGS...4	5936	7/9/2015	7/3/2015	
15	1516423004	MF9K19	.5608 grams	100 mL		SAMPLE	4	1516423004-A	I13HGS...4	5936	7/9/2015	7/3/2015	
16	1516423005	MF9K20	.5095 grams	100 mL		SAMPLE	4	1516423005-A	I13HGS...4	5936	7/9/2015	7/3/2015	
17	1516423006	MF9K21	.543 grams	100 mL		SAMPLE	4	1516423006-A	I13HGS...4	5936	7/9/2015	7/3/2015	
18	1516423007	MF9K22	.5338 grams	100 mL		SAMPLE	4	1516423007-A	I13HGS...4	5936	7/9/2015	7/3/2015	
19	1516423008	MF9K23	.5679 grams	100 mL		SAMPLE	4	1516423008-A	I13HGS...4	5936	7/9/2015	7/3/2015	
20	1516423009	MF9K25	.5084 grams	100 mL		SAMPLE	4	1516423009-A	I13HGS...4	5936	7/9/2015	7/3/2015	
21	1516423010	MF9K26	.5006 grams	100 mL		SAMPLE	4	1516423010-A	I13HGS...4	5936	7/9/2015	7/3/2015	
22	1516423011	MF9K26S	.5027 grams	100 mL		MS	4	1516423011-A	I13HGS...4	5936	7/9/2015	7/3/2015	
23	1516423012	MF9K26D	.5027 grams	100 mL		MD	4	1516423012-A	I13HGS...4	5936	7/9/2015	7/3/2015	
24	1516423013	MF9K27	.5369 grams	100 mL		SAMPLE	4	1516423013-A	I13HGS...4	5936	7/9/2015	7/3/2015	
25	1516423014	MF9K28	.5076 grams	100 mL		SAMPLE	4	1516423014-A	I13HGS...4	5936	7/9/2015	7/3/2015	
26	1516423015	MF9K29	.512 grams	100 mL		SAMPLE	4	1516423015-A	I13HGS...4	5936	7/9/2015	7/3/2015	

File #: k15127

WorkOrder#	Sample #'s	Analytes/Matrix	Prep Batch HBN	Prep Date/Time	Prep Method
1516423	MF9K15-17,19-23,25-29	See Below/Soil	150704	06/18/2015 06:30	3050B

Analytes = Al, Ca, Fe, Mg, Mn, K, Na

3050B Conversion Factor: (µg/L from instrument)(Dilution Factor)(0.1 L/1.0 g) = 0.1 µg/g

CALIBRATION AND QC STANDARDS UTILIZED:

	ID #	Book/Page
S0/ICB/CCB	ICP-15-040	4535/55
SA	28502	Horizon
SB	27475	Horizon
SC	27476	Horizon
SD	28122	Horizon
SE/CCV	28501	Horizon
SF	28123	Horizon
S500000	27551	Horizon
ICV	27550	Horizon
ICSA	27474	Horizon
ICSAB	28265	Horizon
Bubbler Rinse	ICP-15-030	4535/54
Internal Standard	ICP-15-041	4535/55
Rinse	ICP-15-047	4535/55

SDG # MF9K15
CASE # 45299
Account # 8201
Analysis Method: ISM01.3
Analysis Date: 06/30/2015
Instrument ID: ICP08
HBN # 151535
Analyst: Neil Edwards

ANALYSIS PARAMETERS:
Pump Rate = 27 rpm
RF Power = 1200 W
Auxiliary Gas = 0.5 L/min
Nebulizer Flow = 0.50 L/min
Coolant Gas Flow = 16 L/min
ASXpress Plus = 3.5 mL Loop

Dilutions: No dilutions were required.

Pipettes: ICP-10

Comments: No problems during analysis.

A Serial Dilution was done by combining 2 mL of MF9K26 with 8 mL of ICP-15-040 (4535/55) in a 15 mL tube.

Project No. N/A

TITLE ALS ENVIRONMENTAL - ICP08 INSTRUMENT ANALYSIS RUN LOGBOOK

Book No. 4694

From Page No. 58

DATE	TIME ON	TIME OFF	TOTAL TIME	METHOD	MATRIX	HBN # (S)	COMMENTS	LOW SC IS / HIGH SC IS	# OF SAMPLES	RUN #	INIT
05/15/2015	13:14	15:06	112 MIN	6010C	TCLP	148786	N/A	3838 / 488040	6	K15094	NE
05/16/2015	09:34	11:25	111 MIN	6010C	TCLP WATER	148815	N/A	3848 / 489930	9	K15095	NE
05/16/2015	15:39	17:26	107 MIN	6010C	DS	148916	N/A	3884 / 491020	11	K15096	NE
05/19/2015	15:04	16:58	114 MIN	6010C	TCLP WATER	148970	N/A	4301 / 507620	6	K15097	NE
05/20/2015	10:46	12:06	80 MIN	6010C	WATER	148816	N/A	4106 / 491950	4	K15098	NE
05/20/2015	14:02	15:33	91 MIN	6010C	DS	149056	N/A	4141 / 495600	7	K15099	NE
05/22/2015	09:38	11:18	100 MIN	6010C	DS WATER	149179, 149181	N/A	4084 / 436930	8	K15100	NE
05/22/2015	11:37	13:36	119 MIN	6010C	WATER	149182	N/A	4064 / 436270	2	K15101	NE
05/26/2015	15:53	16:43	50 MIN	6010C	DS	149346	N/A	4113 / 450450	1	K15102	NE
05/27/2015	14:02	15:17	75 MIN	6010C	DS	149412	N/A	4281 / 509130	6	K15103	NE
05/28/2015	18:45	20:06	81 MIN	6010C	DS	149518	N/A	4270 / 501360	5	K15104	NE
05/29/2015	11:42	13:24	102 MIN	6010C	TCLP WATER	149522	N/A	4351 / 505230	6	K15105	NE
06/01/2015	14:07	15:04	57 MIN	6010C	DS	1491606	N/A	4077 / 492880	3	K15106	NE
06/04/2015	12:37	16:20	223 MIN	6010C	WATER TCLP DS	149860, 149830, 149822	N/A	3928 / 515300	21	K15107	NE
06/05/2015	12:26	14:00	94 min.	ISM01.3 2015	Soil	1514325	MF9L76	4240 / 638090	12	K15108	gcs
06/08/2015	10:52	12:37	105 min.	ISM01.3 2015	Soil	1514325	MF9L76	4293 / 650040	12	K15109	gcs
06/10/2015	06:53	08:17	84 min.	ISM01.3 2015	Water	1514838	Mod 1999.4 MC0BJ2	3862 / 561000	5	K15110	gcs
06/10/2015	08:45	11:06	141 min.	ISM01.3 2015	Soil	1515388	MF9L98	3928 / 555200	20	K15111	gcs
06/11/2015	13:11	14:43	92 MIN	6010C	WATER	150345	N/A	3789 / 487460	8	K15112	NE
06/12/2015	10:59	12:58	119 min.	ISM01.3 2015	Soil	gcs 6/12/15 ~~1515564~~ - 1515559	MF9M21	3434 / 461170	20	K15113	gcs
06/14/2015	09:16	11:12	116 min.	ISM01.3 2015	Soil	1515388	MF9L98	3563 / 478120	20	K15114	gcs
06/14/2015	11:26	12:38	72 min.	ISM01.3 2015	Soil	1515562	MF9M36	3562 / 497700	5	K15115	gcs
06/16/2015	09:59	11:14	75 MIN	6010C	DS	150582	N/A	3625 / 421520	4	K15116	NE
06/17/2015	15:02	16:23	81 MIN	6010C	DS	150719	N/A	3716 / 421100	9	K15117	NE
06/19/2015	10:45	12:21	96 MIN	6010C	DS TCLP	150881, 150895	N/A	3522 / 415840	6	K15118	NE
06/19/2015	12:38	14:21	103 min.	ISM01.3 2015	Soil	1515392, 1515633	MF9M15	3517 / 483610	13	K15119	gcs
06/22/2015	12:19	14:15	116 min.	ISM01.3 2015	Soil	1515632	MF9M48	3562 / 460330	20	K15120	gcs
06/22/2015	15:59	17:53	114 min.	ISM01.3 2015	Soil	1515745	MF9K00	3432 / 467590	19	K15121	gcs
06/26/2015	13:10	15:09	119 min.	ISM01.3 2015	Water	1516259	MC0AP6	3962 / 517140	15	K15122	gcs
06/26/2015	15:20	17:34	134 min.	ISM01.3 2015	Soil	1516249	MC0AX0	4006 / 514920	19	K15123	gcs
06/29/2015	16:33	18:05	92 MIN	6010C	DS	151442	N/A	3723 / 440580	12	K15124	NE
06/30/2015	11:19	12:25	66 MIN	ISM01.3 2015	SOIL	1516213 - 151490	MC0B35	3669 / 478510	2	K15125	NE
06/30/2015	12:43	14:17	94 MIN	ISM01.3 2015	SOIL	1516424 - 151519	MF9K02	3678 / 483330	14	K15126	NE
06/30/2015	14:49	16:24	95 MIN	ISM01.3 2015	SOIL	1516423 - 151535	MF9K15	3738 / 493140	14	K15127	NE

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Witnessed & Understood by me, Jake Kershaw

Date 06/30/2015

Invented by: N/A

Recorded by: [signature]

Date 06/30/2015

Project No. NA

TITLE ALS Environmental ICP Solutions/Reagents Logbook

Book No. 4535

From Page No. 53

Date	ICP Solution #	Solution Type	Primary Solution Horizon ID #	Acid Lots	Expiration Date	Recipe Page	Initials	Comments
01/26/2015	ICP-15-004	Rinse 2% HNO_3	NA	HNO_3-0000088968	07/26/2015	1	gcs	2L made
01/27/2015	ICP-15-005	2% HNO_3	NA	HNO_3-0000088969	07/27/2015	1	gcs	1L made
02/09/2015	ICP-15-006	RINSE 5%/5%	N/A	HNO_3-0000088969 HCl-54169	08/09/2015	1	NE	2L MADE
02/17/2015	ICP-15-007	5%/5%	N/A	HNO_3-0000088969 HCl-54169	08/17/2015	1	NE	2L SPLIT INTO TWO 1L BOTTLES FOR SO, DILUTENT..
02/23/2015	ICP-15-008	5%/5%	N/A	HNO_3-0000088969 HCl-54169	08/23/2015	1	NE	2L SPLIT INTO TWO 1L BOTTLES FOR SO, DILUTENT
02/23/2015	ICP-15-009	RINSE 5%/5%	N/A	HNO_3-0000088969 HCl-54169	08/23/2015	1	NE	2L BUBBLER RINSE
↓	ICP-15-010	↓	↓	↓	↓	↓	↓	↓
02/23/2015	ICP-15-011	ScYIS	Sc-27176; Y-26858	HNO_3-0000088969 HCl-54169	08/23/2015	1	NE	2L MADE
↓	ICP-15-012	↓	↓	↓	↓	↓	↓	↓
↓	ICP-15-013	↓	↓	↓	↓	↓	↓	↓
02/23/2015	ICP-15-014	RINSE 5%/5%	N/A	HNO_3-0000088969 HCl-54169	08/23/2015	1	NE	10L MADE
02/23/2015	ICP-15-015	RINSE 5%/5%	N/A	HNO_3-0000088969 HCl-54169	08/23/2015	1	NE	10L MADE
03/05/2015	ICP-15-016	Rinse 5%/5%	NA	HNO_3-0000088969 HCl-54169	09/05/2015	1	gcs	2L made
03/05/2015	ICP-15-017	Rinse 5%/5%	NA	HNO_3-0000088969 HCl-54169	09/05/2015	1	gcs	2L made
03/05/2015	ICP-15-018	ScYIS	Sc-27176 Y-26858	HNO_3-0000088969 HCl-54169	09/05/2015	1	gcs	2L made
03/05/2015	ICP-15-019	ScYIS	Sc-27176, Y-26858	HNO_3-0000088969 HCl-54169	09/05/2015	1	gcs	2L made
03/05/2015	ICP-15-020	ScYIS	Sc-27176, Y-26858	HNO_3-0000088969 HCl-54169	09/05/2015	1	gcs	2L made
03/05/2015	ICP-15-021	2% ScYIS	Sc-27176, Y-26858	HNO_3-0000088969	09/05/2015	1	gcs	2L made
03/05/2015	ICP-15-022	Rinse 2% HNO_3	NA	HNO_3-0000088969	09/05/2015	1	gcs	2L made
03/05/2015	ICP-15-023	5%/5%	NA	HNO_3-0000088969 HCl-54169	09/05/2015	1	gcs	2L split into 2-1L bottles for SO, Diluent
03/10/2015	ICP-15-024	200.7 Diluent	NA	HNO_3-0000099263 HCl-54169	09/10/2015	1	gcs	500mL made
03/13/2015	ICP-15-025	~~ISA~~ NE 03/13/2015 TAS	Zn-26859	HNO_3-0000099263 MeOH-DL599	09/13/2015	1	NE	2L MADE
03/24/2015	ICP-15-026	2% HNO_3	NA	HNO_3-0000088969	09/24/2015	1	gcs	500mL made
03/25/2015	ICP-15-027	5%/5%	N/A	HNO_3-0000099263 HCl-54169	09/25/2015	1	NE	2L SPLIT INTO 2-1L BOTTLES FOR SO, DILUTENT, ETC...
04/06/2015	ICP-15-028	Rinse 2% HNO_3	NA	HNO_3-0000099263	10/06/2015	1	gcs	1L made
04/10/2015	ICP-15-029	Rinse 5%/5%	NA	HNO_3-0000099263 HCl-54169	10/10/2015	1	gcs	2L made
04/10/2015	ICP-15-030	Rinse 5%/5%	NA	HNO_3-0000099263 HCl-54169	10/10/2015	1	gcs	2L made
04/10/2015	ICP-15-031	Rinse 5%/5%	NA	HNO_3-0000099263 HCl-54169, 54310	10/10/2015	1	gcs	2L made
04/10/2015	ICP-15-032	ScYIS	Sc-27176, Y-26858	HNO_3-0000099263 HCl-54310	10/10/2015	1	gcs	2L made
04/10/2015	ICP-15-033	ScYIS	Sc-27176, Y-26858	HNO_3-0000099263 HCl-54310	10/10/2015	1	gcs	2L made
04/10/2015	ICP-15-034	Rinse 5%/5%	NA	HCl-54028 54169R 54310 HNO_3-0000088969 0000089288 0000104117	10/10/2015	1	gcs	10L made
04/10/2015	ICP-15-035	Rinse 5%/5%	NA	HNO_3-0000088969 HCl-54378 0000104117	10/10/2015	1	gcs	10L made
04/10/2015	ICP-15-036	Rinse 2% HNO_3	NA	HNO_3-0000088969	10/10/2015	1	gcs	10L made
04/23/2015	ICP-15-037	2% HNO_3	NA	HNO_3-0000099263	10/23/2015	1	gcs	500mL made
05/05/2015	ICP-15-038	5%/5%	N/A	HNO_3-0000099263 HCl-54310	11/05/2015	1	NE	2L SPLIT INTO 2-1L BOTTLES FOR SO, DILUTENT, ETC...

To Page No. ____

Witnessed & Understood by me: Jamma C Sandoly

Date 05/08/2015

Invented by:

Recorded by:

Date 05/05/2015

Project No. NA

TITLE ALS Environmental ICP Solutions/Reagents Logbook

Book No. 4535

From Page No. 54

Date	ICP Solution #	Solution Type	Primary Solution Horizon ID #	Acid Lots	Expiration Date	Recipe Page	Initials	Comments
05/21/2015	ICP-15-039	5%/5%	NA	HNO_3-000008896 9 HCl-54310	11/21/2015	1	gcs	2L split into 2-1L Bottles For SO, Dilutent, etc.
05/21/2015	ICP-15-040	5%/5%	NA	HNO_3-000008896 9 HCl-54310	11/21/2015	1	gcs	2L split into 2-1L Bottles For SO, Dilutent, etc.
05/21/2015	ICP-15-041	ScYIS	Sc-27176, Y-26858	HNO_3-000008896 9 HCl-54310	11/21/2015	1	gcs	2L made
05/21/2015	ICP-15-042	ScYIS	Sc-27176, Y-26858	HNO_3-000008896 9 HCl-54310	11/21/2015	1	gcs	2L made
05/21/2015	ICP-15-043	ScYIS	Sc-27176, Y-26858	HNO_3-000008896 9 HCl-54310	11/21/2015	1	gcs	2L made
05/21/2015	ICP-15-044	Rinse 5%/5%	NA	HNO_3-000008896 9 HCl-54310	11/21/2015	1	gcs	2L made
05/21/2015	ICP-15-045	Rinse 5%/5%	NA	HNO_3-000008896 9 HCl-54310	11/21/2015	1	gcs	2L made
05/21/2015	ICP-15-046	Rinse 5%/5%	NA	HNO_3-000009926 3 HCl-54310	11/21/2015	1	gcs	10L made
05/21/2015	ICP-15-047	Rinse 5%/5%	NA	HNO_3-000008896 9 HCl-54310	11/21/2015	1	gcs	10L made
05/21/2015	ICP-15-048	Rinse 5%/5%	NA	HNO_3-000008896 9 HCl-54310	11/21/2015	1	gcs	10L made
05/21/2015	ICP-15-049	Rinse 2% HNO_3	NA	HNO_3-000008896 9	11/21/2015	1	gcs	10L made
06/29/2015	ICP-15-050	2% HNO_3	N/A	HNO_3-000008896 9	12/29/2015	1	AE	1L MADE

To Page No. ____

Witnessed & Understood by me, | Date | Invented by: | Date

Recorded by:

TITLE ALS Environmental ~~DATACHEM LABORATORIES~~ ICP SOLUTION / REAGENTS LOGBOOK

Project No. N/A

Book No. 4535

From Page No. X

JCS 7/25/12

RECIPES

7.5% HNO_3 = TRANSFERRED SOME ASTM TYPE II H_2O TO A 2L FLASK. ADD 150ML OF HNO_3 TO THE FLASK. BRING TO VOLUME WITH MORE ASTM TYPE II H_2O. STOPPER FLASK, SHAKE TO MIX. USE FOR SO, ICB, CCB AND DILUTANT.

Sc IS = ADDED SOME WATER TO A 2L FLASK. ADD ~~150~~ 100 ML OF HNO_3 AND 50 ML OF HCl. ADD 1.2 mL OF A 10,000 µg/mL Sc STAND. BRING TO VOLUME WITH MORE ASTM TYPE II H_2O. STOPPER FLASK AND SHAKE WELL.

7.5%/1% RINSE = ADD SOME ASTM TYPE II H_2O TO A 2L FLASK. ADD 150ML OF HNO_3 + 20ML OF HCl. BRING TO VOLUME WITH MORE ASTM TYPE II H_2O. STOPPER FLASK AND SHAKE WELL.

2ppm Zn. = ADD SOME ASTM TYPE II H_2O TO A 200mL VOLUMETERIC FLASK. ADD 2mL OF HNO_3. SPIKE IN 40µl OF 10,000 µg/mL Zn. BRING TO VOLUME WITH MORE ASTM TYPE II H_2O. STOPPER AND SHAKE WELL. USE FOR TORCH ALIGNMENT.

5%/5% RINSE = ADD SOME ASTM TYPE II H_2O TO A 2L FLASK. ADD 100mL OF HNO_3 AND 100mL OF HCl TO THE FLASK. BRING TO VOLUME WITH MORE ASTM TYPE II H_2O. STOPPER FLASK AND SHAKE WELL.

Thermo Torch Alignment Solution = Add some ASTM Type II H_2O to a 250 mL flask. Add 2.5 mL of HNO_3, 7.5 µL of MeOH and 50 µL of 10,000 µg/mL Zn. Bring to volume with ASTM Type II H_2O, Stopper and shake to mix. 0.03 mL/L MeOH, 2 mg/L Zn in 1% HNO_3.

ScYIS = ADD SOME WATER TO A 2L FLASK, THEN ADD 100 mL OF HNO_3 AND 100 mL OF HCl TO THE FLASK. SPIKE IN 1.2 mL OF Sc STANDARD (10,000 µg/mL) AND 0.5 mL OF Y STANDARD (10,000 µg/mL). BRING TO VOLUME WITH MORE ASTM TYPE II H_2O. STOPPER AND SHAKE FLASK.

2% HNO_3 = Add some ASTM Type II H_2O to a 2L flask. Add 40mL of HNO_3 to the flask. Bring to volume with more ASTM Type II H_2O. Stopper flask and shake well. Use for SO, ICB, CCB and Serial Dilutions or use for Rinse.

2% ScYIS = Add some ASTM Type II H_2O to a 2L flask. Add 40mL of HNO_3 to the flask. Spike in 1.2mL of 10,000 µg/mL Sc standard and 0.5mL of 10,000 µg/mL Y standard. Bring to volume with more ASTM Type II H_2O. Stopper flask and shake well.

1% HNO_3/0.5% HCl (200.7 Dilutent) = Add some ASTM Type II H_2O to a 500 mL flask. Add 5.0 mL of HNO_3 and 2.5 mL of HCl to the flask. Bring to volume with more ASTM Type II water. Stopper flask and shake well. Use for diluting 200.7 samples.

To Page No. ____

Witnessed & Understood by me,	Date	Invented by:	Date
		Recorded by:	

STANDARD REPORT

Working Standard - ISM01.3 SA

ISM01.3 SA		Description - ISM01.3 SA
Standard: 28502	**Created By:** J. Sanchez	**Amount:** 200 mL
MFG: JCS	**Create Date:** 06/26/2015	**Expires:** 09/01/2015
MFG Lot:	**Lab Lot:** ICP-CLP	**Usable:** Yes
Part ID: ICP-10, ICP-1		

Pos.	Analyte	Name	Concentration
1	7429-90-5	Aluminum	200 ug/L
2	7440-36-0	Antimony	60 ug/L
3	7440-38-2	Arsenic	10 ug/L
4	7440-39-3	Barium	200 ug/L
5	7440-41-7	Beryllium	5 ug/L
6	7440-43-9	Cadmium	5 ug/L
7	7440-70-2	Calcium	5000 ug/L
8	7440-47-3	Chromium	10 ug/L
9	7440-48-4	Cobalt	50 ug/L
10	7440-50-8	Copper	25 ug/L
11	7439-89-6	Iron	100 ug/L
12	7439-92-1	Lead	10 ug/L
13	7439-95-4	Magnesium	5000 ug/L
14	7439-96-5	Manganese	15 ug/L
15	7440-02-0	Nickel	40 ug/L
16	7440-09-7	Potassium	5000 ug/L
17	7782-49-2	Selenium	35 ug/L
18	7440-22-4	Silver	10 ug/L
19	7440-23-5	Sodium	5000 ug/L
20	7440-28-0	Thallium	25 ug/L
21	7440-62-2	Vanadium	50 ug/L
22	7440-66-6	Zinc	60 ug/L
23	7439-98-7	Molybdenum	10 ug/L
24	7440-32-6	Titanium	25 ug/L

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
109	ASTM H2O	ASTM Type II Water	LAB 109	177.93 mL	11/07/2025
26531	HNO3	Concentrated Nitric Acid	HNO3 (88969)	10 mL	12/22/2019
27274	10x of Mo	10x of Mo stock	ICP-CLP	0.02 mL	09/01/2015
27275	100x of Ti	100x of Ti stock	ICP-CLP	0.05 mL	09/01/2015
27708	ICP-CLP-CRQL	ISM CRQL Solution	ICP-CLP	2 mL	04/10/2016
28120	HCl	concentrated hydrochloric acid	HCl (54310)	10 mL	01/23/2025

STANDARD REPORT

Working Standard - ISM01.3 SB

ISM01.3 SB	Description - ISM01.3 Standard B

Standard: 27475 **Created By:** N. Edwards **Amount:** 1000 mL
MFG: NAE **Create Date:** 03/21/2015 **Expires:** 07/01/2015
MFG Lot: **Lab Lot:** ICP-CLP **Usable:** Yes
Part ID: ICP-10, ICP-2, ICP-1

Pos.	Analyte	Name	Concentration
1	7429-90-5	Aluminum	1000 ug/L
2	7440-36-0	Antimony	200 ug/L
3	7440-38-2	Arsenic	80 ug/L
4	7440-39-3	Barium	255 ug/L
5	7440-41-7	Beryllium	80 ug/L
6	7440-43-9	Cadmium	80 ug/L
7	7440-70-2	Calcium	25000 ug/L
8	7440-47-3	Chromium	200 ug/L
9	7440-48-4	Cobalt	200 ug/L
10	7440-50-8	Copper	200 ug/L
11	7439-89-6	Iron	1000 ug/L
12	7439-92-1	Lead	200 ug/L
13	7439-95-4	Magnesium	25000 ug/L
14	7439-96-5	Manganese	200 ug/L
15	7439-98-7	Molybdenum	80 ug/L
16	7440-02-0	Nickel	200 ug/L
17	7440-09-7	Potassium	25000 ug/L
18	7782-49-2	Selenium	80 ug/L
19	7440-22-4	Silver	125 ug/L
20	7440-23-5	Sodium	25000 ug/L
21	7440-28-0	Thallium	80 ug/L
22	7440-32-6	Titanium	80 ug/L
23	7440-62-2	Vanadium	200 ug/L
24	7440-66-6	Zinc	200 ug/L

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
109	ASTM H2O	ASTM Type II Water	LAB 109	897.16 mL	11/07/2025
24656	STD-2A	ISM01.3 Standard Mix	ICP-CLP	0.04 mL	07/01/2015
24657	STD-2B	ISM01.3 Standard Mix	ICP-CLP	0.04 mL	07/01/2015
24658	STD-2C	ISM01.3 Standard Mix	ICP-CLP	0.04 mL	07/01/2015
25303	STD-1	ISM01.3 Standard	ICP-CLP	0.04 mL	10/01/2015
25304	IV-STOCK-2	ISM01.3 Standard	ICP-CLP	2.5 mL	10/01/2015
25320	Ag Stock	1,000 ug/mL Ag Stock	Ag 1,000 ug/mL	0.125 mL	08/30/2015
26531	HNO3	Concentrated Nitric Acid	HNO3 (88969)	50 mL	12/22/2019
26903	HCl	concentrated hydrochloric acid	HCl(54169)	50 mL	02/02/2016
27191	Ba Low Stock	1,000 ug/mL Ba Stock	SPEX Ba 1,000 ug/mL	0.055 mL	08/23/2015

STANDARD REPORT

Working Standard - ISM01.3 SC

ISM01.3 SC	Description - ISM01.3 Standard C

Standard: 27476 **Created By:** N. Edwards **Amount:** 1000 mL
MFG: NAE **Create Date:** 03/21/2015 **Expires:** 07/01/2015
MFG Lot: **Lab Lot:** ICP-CLP **Usable:** Yes
Part ID: ICP-2

Pos.	Analyte	Name	Concentration
1	7429-90-5	Aluminum	5000 ug/L
2	7440-36-0	Antimony	2000 ug/L
3	7440-38-2	Arsenic	800 ug/L
4	7440-39-3	Barium	2000 ug/L
5	7440-41-7	Beryllium	800 ug/L
6	7440-43-9	Cadmium	800 ug/L
7	7440-47-3	Chromium	2000 ug/L
8	7440-48-4	Cobalt	2000 ug/L
9	7440-50-8	Copper	2000 ug/L
10	7439-89-6	Iron	5000 ug/L
11	7439-92-1	Lead	2000 ug/L
12	7439-96-5	Manganese	2000 ug/L
13	7439-98-7	Molybdenum	800 ug/L
14	7440-02-0	Nickel	2000 ug/L
15	7782-49-2	Selenium	800 ug/L
16	7440-22-4	Silver	250 ug/L
17	7440-28-0	Thallium	800 ug/L
18	7440-32-6	Titanium	800 ug/L
19	7440-62-2	Vanadium	2000 ug/L
20	7440-66-6	Zinc	2000 ug/L

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
109	ASTM H2O	ASTM Type II Water	LAB 109	898.35 mL	11/07/2025
24656	STD-2A	ISM01.3 Standard Mix	ICP-CLP	0.4 mL	07/01/2015
24657	STD-2B	ISM01.3 Standard Mix	ICP-CLP	0.4 mL	07/01/2015
24658	STD-2C	ISM01.3 Standard Mix	ICP-CLP	0.4 mL	07/01/2015
25303	STD-1	ISM01.3 Standard	ICP-CLP	0.2 mL	10/01/2015
25320	Ag Stock	1,000 ug/mL Ag Stock	Ag 1,000 ug/mL	0.25 mL	08/30/2015
26531	HNO3	Concentrated Nitric Acid	HNO3 (88969)	50 mL	12/22/2019
26903	HCl	concentrated hydrochloric acid	HCl(54169)	50 mL	02/02/2016

STANDARD REPORT

Working Standard - ISM01.3 SD

ISM01.3 SD		Description - ISM01.3 Standard D
Standard: 28122	Created By: J. Sanchez	Amount: 500 mL
MFG: JCS	Create Date: 05/21/2015	Expires: 07/01/2015
MFG Lot:	Lab Lot: ICP-CLP	Usable: Yes
Part ID: ICP-10, ICP-2		

Pos.	Analyte	Name	Concentration
1	7440-36-0	Antimony	5000 ug/L
2	7440-38-2	Arsenic	2000 ug/L
3	7439-98-7	Molybdenum	2000 ug/L
4	7782-49-2	Selenium	2000 ug/L
5	7440-32-6	Titanium	2000 ug/L
6	7440-39-3	Barium	5000 ug/L
7	7440-62-2	Vanadium	5000 ug/L
8	7440-41-7	Beryllium	2000 ug/L
9	7440-43-9	Cadmium	2000 ug/L
10	7440-48-4	Cobalt	5000 ug/L
11	7440-47-3	Chromium	5000 ug/L
12	7440-50-8	Copper	5000 ug/L
13	7439-96-5	Manganese	5000 ug/L
14	7440-02-0	Nickel	5000 ug/L
15	7439-92-1	Lead	5000 ug/L
16	7440-66-6	Zinc	5000 ug/L
17	7440-28-0	Thallium	2000 ug/L
18	7429-90-5	Aluminum	50000 ug/L
19	7439-89-6	Iron	50000 ug/L
20	7440-70-2	Calcium	125000 ug/L
21	7440-09-7	Potassium	125000 ug/L
22	7439-95-4	Magnesium	125000 ug/L
23	7440-23-5	Sodium	125000 ug/L
24	7440-22-4	Silver	500 ug/L

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
109	ASTM H2O	ASTM Type II Water	LAB 109	441 mL	11/07/2025
24656	STD-2A	ISM01.3 Standard Mix	ICP-CLP	0.5 mL	07/01/2015
24657	STD-2B	ISM01.3 Standard Mix	ICP-CLP	0.5 mL	07/01/2015
24658	STD-2C	ISM01.3 Standard Mix	ICP-CLP	0.5 mL	07/01/2015
25303	STD-1	ISM01.3 Standard	ICP-CLP	1 mL	10/01/2015
25304	IV-STOCK-2	ISM01.3 Standard	ICP-CLP	6.25 mL	10/01/2015
25320	Ag Stock	1,000 ug/mL Ag Stock	Ag 1,000 ug/mL	0.25 mL	08/30/2015
27803	HNO3	Concentrated Nitric Acid	HNO3 (104117)	25 mL	04/20/2020
28120	HCl	concentrated hydrochloric acid	HCl (54310)	25 mL	01/23/2025

STANDARD REPORT

Working Standard - ISM01.3 SE

ISM01.3 SE — **Description - ISM01.3 STD E/CCV**

Standard: 28501 **Created By:** J. Sanchez **Amount:** 200 mL
MFG: JCS **Create Date:** 06/25/2015 **Expires:** 07/01/2015
MFG Lot: **Lab Lot:** ICP-CLP **Usable:** Yes
Part ID: ICP-10, ICP-2

Pos.	Analyte	Name	Concentration
1	7440-36-0	Antimony	25000 ug/L
2	7440-38-2	Arsenic	10000 ug/L
3	7439-98-7	Molybdenum	10000 ug/L
4	7782-49-2	Selenium	10000 ug/L
5	7440-32-6	Titanium	10000 ug/L
6	7440-39-3	Barium	25000 ug/L
7	7440-62-2	Vanadium	25000 ug/L
8	7440-41-7	Beryllium	10000 ug/L
9	7440-43-9	Cadmium	10000 ug/L
10	7440-48-4	Cobalt	25000 ug/L
11	7440-47-3	Chromium	25000 ug/L
12	7440-50-8	Copper	25000 ug/L
13	7439-96-5	Manganese	25000 ug/L
14	7440-02-0	Nickel	25000 ug/L
15	7439-92-1	Lead	25000 ug/L
16	7440-66-6	Zinc	25000 ug/L
17	7440-28-0	Thallium	10000 ug/L
18	7429-90-5	Aluminum	250000 ug/L
19	7439-89-6	Iron	250000 ug/L
20	7440-70-2	Calcium	250000 ug/L
21	7440-09-7	Potassium	250000 ug/L
22	7439-95-4	Magnesium	250000 ug/L
23	7440-23-5	Sodium	250000 ug/L
24	7440-22-4	Silver	1000 ug/L

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
109	ASTM H2O	ASTM Type II Water	LAB 109	169.8 mL	11/07/2025
24656	STD-2A	ISM01.3 Standard Mix	ICP-CLP	1 mL	07/01/2015
24657	STD-2B	ISM01.3 Standard Mix	ICP-CLP	1 mL	07/01/2015
24658	STD-2C	ISM01.3 Standard Mix	ICP-CLP	1 mL	07/01/2015
25303	STD-1	ISM01.3 Standard	ICP-CLP	2 mL	10/01/2015
25304	IV-STOCK-2	ISM01.3 Standard	ICP-CLP	5 mL	10/01/2015
25320	Ag Stock	1,000 ug/mL Ag Stock	Ag 1,000 ug/mL	0.2 mL	08/30/2015
26531	HNO3	Concentrated Nitric Acid	HNO3 (88969)	10 mL	12/22/2019
28120	HCl	concentrated hydrochloric acid	HCl (54310)	10 mL	01/23/2025

STANDARD REPORT

Working Standard - ISM01.3 SF

ISM01.3 SF	Description - ISM01.3 Standard F

Standard: 28123 **Created By:** J. Sanchez **Amount:** 500 mL
MFG: JCS **Create Date:** 05/21/2015 **Expires:** 07/01/2015
MFG Lot: **Lab Lot:** ICP-CLP **Usable:** Yes
Part ID: ICP-10, ICP-2

Pos.	Analyte	Name	Concentration
1	7440-36-0	Antimony	50000 ug/L
2	7440-38-2	Arsenic	20000 ug/L
3	7439-98-7	Molybdenum	20000 ug/L
4	7782-49-2	Selenium	20000 ug/L
5	7440-32-6	Titanium	20000 ug/L
6	7440-39-3	Barium	50000 ug/L
7	7440-62-2	Vanadium	50000 ug/L
8	7440-41-7	Beryllium	20000 ug/L
9	7440-43-9	Cadmium	20000 ug/L
10	7440-48-4	Cobalt	50000 ug/L
11	7440-47-3	Chromium	50000 ug/L
12	7440-50-8	Copper	50000 ug/L
13	7439-96-5	Manganese	50000 ug/L
14	7440-02-0	Nickel	50000 ug/L
15	7439-92-1	Lead	50000 ug/L
16	7440-66-6	Zinc	50000 ug/L
17	7440-28-0	Thallium	20000 ug/L
18	7440-22-4	Silver	2000 ug/L

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
109	ASTM H2O	ASTM Type II Water	LAB 109	434 mL	11/07/2025
24656	STD-2A	ISM01.3 Standard Mix	ICP-CLP	5 mL	07/01/2015
24657	STD-2B	ISM01.3 Standard Mix	ICP-CLP	5 mL	07/01/2015
24658	STD-2C	ISM01.3 Standard Mix	ICP-CLP	5 mL	07/01/2015
25320	Ag Stock	1,000 ug/mL Ag Stock	Ag 1,000 ug/mL	1 mL	08/30/2015
27803	HNO3	Concentrated Nitric Acid	HNO3 (104117)	25 mL	04/20/2020
28120	HCl	concentrated hydrochloric acid	HCl (54310)	25 mL	01/23/2025

STANDARD REPORT

Working Standard - S500000

S500000	Description - ISM01.3 Standard 500000

Standard: 27551 **Created By:** N. Edwards **Amount:** 1000 mL
MFG: NAE **Create Date:** 03/29/2015 **Expires:** 09/29/2015
MFG Lot: **Lab Lot:** ICP-CLP **Usable:** Yes
Part ID:

Pos.	Analyte	Name	Concentration
1	7429-90-5	Aluminum	500000 ug/L
2	7439-89-6	Iron	500000 ug/L
3	7440-70-2	Calcium	500000 ug/L
4	7440-09-7	Potassium	500000 ug/L
5	7439-95-4	Magnesium	500000 ug/L
6	7440-23-5	Sodium	500000 ug/L

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
109	ASTM H2O	ASTM Type II Water	LAB 109	830 mL	11/07/2025
25303	STD-1	ISM01.3 Standard	ICP-CLP	20 mL	10/01/2015
25304	IV-STOCK-2	ISM01.3 Standard	ICP-CLP	50 mL	10/01/2015
26903	HCl	concentrated hydrochloric acid	HCl(54169)	50 mL	02/02/2016
27078	HNO3	Concentrated Nitric Acid	HNO3 (99263)	50 mL	02/16/2020

STANDARD REPORT

Working Standard - ISM ICP ICV

ISM ICP ICV — **Description - ISM01.3 ICP ICV**

Standard: 27550 **Created By:** N. Edwards **Amount:** 500 mL
MFG: NAE **Create Date:** 03/29/2015 **Expires:** 09/29/2015
MFG Lot: ICV-1(0307) **Lab Lot:** ICV ICP-CLP **Usable:** Yes
Part ID: ICP-10

Pos.	Analyte	Name	Concentration
1	7429-90-5	Aluminum	2521 ug/L
2	7440-36-0	Antimony	994 ug/L
3	7440-38-2	Arsenic	999 ug/L
4	7440-39-3	Barium	497 ug/L
5	7440-41-7	Beryllium	495 ug/L
6	7440-43-9	Cadmium	496 ug/L
7	7440-70-2	Calcium	10026 ug/L
8	7440-47-3	Chromium	490 ug/L
9	7440-48-4	Cobalt	499 ug/L
10	7440-50-8	Copper	492 ug/L
11	7439-89-6	Iron	5082 ug/L
12	7439-92-1	Lead	1002 ug/L
13	7439-95-4	Magnesium	6074 ug/L
14	7439-96-5	Manganese	499 ug/L
15	7440-02-0	Nickel	503 ug/L
16	7440-09-7	Potassium	10021 ug/L
17	7782-49-2	Selenium	1029 ug/L
18	7440-22-4	Silver	501 ug/L
19	7440-23-5	Sodium	10097 ug/L
20	7440-28-0	Thallium	1028 ug/L
21	7440-62-2	Vanadium	501 ug/L
22	7440-66-6	Zinc	1025 ug/L

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
109	ASTM H2O	ASTM Type II Water	LAB 109	400 mL	11/07/2025
25735	CLPICP-ICV1	CLP-ICP/ICPMS-ICV-1	ICP-CLP	50 mL	10/21/2024
26903	HCl	concentrated hydrochloric acid	HCl(54169)	25 mL	02/02/2016
27078	HNO3	Concentrated Nitric Acid	HNO3 (99263)	25 mL	02/16/2020

STANDARD REPORT

Working Standard - ISM01.3 ICSA

ISM01.3 ICSA		Description - ISM01.3 ICP ICSA
Standard: 27474	**Created By:** N. Edwards	**Amount:** 1000 mL
MFG: NAE	**Create Date:** 03/21/2015	**Expires:** 09/21/2015
MFG Lot: ICSA(1211)	**Lab Lot:** ICP-CLP	**Usable:** Yes
Part ID: Grad Cylinder		

Pos.	Analyte	Name	Concentration
1	7429-90-5	Aluminum	254900 ug/L
2	7440-39-3	Barium	6 ug/L
3	7440-43-9	Cadmium	1 ug/L
4	7440-70-2	Calcium	244500 ug/L
5	7440-47-3	Chromium	52 ug/L
6	7440-50-8	Copper	2 ug/L
7	7439-89-6	Iron	100700 ug/L
8	7439-95-4	Magnesium	255400 ug/L
9	7439-96-5	Manganese	7 ug/L
10	7440-02-0	Nickel	2 ug/L

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
109	ASTM H2O	ASTM Type II Water	LAB 109	800 mL	11/07/2025
21455	CLPICP-ICS-A	CLP-ICP-ICS-Part A	ICP-CLP	100 mL	11/27/2023
26531	HNO3	Concentrated Nitric Acid	HNO3 (88969)	50 mL	12/22/2019
26903	HCl	concentrated hydrochloric acid	HCl(54169)	50 mL	02/02/2016

STANDARD REPORT

Working Standard - ISM ICSAB

ISM ICSAB — **Description - ISM01.3 ICSAB**

Standard: 28265 **Created By:** J. Sanchez **Amount:** 200 mL
MFG: JCS **Create Date:** 06/05/2015 **Expires:** 12/05/2015
MFG Lot: ICSAB-(1211/0710) **Lab Lot:** ICP-CLP **Usable:** Yes
Part ID: ICP-10

Pos.	Analyte	Name	Concentration
1	7429-90-5	Aluminum	246800 ug/L
2	7440-39-3	Barium	537 ug/L
3	7440-43-9	Cadmium	972 ug/L
4	7440-70-2	Calcium	234900 ug/L
5	7440-47-3	Chromium	542 ug/L
6	7440-50-8	Copper	511 ug/L
7	7439-89-6	Iron	99320 ug/L
8	7439-95-4	Magnesium	248000 ug/L
9	7439-96-5	Manganese	507 ug/L
10	7440-02-0	Nickel	954 ug/L
11	7440-36-0	Antimony	618 ug/L
12	7440-38-2	Arsenic	104 ug/L
13	7440-41-7	Beryllium	495 ug/L
14	7440-48-4	Cobalt	476 ug/L
15	7439-92-1	Lead	49 ug/L
16	7782-49-2	Selenium	46 ug/L
17	7440-22-4	Silver	201 ug/L
18	7440-28-0	Thallium	108 ug/L
19	7440-62-2	Vanadium	491 ug/L
20	7440-66-6	Zinc	952 ug/L

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
109	ASTM H2O	ASTM Type II Water	LAB 109	140 mL	11/07/2025
21455	CLPICP-ICS-A	CLP-ICP-ICS-Part A	ICP-CLP	20 mL	11/27/2023
21456	CLPICP-ICS-B	CLP-ICP-ICS-Part B	ICP-CLP	20 mL	11/27/2023
26531	HNO3	Concentrated Nitric Acid	HNO3 (88969)	10 mL	12/22/2019
28120	HCl	concentrated hydrochloric acid	HCl (54310)	10 mL	01/23/2025

STANDARD REPORT

Stock Standard - Y Stock

Y Stock		**Description - 10,000 ug/mL Y Stock**
Standard: 26858	**Created By:** P. Foote	**Amount:** 125 mL
MFG: SPEX CertiPrep	**Create Date:** 1/26/2015	**Expires:** 1/30/2016
MFG Lot: AI15-90YY	**Lab Lot:** SPEX Y 10,000 ug/mL	**Usable:** Yes
Part ID: PLY2-3Y		

Pos.	Analyte	Name	Concentration
1	7440-65-5	Yttrium	10000 ug/mL

STANDARD REPORT

Stock Standard - Sc Stock

Sc Stock			Description - 10,000 ug/mL Sc Stock
Standard: 27176	**Created By:** P. Foote		**Amount:** 125 mL
MFG: Inorganic Ventures	**Create Date:** 2/20/2015		**Expires:** 2/23/2016
MFG Lot: G2-SC02113	**Lab Lot:** IV Sc 10,000 ug/mL		**Usable:** Yes
Part ID: CGSC10-1			

Pos.	Analyte	Name	Concentration
1	7440-20-2	Scandium	10000 ug/mL

STANDARD REPORT

Constituent

Stock Standard - CLPICP-ICS-A

CLPICP-ICS-A		Description - CLP-ICP-ICS-Part A
Standard: 21455	**Created By:** J. Sanchez	**Amount:** 100 mL
MFG: QATS Laboratory	**Create Date:** 11/27/2013	**Expires:** 11/27/2023
MFG Lot: ICSA-1211	**Lab Lot:** ICP-CLP	**Usable:** Yes
Part ID:		

Pos.	Analyte	Name	Concentration
1	7429-90-5	Aluminum	2549000 ug/L
2	7440-39-3	Barium	60 ug/L
3	7440-43-9	Cadmium	10 ug/L
4	7440-70-2	Calcium	2445000 ug/L
5	7440-47-3	Chromium	520 ug/L
6	7440-50-8	Copper	20 ug/L
7	7439-89-6	Iron	1007000 ug/L
8	7439-95-4	Magnesium	2554000 ug/L
9	7439-96-5	Manganese	70 ug/L
10	7440-02-0	Nickel	20 ug/L

STANDARD REPORT

Constituent

Stock Standard - CLPICP-ICS-B

CLPICP-ICS-B		Description - CLP-ICP-ICS-Part B
Standard: 21456	**Created By:** J. Sanchez	**Amount:** 100 mL
MFG: QATS Laboratory	**Create Date:** 11/27/2013	**Expires:** 11/27/2023
MFG Lot: ICSB-0710	**Lab Lot:** ICP-CLP	**Usable:** Yes
Part ID:		

Pos.	Analyte	Name	Concentration
1	7429-90-5	Aluminum	-81000 ug/L
2	7440-36-0	Antimony	6180 ug/L
3	7440-38-2	Arsenic	1040 ug/L
4	7440-39-3	Barium	5310 ug/L
5	7440-41-7	Beryllium	4950 ug/L
6	7440-43-9	Cadmium	9710 ug/L
7	7440-70-2	Calcium	-96000 ug/L
8	7440-47-3	Chromium	4900 ug/L
9	7440-48-4	Cobalt	4760 ug/L
10	7440-50-8	Copper	5090 ug/L
11	7439-89-6	Iron	-13800 ug/L
12	7439-92-1	Lead	490 ug/L
13	7439-95-4	Magnesium	-74000 ug/L
14	7439-96-5	Manganese	5000 ug/L
15	7440-02-0	Nickel	9520 ug/L
16	7782-49-2	Selenium	460 ug/L
17	7440-22-4	Silver	2010 ug/L
18	7440-28-0	Thallium	1080 ug/L
19	7440-62-2	Vanadium	4910 ug/L
20	7440-66-6	Zinc	9520 ug/L

STANDARD REPORT

Constituent

Stock Standard - STD-2A

STD-2A	Description - ISM01.3 Standard Mix

Standard:	24656	**Created By:**	N. Edwards	**Amount:**	250 mL
MFG:	Inorganic Ventures	**Create Date:**	6/17/2014	**Expires:**	7/1/2015
MFG Lot:	G2-MEB487014	**Lab Lot:**	ICP-CLP	**Usable:**	Yes
Part ID:	ALSUT-STD-2A				

Pos.	Analyte	Name	Concentration
1	7440-36-0	Antimony	5000 ug/mL
2	7440-38-2	Arsenic	2000 ug/mL
3	7439-98-7	Molybdenum	2000 ug/mL
4	7782-49-2	Selenium	2000 ug/mL
5	7440-32-6	Titanium	2000 ug/mL

STANDARD REPORT

Constituent

Stock Standard - STD-2B

STD-2B		Description - ISM01.3 Standard Mix
Standard: 24657	**Created By:** N. Edwards	**Amount:** 250 mL
MFG: Inorganic Ventures	**Create Date:** 6/17/2014	**Expires:** 7/1/2015
MFG Lot: H2-MEB529087	**Lab Lot:** ICP-CLP	**Usable:** Yes
Part ID: ALSUT-STD-2B		

Pos.	Analyte	Name	Concentration
1	7440-39-3	Barium	5000 ug/mL
2	7440-62-2	Vanadium	5000 ug/mL
3	7440-41-7	Beryllium	2000 ug/mL
4	7440-43-9	Cadmium	2000 ug/mL

STANDARD REPORT

Constituent

Stock Standard - STD-2C

STD-2C		Description - ISM01.3 Standard Mix
Standard: 24658	**Created By:** N. Edwards	**Amount:** 250 mL
MFG: Inorganic Ventures	**Create Date:** 6/17/2014	**Expires:** 7/1/2015
MFG Lot: H2-MEB529088	**Lab Lot:** ICP-CLP	**Usable:** Yes
Part ID: ALSUT-STD-2C		

Pos.	Analyte	Name	Concentration
1	7440-48-4	Cobalt	5000 ug/mL
2	7440-47-3	Chromium	5000 ug/mL
3	7440-50-8	Copper	5000 ug/mL
4	7439-96-5	Manganese	5000 ug/mL
5	7440-02-0	Nickel	5000 ug/mL
6	7439-92-1	Lead	5000 ug/mL
7	7440-66-6	Zinc	5000 ug/mL
8	7440-28-0	Thallium	2000 ug/mL

STANDARD REPORT

Constituent

Stock Standard - STD-1

STD-1	Description - ISM01.3 Standard

Standard:	25303	**Created By:**	J. Sanchez	**Amount:**	250 mL
MFG:	Inorganic Ventures	**Create Date:**	9/22/2014	**Expires:**	10/1/2015
MFG Lot:	H2-MEB542124	**Lab Lot:**	ICP-CLP	**Usable:**	Yes
Part ID:	ALSUT-STD-1				

Pos.	Analyte	Name	Concentration
1	7429-90-5	Aluminum	25000 ug/mL
2	7439-89-6	Iron	25000 ug/mL

STANDARD REPORT

Constituent

Stock Standard - IV-STOCK-2

IV-STOCK-2		Description - ISM01.3 Standard
Standard: 25304	**Created By:** J. Sanchez	**Amount:** 500 mL
MFG: Inorganic Ventures	**Create Date:** 9/22/2014	**Expires:** 10/1/2015
MFG Lot: G2-MEB506019	**Lab Lot:** ICP-CLP	**Usable:** Yes
Part ID: P1081H		

Pos.	Analyte	Name	Concentration
1	7440-70-2	Calcium	10000 ug/mL
2	7440-09-7	Potassium	10000 ug/mL
3	7439-95-4	Magnesium	10000 ug/mL
4	7440-23-5	Sodium	10000 ug/mL

STANDARD REPORT

Constituent

Stock Standard - Ag Stock

Ag Stock	Description - 1,000 ug/mL Ag Stock

Standard:	25320	**Created By:**	P. Foote	**Amount:**	125 mL
MFG:	Spex CertiPrep	**Create Date:**	9/2/2014	**Expires:**	8/30/2015
MFG Lot:	19-13AGY	**Lab Lot:**	Ag 1,000 ug/mL	**Usable:**	Yes
Part ID:	PLAG2-2Y				

Pos.	Analyte	Name	Concentration
1	7440-22-4	Silver	1000 ug/mL

STANDARD REPORT

Constituent

Stock Standard - CLPICP-ICV1

CLPICP-ICV1	Description - CLP-ICP/ICPMS-ICV-1

Standard: 25735 **Created By:** J. Sanchez **Amount:** 100 mL
MFG: QATS Laboratory **Create Date:** 10/21/2014 **Expires:** 10/21/2024
MFG Lot: ICV1-0307 **Lab Lot:** ICP-CLP **Usable:** Yes
Part ID:

Pos.	Analyte	Name	Concentration
1	7429-90-5	Aluminum	25210 ug/L
2	7440-36-0	Antimony	9940 ug/L
3	7440-38-2	Arsenic	9990 ug/L
4	7440-39-3	Barium	4970 ug/L
5	7440-41-7	Beryllium	4950 ug/L
6	7440-43-9	Cadmium	4960 ug/L
7	7440-70-2	Calcium	100260 ug/L
8	7440-47-3	Chromium	4900 ug/L
9	7440-48-4	Cobalt	4990 ug/L
10	7440-50-8	Copper	4920 ug/L
11	7439-89-6	Iron	50820 ug/L
12	7439-92-1	Lead	10020 ug/L
13	7439-95-4	Magnesium	60740 ug/L
14	7439-96-5	Manganese	4990 ug/L
15	7440-02-0	Nickel	5030 ug/L
16	7440-09-7	Potassium	100210 ug/L
17	7782-49-2	Selenium	10290 ug/L
18	7440-22-4	Silver	5010 ug/L
19	7440-23-5	Sodium	100970 ug/L
20	7440-28-0	Thallium	10280 ug/L
21	7440-62-2	Vanadium	5010 ug/L
22	7440-66-6	Zinc	10250 ug/L

STANDARD REPORT

Constituent

Stock Standard - Ti Stock

Ti Stock	Description - 10,000 ug/mL Ti Stock

Standard:	26855	**Created By:**	P. Foote	**Amount:**	125 mL
MFG:	SPEX CertiPrep	**Create Date:**	1/26/2015	**Expires:**	1/30/2016
MFG Lot:	AN15-189TIY	**Lab Lot:**	SPEX Ti 10,000 ug/mL	**Usable:**	Yes
Part ID:	PLTI9-3Y				

Pos.	Analyte	Name	Concentration
1	7440-32-6	Titanium	10000 ug/mL

STANDARD REPORT

Constituent

Stock Standard - Ba Low Stock

Ba Low Stock			Description - 1,000 ug/mL Ba Stock
Standard: 27191	**Created By:** P. Foote		**Amount:** 30 mL
MFG: SPEX CertiPrep	**Create Date:** 2/23/2015		**Expires:** 8/23/2015
MFG Lot: 20-183BAM	**Lab Lot:** SPEX Ba 1,000 ug/mL		**Usable:** Yes
Part ID: PLBA2-2M			

Pos.	Analyte	Name	Concentration
1	7440-39-3	Barium	1000 ug/mL

STANDARD REPORT

Constituent

Stock Standard - Mo Low Stock

Mo Low Stock			Description - 1,000 ug/mL Mo Stock
Standard: 27204	**Created By:** P. Foote		**Amount:** 30 mL
MFG: SPEX CertiPrep	**Create Date:** 2/23/2015		**Expires:** 2/28/2016
MFG Lot: 20-92MOM	**Lab Lot:** SPEX Mo 1,000 ug/mL		**Usable:** Yes
Part ID: PLMO9-2M			

Pos.	Analyte	Name	Concentration
1	7439-98-7	Molybdenum	1000 ug/mL

STANDARD REPORT

Constituent

Working Standard - 10x of Mo

10x of Mo	Description - 10x of Mo stock

Standard: 27274 **Created By:** J. Sanchez **Amount:** 10 mL
MFG: JCS **Create Date:** 03/01/2015 **Expires:** 09/01/2015
MFG Lot: **Lab Lot:** ICP-CLP **Usable:** Yes
Part ID: ICP-10, ICP-2

Pos.	Analyte	Name	Concentration
1	7439-98-7	Molybdenum	100000 ug/L

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
109	ASTM H2O	ASTM Type II Water	LAB 109	8.8 mL	11/07/2025
26531	HNO3	Concentrated Nitric Acid	HNO3 (88969)	0.2 mL	12/22/2019
27204	Mo Low Stock	1,000 ug/mL Mo Stock	SPEX Mo 1,000 ug/mL	1 mL	02/28/2016

STANDARD REPORT

Constituent

Working Standard - 100x of Ti

100x of Ti	Description - 100x of Ti stock

Standard: 27275 **Created By:** J. Sanchez **Amount:** 10 mL
MFG: JCS **Create Date:** 03/01/2015 **Expires:** 09/01/2015
MFG Lot: **Lab Lot:** ICP-CLP **Usable:** Yes
Part ID: ICP-10, ICP-1

Pos.	Analyte	Name	Concentration
1	7440-32-6	Titanium	100000 ug/L

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
109	ASTM H2O	ASTM Type II Water	LAB 109	9.7 mL	11/07/2025
26531	HNO3	Concentrated Nitric Acid	HNO3 (88969)	0.2 mL	12/22/2019
26855	Ti Stock	10,000 ug/mL Ti Stock	SPEX Ti 10,000 ug/mL	0.1 mL	01/30/2016

STANDARD REPORT

Constituent

Stock Standard - ICP-CLP-CRQL

ICP-CLP-CRQL		Description - ISM CRQL Solution
Standard: 27708	**Created By:** S. Stewart	**Amount:** 125 mL
MFG: Inorganic Ventures	**Create Date:** 4/10/2015	**Expires:** 4/10/2016
MFG Lot: J2-MEB563030	**Lab Lot:** ICP-CLP	**Usable:** Yes
Part ID: CLP-AES-CRQL-2		

Pos.	Analyte	Name	Concentration
1	7429-90-5	Aluminum	20 ug/mL
2	7440-36-0	Antimony	6 ug/mL
3	7440-38-2	Arsenic	1 ug/mL
4	7440-39-3	Barium	20 ug/mL
5	7440-41-7	Beryllium	0.5 ug/mL
6	7440-43-9	Cadmium	0.5 ug/mL
7	7440-70-2	Calcium	500 ug/mL
8	7440-47-3	Chromium	1 ug/mL
9	7440-48-4	Cobalt	5 ug/mL
10	7440-50-8	Copper	2.5 ug/mL
11	7439-89-6	Iron	10 ug/mL
12	7439-92-1	Lead	1 ug/mL
13	7439-95-4	Magnesium	500 ug/mL
14	7439-96-5	Manganese	1.5 ug/mL
15	7440-02-0	Nickel	4 ug/mL
16	7440-09-7	Potassium	500 ug/mL
17	7782-49-2	Selenium	3.5 ug/mL
18	7440-22-4	Silver	1 ug/mL
19	7440-23-5	Sodium	500 ug/mL
20	7440-28-0	Thallium	2.5 ug/mL
21	7440-62-2	Vanadium	5 ug/mL
22	7440-66-6	Zinc	6 ug/mL

STANDARD REPORT

Constituent

Solvent Standard - ASTM H2O

ASTM H2O			Description - ASTM Type II Water
Standard: 109	**Created By:** ALS Support (Lims)		**Amount:** 1000 L
MFG: DCL In House	**Create Date:** 10/6/2005		**Expires:** 11/7/2025
MFG Lot:	**Lab Lot:** LAB 109		**Usable:** Yes
Part ID:			

Pos.	Analyte	Name	Concentration
Solvent - Analyte(s) not applicable			

STANDARD REPORT

Constituent

Solvent Standard - HNO3

HNO3	Description - Concentrated Nitric Acid

Standard:	26531	**Created By:**	C. Hansen	**Amount:**	2 L
MFG:	JT Baker	**Create Date:**	12/22/2014	**Expires:**	12/22/2019
MFG Lot:	0000088969	**Lab Lot:**	HNO3 (88969)	**Usable:**	Yes
Part ID:					

Pos.	Analyte	Name	Concentration
Solvent - Analyte(s) not applicable			

STANDARD REPORT

Constituent

Solvent Standard - HCl

HCl			Description - concentrated hydrochloric acid
Standard: 26903	**Created By:** S. Stewart		**Amount:** 2 L
MFG: EMD	**Create Date:** 2/2/2015		**Expires:** 2/2/2016
MFG Lot: 54169	**Lab Lot:** HCl(54169)		**Usable:** Yes
Part ID:			

Pos.	Analyte	Name	Concentration
Solvent - Analyte(s) not applicable			

STANDARD REPORT

Constituent

Solvent Standard - HNO3

HNO3	Description - Concentrated Nitric Acid

Standard:	27078	**Created By:**	C. Hansen	**Amount:**	2 L
MFG:	JT Baker	**Create Date:**	2/16/2015	**Expires:**	2/16/2020
MFG Lot:	0000099263	**Lab Lot:**	HNO3 (99263)	**Usable:**	Yes
Part ID:					

Pos.	Analyte	Name	Concentration
Solvent - Analyte(s) not applicable			

STANDARD REPORT

Constituent

Solvent Standard - HNO3

HNO3			Description - Concentrated Nitric Acid
Standard: 27803	**Created By:** C. Hansen		**Amount:** 2 L
MFG: JT Baker	**Create Date:** 4/20/2015		**Expires:** 4/20/2020
MFG Lot: 0000104117	**Lab Lot:** HNO3 (104117)		**Usable:** Yes
Part ID:			

Pos.	Analyte	Name	Concentration
Solvent - Analyte(s) not applicable			

STANDARD REPORT

Constituent

Solvent Standard - HCl

HCl	Description - concentrated hydrochloric acid

Standard:	28120	**Created By:**	J. Sanchez	**Amount:**	2 L
MFG:	EMD	**Create Date:**	1/23/2015	**Expires:**	1/23/2025
MFG Lot:	54310	**Lab Lot:**	HCl (54310)	**Usable:**	Yes
Part ID:					

Pos.	Analyte	Name	Concentration
Solvent - Analyte(s) not applicable			

ICP-MS ISM01.3 Soil

Run # MS215065

Workorder ID	Sample #'s	Analytes	Prep Batch/HBN #	Prep Date/Time	Analysis Batch/HBN #	Account #
1516423	MF9K15-17, 19-23, 25-29	See Below #1 (Soil)	EMS/4155 151207	06/26/2015 10:30	EMS/4171 151526	8201
1516424	MF9K02-14	See Below #1 (Soil)	EMS/4156 151208	06/26/2015 10:30	EMS/4172 151527	8201

#1 = 9Be, 51V, 52Cr, 59Co, 60Ni, 63Cu, 66Zn, 75As, 82Se, 107Ag, 111Cd, 121Sb, 137Ba, 205Tl, 208Pb

Soil Conversion Factor : (ug/L)(0.1 L/1.0 g or sample wt.)(5x dil.)= 0.5 ug/g sample weight

CALIBRATION AND QC STANDARDS UTILIZED:

	ID #	Book/Page
S0 ICB/CCB (1% HNO_3)	MS-15-120	4184/98
S	1000X of 23704	Horizon
S10	5X of 28396	Horizon
S50	28396	Horizon
S200	28397	Horizon
S500	28398	Horizon
S2500	28399	Horizon
S5000	28400	Horizon
S50000	2X of 28401	Horizon
S100000	28401	Horizon
ICV	28402	Horizon
ICSA	28403	Horizon
ICSAB	28404	Horizon
CCV	28405	Horizon
Internal Standards	MS-15-067 (#24864)	4184/96
Rinse	MS-15-121	4184/98

SDG: MF9K15
SDG: MF9K02
CASE: 45299
Prep Method: 3050B
Analysis Method: ISM01.3
Analysis Date: 06/29/2015
Instrument ID: ICPM02
Results File: MS215065
Analyst: John Kershisnik

Scanning Mode: Peak Jumping
Sweeps: 40
Channels per Mass: 1
Acquisition Duration: 36287
Channel Spacing: 0.02
Replicates: 5

Instrument Parameters:

Major		Minor		Global	
Extraction:	-149	Lens 2:	-27.5	Standard Resolution:	125
Lens 1:	4.7	Lens 3:	-115.3	High Resolution:	125
Focus:	26.9	Forward Power:	1404	Analogue Detector:	1951
D1:	-32.9	Horizontal:	79	PC Detector:	3225
Pole Bias:	0.0	Vertical:	467		
Hexapole Bias:	-5.0	D2:	-160		
Nebuliser:	0.80	DA:	-80.0		
Sample Depth:	130	Cool:	13.0		
		Auxiliary:	0.90		

Comments: S was prepared by taking 50 µL of 23704 (Horizon) and adding 0.5 mL conc. HNO3 and bringing to 50 mL final volume with ASTM Type II water.
S10 was prepared by taking 8.0 mL of S0, MS-15-120 (4184/98) and adding 2.0 mL of S03, **28396** (Horizon), and mixing in a 14 mL Falcon tube.
S50000 was prepared by taking 4.0 mL of S0, MS-15-120 (4184/98) and adding 4.0 mL of S09, **28401** (Horizon), and mixing in a 14 mL Falcon tube.

A Cross Calibration was performed using solution MS-15-028 (4184/95), (Horizon #**25397**), before the performance report.
A Performance report was done to tune the instrument using "CLP" and solution MS-15-027 (4184/95), (Horizon #**25851**), before calibration.

Dilutions: Soils samples were diluted 5x prior to analysis to bring acid concentration down by mixing 2 mL of sample with 8 mL of S0, MS-15-120 (4184/98).
Serial dilution done by pipetting 2 mL of sample MF9K26 into 8 mL of MS-15-120 (4184/98) into a polypropylene tube, capping and shaking to mix.
Serial dilution done by pipetting 2 mL of sample MF9K07 into 8 mL of MS-15-120 (4184/98) into a polypropylene tube, capping and shaking to mix.

Post digestion spike for Sb: spiked 10 mL of sample MF9K26 with 100 µl of 2 µg/mL Sb, (Horizon #**23704**), for a target of 20 µg/L.
Post digestion spike for Sb: spiked 10 mL of sample MF9K07 with 100 µl of 2 µg/mL Sb, (Horizon #**23704**), for a target of 20 µg/L.

Project No. NA

TITLE ALS Laboratory - ICPM02 Instrument LOGBOOK

Book No. 4183

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DATE	Time ON	Time OFF	TOTAL Time	method	Matrix	Acct.#	W.O. IDs / Comments	Run#	# of Samples	Init.
05/11/2015	13:50 15:22	Tune 17:38	— 136 min	ISM02.2	SOIL WATER	8201	CLP Tune Passed MX1R04, MX1R08	MS215043	2	JK
↓	15:22	18:31	189 min	6020	SOLID	8001	1511734 SALT	↓	2	JK
05/15/2015	09:21 10:45	Tune 13:33	— 188 min	6020	Bulk Liquid	1101	6020 Tune Passed 1513185, 8, 9, 90, 1, 2, 3, 168, 176, 1513432	MS215044	11	KB
05/18/2015	10:09 12:07	Tune 14:31	— 144 min	6020	Bulk	1101	6020 Tune Passed 1513469, 72, 73, 74, 1513527, 806	MS215045	7	KB
05/19/2015	11:09 11:44	Tune 14:52	— 188 min	6020	Bulk	1101	6020 Tune Passed 1513439, 1513268, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82,	MS215046	20	KB
↓	↓	↓	↓	↓	↓	↓	1513428, 29, 30, 31, 33, 34, 37, 38	↓	↓	↓
05/20/2015	10:04 10:41	Tune 14:18	— 217 min	6020	Bulk Liquid	1101	1513549, 57, 59, 60, 61, 64, 69, 71, 74, 75, 925, 26, 7, 8, 9,	MS215047	18	KB
↓	↓	↓	↓	↓	↓	↓	1513869, 1514021, 27	↓	↓	↓
05/22/2015	08:34 09:07	Tune 13:52	— 291 min	ISM01.3	SOIL	8201	CLP Tune Passed ISM01.3 SOIL MDLs	MS215048	28	JK
05/27/2015	13:00 13:28	Tune 15:26	— 118 min	6020	WATER	8001	6020 Tune Passed (Cd .25) 1513204	MS215049	4	JK
05/27/2015	16:06 17:23	Tune 19:39	— 136 min	ISM02.2	SOIL WATER	8201	CLP Tune Passed MX1549, MX1553	MS215050	2	JK
↓	17:23	20:14	171 min	ISM01.3	WATER	8201	(Bridge) 1513993	↓	1	JK
05/28/2015	11:40	Tune	—	6020	SOIL	8001	6020 Tune Passed	MS215051	20	JK
↓	12:14	15:37	203 min	↓	↓	↓	(LVL4) 1513332	↓	↓	↓
05/29/2015	12:17 13:13	Tune 18:36	— 323 min	6020	SOIL	8001	6020 Tune Passed (LVL4) 1513462	MS215052	29	JK
06/03/2015	09:39 10:49	Tune 13:50	— 181 min	6020	Water	8001	6020 Tune Passed 1514502, 1515220, 1513947	MS215053	8	KB
06/05/2015	09:41 10:54	Tune 13:56	— 182 min	6020	DS Bulk	1101	1515020, 1, 2, 4, 5, 1515413, 5, 9, 20, 3, 5, 31, 2, 40, 51, 53, 54	MS215054	17	KB & PAF
06/09/2015	09:28 10:01	Tune 16:15	— 374 min	ISM01.3 200.8	Soil Water	8201 8001	WO 1514325 MF9L76	~~MS215055~~ ~~MS215055~~ KB 6/11/2015	12	KB
06/09/2015	10:01 09:11	16:15 Tune	— —	6020	Bulk Bulk	1101	1515412, 1515676, 1515525 6020 Tune Passed	MS215055	6	KB
06/11/2015	09:25 12:33	13:48 Tune	203 min —	6020	GW	7001	1514650, 1516001 CLP Tune Passed	MS215056	20	KB
06/16/2015	13:25	18:03	278 min	ISM01.3	SOIL	8201	W.O. 1515388 MF9L98	MS215057	25	JK
↓	↓	↓	↓	↓	↓	↓	W.O. 1515562 MF9M36	↓	↓	↓
06/19/2015	14:02 14:32	Tune 19:32	— 300 min	ISM01.3	SOIL	8201	CLP Tune Passed W.O. 1515559 MF9M21	MS215058	20	JK
↓	↓	↓	↓	↓	↓	↓	W.O. 1515392, 1515633 MF9M15	↓	13	JK
06/18/2015	16:48 17:13	Tune 18:06	— 53 min	ISM01.3	SOIL	8201	CLP Tune Passed W.O. 1515388 (Sen dil.-Zn) MF9L98	MS215059	1	JK
06/22/2015	Tune 20:40	16:28 23:56	— 196 min	ISM01.3	SOIL	8201	CLP Tune Passed W.O. 1515632 MF9M48	MS215060	20	JK
06/23/2015	Tune 13:28	10:46 15:27	— 120 min	6020	Water	8001	6020 Tune Passed 1516018	MS215061	1	KB
06/23/2015	17:40 20:07	Tune 23:27	— 200 min	ISM01.3	SOIL	8201	CLP Tune Passed W.O. 1515745 MF9K00	MS215062	19	JK
06/26/2015	09:43 10:10	Tune 13:40	— 210 min	ISM02.2	WATER	8201	CLP Tune Passed W.O. 1516037 MH0AA0	MS215063	7	JK
06/28/2015	16:35 17:24	Tune 19:28	— 124 min	ISM02.2	WATER	8201	CLP Tune Passed W.O. 1517713 MC0G32	MS215064	4	JK
06/29/2015	14:25 14:50	Tune 19:07	— 257 min	ISM01.3	SOIL	8201	CLP Tune Passed W.O. 1516424 MF9K02	MS215065	13	JK
↓	↓	↓	↓	↓	↓	↓	W.O. 1516423 MF9K15	↓	13	JK

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Witnessed & Understood by me, | Date | Invented by | Date

Recorded by

ALS Laboratory
TITLE ~~DATACHEM LABORATORIES~~ - ICP-MS SOLUTIONS LOGBOOK.
KB 02/03/11

Project No. N/A
Book No. 4184

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RECIPES.

CLP ~~5.3~~CRI 2/23/11 = USE "CLP-MS-CRQL-2" PRIMARY CONTAINING 10 µg/mL Ba; 5 µg/mL Se; 2 µg/mL Sb, Cr, Cu, Zn; 1 µg/mL Ag, As, Be, Cd, Co, Mn, Pb, Ni, Tl, V. SPIKE 0.05 mL TO A 50 mL TEFLON CLASS A FLASK, CONTAINING SOME ASTM TYPE II H_2O WITH 0.5 mL OF HNO_3. BRING TO VOLUME WITH ASTM TYPE II H_2O. SEAL + SHAKE FLASK.
FINAL TARGETS: 10 µg/L Ba, 5 µg/L Se; 2 µg/L Sb, Cr, Cu, Zn; 1 µg/L Ag, As, Be, Cd, Co, Mn, Pb, Ni, Tl, V in 1% HNO_3

VARIAN TUNE = SPIKE 0.5 mL OF "VAR-TS-MS" PRIMARY CONTAINING 10 µg/mL Ba, Be, Ce, Co, In, Pb, Mg, Tl, Th AND 0.5 mL OF HNO_3 TO A 50 mL FLASK CONTAINING SOME ASTM TYPE II H_2O. BRING TO VOLUME WITH ASTM TYPE II H_2O. SEAL + SHAKE.
FINAL TARGETS: 100 µg/L Ba, Be, Ce, Co, In, Pb, Mg, Tl, Th in 1% HNO_3.

6020 TUNE = SPIKE 0.5 mL OF "6020TS" PRIMARY CONTAINING 10 µg/mL Co, In, Li, Tl AND 0.5 mL OF HNO_3 TO A 50 mL FLASK CONTAINING SOME ASTM TYPE II H_2O. BRING TO VOLUME WITH ASTM TYPE II H_2O. SEAL + SHAKE.
FINAL TARGETS: 100 µg/L Co, In, Li, Tl in 1% HNO_3.

TUNE A = SPIKE ~~0.5~~ 0.05 mL OF "TUNE A" PRIMARY, CONTAINING 10 µg/mL OF Li, Be, Co, Ni, In, Ba, Ce, Pb, U + 100 µg/mL OF As, Se, AND 0.5 mL OF HNO_3 TO A 50 mL CONTAINING SOME ASTM TYPE II H_2O. BRING TO VOLUME WITH ASTM TYPE II H_2O. SEAL + SHAKE. NE 4/13/04
FINAL TARGETS: 10 µg/L Li, Be, Co, Ni, In, Ba, Be, Ce, Pb, U; 100 µg/L As, Se.

TUNE B = SPIKE 0.5 mL OF "TUNE B" PRIMARY, CONTAINING 100 µg/mL Be; 50 µg/mL Li; 25 µg/mL Mg, Se; 20 µg/mL Co; 10 µg/mL Y, In, Ce, Tl; 5 µg/mL Tb, U, AND 0.5 mL OF HNO_3 TO A 50 mL FLASK. BRING TO VOLUME. SEAL + SHAKE.
FINAL TARGETS: 1000 µg/L Be; 500 µg/L Li; 250 µg/L Mg, Sc; 200 µg/L Co; 100 µg/L Y, In, Ce, Tl; 50 µg/L Tb, U in 1% HNO_3.

VAR IS = SPIKE 40 mL OF "6020ISS" PRIMARY, CONTAINING 10 µg/mL Bi, Ho, In, ^{6}Li, Rh, Sc, Tb, Y AND 20 mL OF HNO_3 TO A 2L CONTAINER CONTAINING SOME ASTM TYPE II H_2O. BRING TO VOLUME. SEAL + SHAKE.
FINAL TARGETS: 200 µg/L Bi, Ho, In, ^{6}Li, Rh, Sc, Tb, Y in 1% HNO_3.

THERMO IS = SPIKE 4 mL OF "THERMO IS MIX" PRIMARY, CONTAINING 100 mg/L ^{6}Li, Sc; 20 mg/L Ga, Y, In, Tb, Bi AND 20 mL OF HNO_3 TO A 2L CONTAINER CONTAINING SOM ASTM TYPE II H_2O. BRING TO VOLUME. SEAL + SHAKE.
FINAL TARGETS: 200 µg/L ^{6}Li, Sc; 40 µg/L Ga, Y, In, Tb, Bi in 1% HNO_3.

2%/0.05% RINSE = ADD ~~20~~ 40 mL OF HNO_3 AND 1 mL OF HCl or 2 mL OF 1:1 HCl TO A 2L CONTAINER. BRING TO VOLUME, SEAL + SHAKE. NE 4/13/04
FINAL TARGETS: 2% HNO_3/0.05% HCl

5%/1% = ADD 100 mL OF HNO_3 AND 20 mL OF HCl TO A 2L CONTAINER. BRING TO VOLUME. SEAL + SHAKE.
FINAL TARGETS: 5% HNO_3/1% HCl.

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Witnessed & Understood by me,	Date	Invented by	Date
Kristie Bettrin	01/24/05	Recorded by [signature]	01/24/05

TITLE ALS Laboratory ~~DATACHEM LABORATORIES~~ - ICP-MS SOLUTIONS LOGBOOK.
KB 02/03/11

Project No. N/A
Book No. 4184

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RECIPES

THERMO 6020 ICSA = ADD 1mL OF ICSA PRIMARY TO 9mL OF 1% HNO_3 + mix.

THERMO 6020 ICSAB = ADD 1mL OF ICSA PRIMARY, 0.1mL OF ICSAB PRIMARY TO 8.9 mL OF 1% HNO_3 + mix.

X-CAL = SPIKE 1.25 mL OF "X-CAL" PRIMARY CONSISTING OF Ag, Al, As, Ba, Be, Bi, Ca, Cd, Co, Cr, Cs, Cu, Fe, Ga, In, K, Li, Mg, Mn, Na, Ni, Pb, Rb, Se, Sr, Tl, U, V, Zn AT 10 mg/L AND 0.5 mL OF HNO_3 TO A 50 mL FLASK CONTAINING SOME ASTM TYPE II H_2O. BRING TO VOLUME, STOPPER + SHAKE. ALL MASSES AT 250 mg/L AT FINAL.

1% HNO_3 = ADD 10 mL OF HNO_3 TO A 1L FLASK CONTAINING SOME ASTM TYPE II H_2O. BRING TO VOLUME WITH MORE ASTM TYPE II H_2O. SEAL + SHAKE. USED FOR ~~S~~O, ICB, CCB + DILUTIONS.

1:4 HCl = Add 200 mL HCl to 1 L container with some ASTM Type II H_2O. Bring to volume with more ASTM Type II H_2O. Seal & Shake. Used for sample preparation, soils.

1:1 HCl = Add 500 mL ASTM Type II H_2O to 1L container. Add 500 mL Hcl to container, cap and mix by shaking. Used for sample preparation.

1:1 HNO_3 = Add 500 mL ASTM Type II H_2O to 1 L container. Add 500 mL HNO_3 to container, seal and shake to mix. Used for sample preparation.

KB 2/16/06
2% HNO_3 with Au Add 20 mL of HNO_3 to 1L container with some ASTM Type II H_2O in it. Add 1mL of 1:1 HCl and 10 mL of 100µg/mL Au. Bring to 1L volume, cap & shake. Use for Hg analysis

~~S~~O-Urine = To a 500 mL volumetric flask containing ~250 mL of ASTM Type II Water add 50 mL of UriSub and 5 mL of concentrated nitric acid. Dilute to volume with ASTM Type II water, stopper and mix, transfer to teflon bottles for storage.

CLP KB 2/23/11
~~5.4~~ CRI: Use "CLP-MS-CRQL-3" primary containing 10µg/mL Ba; 5µg/mL Se, V; 2µg/mL Cr3, Cu, Sb, Zn; 1µg/mL Ag, As, Be, Cd, Co, Mn, Ni, Pb, Tl. Spike 0.05 mL to a 50 mL Teflon class A flask, containing some ASTM Type II H_2O with 0.5mL of HNO_3. Bring to volume with ASTM Type II H_2O, Seal & shake. Final Targets: 10µg/L Ba; 5µg/L Se, V; 2µg/L Cr3, Cu, Sb, Zn; 1µg/L Ag, As, Be, Cd, Co, Mn, Ni, Pb, Tl.

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Witnessed & Understood by me,	Date	Invented by	Date
		Recorded by	

Project No. NA

TITLE ALS-SLC ICP-MS solution Logbook

Book No. 4184

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Date	ICP-MS Solution #	Solution Type	Primary Solution ID # (Horizon)	Recipe Page	Expiration Date	Acid Lots	Comments	Init.
12/29/2014	MS-14-218	1% HNO_3 NO In	NA	2	06/29/2015	HNO_3-1213120	NA	KB
12/29/2014	MS-14-219	Agilent ISS	22947	NA	04/01/2015	HNO_3-1213120	4mL/50mL in 1% HNO_3	KB
01/02/2015	MS-15-001	1:4 HCl	NA	2	07/02/2015	HCl-4013050	NA	KB
01/05/2015	MS-15-002	Agilent Tune	25850	NA	07/05/2015	HNO_3-1213120	1/5/15 KB 25mL/~~50mL~~ 250 mL in 1% HNO_3	KB
01/05/2015	MS-15-003	6020 Tune	25852	1	07/05/2015	HNO_3-1213120	NA	KB
01/05/2015	MS-15-004	Rinse 1%-0.5%	NA	NA	07/05/2015	HNO_3-1213120 HCl-4213110	10mL HNO_3/5mL HCl to 1L	KB
01/06/2015	MS-15-005	Agilent ISS	24864	NA	07/06/2015	HNO_3-1213120	4mL/50mL in 1% HNO_3	KB
01/12/2015	MS-15-006	1% HNO_3	NA	2	07/12/2015	HNO_3-1213120	NA	KB
01/14/2015	MS-15-007	Agilent ISS	24864	NA	07/14/2015	HNO_3-1213120	4mL/50mL in 1% HNO_3	KB
01/16/2015	MS-15-008	Rinse 1%-0.5%	NA	NA	07/16/2015	HNO_3-1213120 HCl-4213110	10mL HNO_3/5mL HCl to 1L	KB
01/19/2015	MS-15-009	Rinse 2%-0.05%	NA	1	07/19/2015	HNO_3-1213120 HCl-4213110	4L	JK
01/19/2015	MS-15-010	1% HNO_3	NA	2	07/19/2015	HNO_3-1213120	NA	JK
01/20/2015	MS-15-011	Agilent ISS	24864	NA	07/20/2015	HNO_3-1213120	4mL/50mL in 1% HNO_3	KB
01/22/2015	MS-15-012	1% HNO_3	NA	2	07/22/2015	HNO_3-1213120	NA	KB
01/22/2015	MS-15-013	Agilent ISS	24864	NA	07/22/2015	HNO_3-1213120	4mL/50mL in 1% HNO_3	KB
01/27/2015	MS-15-014 KB 1/27/15	Rinse ~~2%-0.1%~~ 0.5%	NA	NA	07/27/2015	HNO_3-1213120 HCl-4213110	10mL HNO_3/5mL HCl to 1L	KB
01/27/2015	MS-15-015	Agilent ISS	24864	NA	07/27/2015	HNO_3-1213120	4mL/50mL in 1% HNO_3	KB
01/27/2015	MS-15-016	1% HNO_3	NA	2	07/27/2015	HNO_3-1213120	NA	KB
01/28/2015	MS-15-017	1:1 HNO_3	NA	2	07/28/2015	HNO_3-1213120	NA	KB
01/30/2015	MS-15-018	6020 Tune	25852	1	07/30/2015	HNO_3-1213120	NA	KB
02/02/2015	MS-15-019	1:4 HCl	NA	2	08/02/2015	HCl-4213110	NA	KB
02/02/2015	MS-15-020	Agilent ISS	24864	NA	08/02/2015	HNO_3-1213120	4mL/50mL in 1% HNO_3	KB
02/04/2015	MS-15-021	1:19 HNO_3	NA	NA	08/04/2015	HNO_3-1213120	50mL HNO_3/1L	KB
02/05/2015	MS-15-022	1% HNO_3	NA	2	08/05/2015	HNO_3-1213120	NA	KB
02/06/2015	MS-15-023	Rinse 1%-0.5%	NA	NA	08/06/2015	HNO_3-1213120 HCl-4213110	10mL HNO_3/5mL HCl to 1L	KB
02/06/2015	MS-15-024	Agilent ISS	24864	NA	08/06/2015	HNO_3-1213120 ~~HCl-4213110~~	4mL/50mL in 1% HNO_3	KB
02/08/2015	MS-15-025	1% HNO_3	NA	2	08/08/2015	HNO_3-1213120	JK 02/08/15 NA	JK
02/08/2015	MS-15-026	Rinse 2%-0.05%	NA	1	08/08/2015	HCl-4213110 HNO_3-1213120	4L	JK
02/08/2015	MS-15-027	Var Tune	25851	1	08/08/2015	HNO_3-1213120	250 mL	JK
02/08/2015	MS-15-028	X-Cal	25397	1	08/08/2015	HNO_3-1213120	200 mL	JK
02/09/2015	MS-15-029	1:1 HNO_3	NA	2	08/09/2015	HNO_3-1213120	NA	JK
02/10/2015	MS-15-030	Agilent ISS	24864	NA	08/10/2015	HNO_3-1213120	4mL/50mL in 1% HNO_3	KB
02/12/2015	MS-15-031	Agilent ISS	KB 2/12/15 NA 24864	NA	08/12/2015	HNO_3-1213120	4mL/50mL in 1% HNO_3	KB
02/12/2015	MS-15-032	1% HNO_3	NA	2	08/12/2015	HNO_3-1213120	NA	KB
02/16/2015	MS-15-033	Agilent ISS	24864	NA	08/16/2015	HNO_3-1213120	4mL/50mL in 1% HNO_3	KB
02/16/2015	MS-15-034	Rinse 1%-0.5%	NA	NA	08/16/2015	HNO_3-1213120 HCl-4213110	10mL HNO_3/5mL HCl to 1L	KB

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Witnessed & Understood by me, | Date | Invented by | Date

Recorded by

Project No. NA

TITLE ALS-SLC ICP-ms solution Logbook

Book No. 4184

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Date	ICP-ms Solution#	Solution Type	Primary Solution ID# (Horizon)	Recipe Page	Expiration Date	Acid Lot	Comments	Inst.
02/19/2015	MS-15-035	1:4 HCl	NA	2	08/19/2015	HCl-4213110	NA	KB
02/19/2015	MS-15-036	Agilent ISS	24864	NA	08/19/2015	HNO_3-1213120	4mL/50mL in 1% HNO_3	KB
02/19/2015	MS-15-037	1% HNO_3 Rinse	NA	2	08/19/2015	HNO_3-1213120 ~~-13~~ KB 2/19/15	NA	KB
02/23/2015	MS-15-038	1%-0.5%	NA	NA	08/23/2015	HNO_3-1213120 HCl-4213110	10mL HNO_3/5mL HCl to 1L	KB
02/23/2015	MS-15-039	Agilent ISS	24864	NA	08/23/2015	HNO_3-1213120	4mL/50mL in 1% HNO_3	KB
02/25/2015	MS-15-040	1:1 HNO_3	NA	2	08/25/2015	HNO_3-1213120	NA	JK
02/25/2015	MS-15-041	VAR ISS	24864	1	08/25/2015	HNO_3-1213120	4L	JK
02/25/2015	MS-15-042 1% HNO_3	1% HNO_3	NA	2	08/25/2015	HNO_3-1213120	NA	JK
02/25/2015	MS-15-043	Agilent Tune	25850	NA	08/25/2015	HNO_3-1213120	25µL/250mL in 1% HNO_3	KB
02/25/2015	MS-15-044	6020 Tune	25852	1	08/25/2015	HNO_3-1213120	NA	KB
02/27/2015	MS-15-045	1:1 HNO_3	N/A	2	08/27/2015	HNO_3-1214040	N/A	NS
03/02/2015	MS-15-046	Agilent ISS	24864	NA	09/02/2015	HNO_3-1214040	4mL/50mL in 1% HNO_3	KB
03/02/2015	MS-15-047	0.1% NH_4OH	NH_4OH BDH Aristar Lot 201103472	NA	09/02/2015	NA	1mL NH_4OH/1L H_2O	KB
03/04/2015	MS-15-048	1% HNO_3	NA	2	09/04/2015	HNO_3-1214040	NA	KB
03/06/2015	MS-15-049	Agilent ISS 1%-0.5%	24864	NA	09/06/2015	HNO_3-1214040 HNO_3-1214040	4mL/50mL in 1% HNO_3	KB
03/09/2015	MS-15-050	Rinse	NA	NA	09/09/2015	HCl-4213110	10mL HNO_3/5mL HCl to 1L	KB
03/09/2015	MS-15-051	P/A Tune	25287, 25288	NA	09/09/2015	HNO_3-1214040	500mL of each to 50mL in 1% HNO_3	KB
03/13/2015	MS-15-052	1% HNO_3	NA	2	09/13/2015	HNO_3-1214040	NA	KB
03/17/2015	MS-15-053	Agilent ISS	24864	NA	09/17/2015	HNO_3-1214040	4mL/50mL in 1% HNO_3	KB
03/17/2015	MS-15-054	1% HNO_3	NA	2	09/17/2015	HNO_3-1214040	NA	JK
03/18/2015	MS-15-055	1:4 HCl	NA	2	09/18/2015	HCl-4213110	NA	JK
03/24/2015	MS-15-056	Rinse 1%-0.5%	NA	NA	09/24/2015	HNO_3-1214040 HCl-4213110	10mL HNO_3/5mL HCl to 1L	KB
03/24/2015	MS-15-057	6020 Tune	25852	1	09/24/2015	HNO_3-1214040	NA	KB
03/24/2015	MS-15-058	Agilent ISS	24864	NA	09/24/2015	HNO_3-1214040	4mL/50mL in 1% HNO_3	KB
03/25/2015	MS-15-059	1% HNO_3	NA	2	09/25/2015	HNO_3-1214040	NA	KB
03/26/2015	MS-15-060	Agilent ISS	24864	NA	09/26/2015	HNO_3-1214040 ~~HNO_3~~ KB 3/26/15	4mL/50mL in 1% HNO_3	KB
03/27/2015	MS-15-061	1:1 HNO_3	NA	2	09/27/2015	HNO_3-1214040	NA	KB
04/01/2015	MS-15-062	1% HNO_3	NA	2	10/01/2015	HNO_3-1214040	NA	KB
04/02/2015	MS-15-063	Agilent ISS	24864	NA	10/01/2015	HNO_3-1214040	4mL/50mL in 1% HNO_3	KB
04/03/2015	MS-15-064	0.1% NH_4OH	NH_4OH BDH Aristar Lot 201103472	NA	10/03/2015	NA	1mL NH_4OH/1L H_2O	KB
04/10/2015	MS-15-065	Rinse 1%-0.5%	NA	NA	10/10/2015	HNO_3-1214040 HCl-4213110	10mL HNO_3/5mL HCl in 1L	KB
04/10/2015	MS-15-066	Agilent ISS	24864	NA	10/10/2015	HNO_3-1214040	4mL/50mL in 1% HNO_3	KB
04/10/2015	MS-15-067	VAR ISS	24864	1	10/10/2015	HNO_3-1214040 HCl-4213110	4L	JK
04/10/2015	MS-15-068	Rinse 2%-0.05%	NA	1	10/10/2015	HNO_3-1214040	4L	JK
04/14/2015	MS-15-069	1% HNO_3	NA	2	10/14/2015	HNO_3-1214040	NA	KB
04/14/2015	MS-15-070	Agilent ISS	24864	NA	10/14/2015	HNO_3-1214040	4mL/50mL in 1% HNO_3	KB

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Date	ICP-ms Solution #	Solution Type	Primary Solution ID # (Horizon)	Recipe Page	Expiration Date	Acid Lots	Comments	Init.
04/14/2015	MS-15-071	1:4 HCl	NA	2	10/14/2015	HCl-4213110 HNO3-1214040	NA	KB
04/17/2015	MS-15-072	Rinse 1%-0.5%	NA	NA	10/17/2015	HCl-4213110	10mL HNO3/5mL HCl to 1L	KB
04/17/2015	MS-15-073	0.1% NH4OH	NH4OH BDH Aristar Lot 20103472	NA	10/17/2015	NA	1mL NH4OH/1L H2O	KB
04/20/2015	MS-15-074	1% HNO3	NA	2	10/20/2015	HNO3-1214040	NA	KB
04/20/2015	MS-15-075	6020 Tune	25852	NA	10/20/2015	HNO3-1214040	KB 4/22/15 NA ~~4mL/50mL in 1% HNO3~~	KB
04/20/2015	MS-15-076	Agilent ISS	24864	NA	10/20/2015	HNO3-1214040	4mL/50mL in 1% HNO3	KB
04/21/2015	MS-15-077	1% HNO3	NA	2	10/21/2015	HNO3-1214040	NA	JK
04/24/2015	MS-15-078	Agilent Tune	25850	NA	10/24/2015	HNO3 1214040	25mL/250mL 1% HNO3	KB
~~04/27/2015~~	~~MS-15-079~~	~~6020 Tune~~	KB 4/27/2015					
04/27/2015	MS-15-080	Agilent ISS	24864	NA	10/27/2015	HNO3-1214040	4mL/50mL in 1% HNO3	KB
28-Apr-2015	MS-15-081	NO In Agilent ISS	27582	NA	28-Oct-2015	HNO3-1214040	4mL/50mL in 1% HNO3	PAJ
1-May-2015	MS-15-082	Rinse 1%/0.5%	NA	NA	1-Nov-2015	HNO3-1214040 HCl-4213110	10mL HNO3/5mL HCl to 1L	PAJ
1-May-2015	MS-15-083	1% HNO3	NA	2	1-Nov-2015	HNO3-1214040	NA	PAJ
05/04/2015	MS-15-084	0.1% NH4OH	NH4OH BDH Aristar Lot 20110348	NA	11/04/2015	NA	1mL NH4OH/1L H2O	KB
6-May-2015	MS-15-085	Agilent ISS	24864	NA	6-Nov-2015	HNO3-1214040	4mL/50mL in 1% HNO3	PAJ
05/07/2015	MS-15-086	1:1 HNO3	NA	2	11/07/2015	HNO3-1214040	NA	JK
05/08/2015	MS-15-087	1% HNO3	NA	2	11/08/2015	HNO3-1214040	NA	KB
05/11/2015	MS-15-088	Agilent ISS	24864	NA	11/11/2015	HNO3-1214040	4mL/50mL in 1% HNO3	KB
05/19/2015	MS-15-089	1% HNO3	NA	2	11/19/2015	HNO3-1214040	NA	KB
05/19/2015	MS-15-090	Rinse 2%/0.05%	NA	1	11/19/2015	HNO3-1214040 HCl-4213110	2L	KB
20-May-2015	MS-15-091	Rinse 1%/0.5%	NA	NA	20-Nov-2015	HNO3-1214040 HCl-4213110	10mL HNO3/5mL HCl to 1L	PAJ
20-May-2015	MS-15-092	Iodine Agilent ISS	24864	NA	20-Nov-2015	0.1% NH4OH	4mL/50mL in 0.1% NH4OH	PAJ
20-May-2015	MS-15-093	Agilent ISS	24864	NA	20-Nov-2015	HNO3-1214040	4mL/50mL in 1% HNO3	PAJ
05/21/2015	MS-15-094	6020 Tune	25850	~~NA~~ 1. KB 6/22/15	11/1/2015	HNO3-1214040	NA	KB
05/22/2015	MS-15-095	1% HNO3	NA	2	11/22/2015	HNO3-1214040	NA	KB
05/22/2015	MS-15-096	1:4 HCl	NA	2	11/22/2015	HCl-4213110	NA	KB
26-May-2015	MS-15-097	1:1 HNO3	NA	2	26-May-2015 Nov 26-May-2015 PAJ	HNO3-1214040	NA	PAJ
05/27/2015	MS-15-098	1% HNO3	NA	2	11/27/2015	HNO3-1214040	NA	JK
05/27/2015	MS-15-099	Rinse 2%-0.05%	NA	1	11/27/2015	HCl-4213110 HNO3-1214040	4L	JK
05/27/2015	MS-15-~~090~~ 100	28-May-2015 PAJ Agilent Tune	25850	NA	11/27/2015	HNO3-1214040	25mL/250mL in 1% HNO3	KB
28-May-2015	MS-15-101	0.1% NH4OH	NH4OH BDH Aristar lot 20110347 2	NA	28-Nov-2015	NA	1mL NH4OH/1L H2O	PAJ
05/28/2015	MS-15-102	Agilent ISS No In	27582 JK 05-28-2015	NA	11/28/2015	HNO3-1214040	4mL/50mL in 1% HNO3	KB
05/28/2015	MS-15-103	6020 Tune	~~24137~~ 25852	1	~~07~~ 11/01/2015 JK 05-28-2015	HNO3-1214040	250mL	JK
06/03/2015	MS-15-104	1% HNO3	NA	2	12/03/2015	HNO3-1214040	NA	KB
4-Jun-2015	MS-15-105	Rinse 1%/0.5%	NA	NA	4-Dec-2015	HNO3-1214040 HCl-4213110	10mL HNO3/5mL HCl to 1L 4-Jun-2015 PAJ	PAJ
4-Jun-2015	MS-15-106	Agilent ISS	24864	NA	4-Dec-2015	HNO3-1214040	4mL/50mL in 1% HNO3	PAJ

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4-Jun-2015	MS-15-107	Agilent ISS	24864	NA	4-Dec-2015	HNO_3-1214040	4mL/50mL in 1% HNO_3	PAT
5-Jun-2015	MS-15-108	1% HNO_3	NA	2	5-Dec-2015	HNO_3-1214040	NA	PAT
06/05/2015	MS-15-109	Rinse 2%-0.5%	NA	1	12/05/2015	HNO_3-1214040 HCl-4213110	KB 6/5/15 4 L	KB
06/10/2015	MS-15-110	1:1 HNO_3	NA	2	12/10/2015	HNO_3-1213120	NA	KB
10-Jun-2015	MS-15-111	1% HNO_3	NA	2	10-Dec-2015	HNO_3 1213120	NA	PAT
06/15/2015	MS-15-112	1:4 HCl	NA	2	12/15/2015	HCl-4213110	NA	KB
06/17/2015	MS-15-113	1:1 HNO_3	NA	2	12/17/2015	HNO_3-1213120	NA	JK
06/18/2015	MS-15-114	Rinse 1%-0.5%	NA	NA	12/18/2015	HNO_3-1213120 HCl-4213110	10mL HNO_3/5mL HCl to 1L	KB
06/18/2015	MS-15-115	Agilent ISS	24864	NA	09/01/2015	HNO_3-1213120	4mL/50mL in 1% HNO_3 22-Jun-2015 PAT	KB
22-Jun-2015	MS-15-116	0.1% NH_4OH	NH_4OH BDH Aristar lot 20110347 2	NA	22-Dec-2015	NA	1mL/50 L H_2O	PAT
22-Jun-2015	MS-15-117	Iodine Agilent ISS	24864	NA	01-Sep-2015	0.1% NH_4OH	4mL/50mL 0.1% NH_4OH	PAT
22-Jun-2015	MS-15-118	Agilent ISS	24864	NA	01-Sep-2015	HNO_3-1213120	4mL/50mL in 1% HNO_3	PAT
22-Jun-2015	MS-15-119	1% HNO_3	NA	2	22-Dec-2015	HNO_3-1213120	NA	PAT
06/22/2015	MS-15-120	1% HNO_3	NA	2	12/22/2015	HNO_3-1213120	NA	JK
06/22/2015	MS-15-121	Rinse 2%-0.5%	NA	1	12/22/2015	HCl-4213110 HNO_3-1213120	4L	JK
24-Jun-2015	MS-15-122	PA Tune	25287, 25288	NA	24-Dec-2015	HNO_3-1213120	500µL of each in 50mL 1% HNO_3 final volume	PAT
06/25/2015	MS-15-123	Agilent ISS	24864	NA	01-Sep-2015	HNO_3-1213120	4mL/50mL in 1% HNO_3	PAT
06/25/2015	MS-15-124	Agilent ISS	24864	NA	09/01/2015	HNO_3-1213120	4mL/50mL in 1% HNO_3	PAT
06/25/2015	MS-15-125	1% HNO_3	NA	2	12/25/2015	HNO_3-1213120	NA	PAT
06/25/2015	MS-15-126	Rinse 1%-0.5%	NA	NA	12/25/2015	HNO_3-1213120 HCl-4213110	10mL HNO_3/5mL HCl to 1L	KB
06/26/2015	MS-15-127	6020 Tune	25852	1	11/01/2015	HNO_3-1213120	NA	PAT
06/28/2015	MS-15-128	Var ISS.	24864	1	12/28/2015	HNO_3-1213120	4L	JK

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STANDARD REPORT

Working Standard - ICP-MS S50

ICP-MS S50	Description - ICP-MS S50 ISM01.3

Standard: 28396 **Created By:** J. Kershisnik **Amount:** 200 mL
MFG: JTK **Create Date:** 06/16/2015 **Expires:** 06/30/2015
MFG Lot: **Lab Lot:** 06/16/15 JTK **Usable:** Yes
Part ID:

Pos.	Analyte	Name	Concentration
1	7429-90-5	Aluminum	50 ug/L
2	7440-36-0	Antimony	50 ug/L
3	7440-38-2	Arsenic	50 ug/L
4	7440-39-3	Barium	50 ug/L
5	7440-41-7	Beryllium	50 ug/L
6	7440-43-9	Cadmium	50 ug/L
7	7440-70-2	Calcium	50 ug/L
8	7440-47-3	Chromium	50 ug/L
9	7440-48-4	Cobalt	50 ug/L
10	7440-50-8	Copper	50 ug/L
11	7439-89-6	Iron	50 ug/L
12	7439-92-1	Lead	50 ug/L
13	7439-95-4	Magnesium	50 ug/L
14	7439-96-5	Manganese	50 ug/L
15	7440-02-0	Nickel	50 ug/L
16	7440-09-7	Potassium	50 ug/L
17	7782-49-2	Selenium	50 ug/L
18	7440-22-4	Silver	50 ug/L
19	7440-23-5	Sodium	50 ug/L
20	7440-28-0	Thallium	50 ug/L
21	7440-62-2	Vanadium	50 ug/L
22	7440-66-6	Zinc	50 ug/L

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
4304	ASTMType2Wat	ASTM Type 2 Deionized Water	ASTMType2Water	197.5 mL	12/31/2025
26205	6020Cal1	ICPMS EPA 6020 Cal#1	IP-PS-14-051	0.5 mL	12/01/2015
28295	Ultra-HNO3	Ultra Nitric Acid	06/10/15 kb	2 mL	01/14/2017

STANDARD REPORT

Working Standard - ICP-MS S200

ICP-MS S200 — **Description - ICP-MS S200 ISM01.3**

Standard: 28397 **Created By:** J. Kershisnik **Amount:** 100 mL
MFG: JTK **Create Date:** 06/16/2015 **Expires:** 06/30/2015
MFG Lot: **Lab Lot:** 06/16/15 JTK **Usable:** Yes
Part ID:

Pos.	Analyte	Name	Concentration
1	7429-90-5	Aluminum	200 ug/L
2	7440-36-0	Antimony	200 ug/L
3	7440-38-2	Arsenic	200 ug/L
4	7440-39-3	Barium	200 ug/L
5	7440-41-7	Beryllium	200 ug/L
6	7440-43-9	Cadmium	200 ug/L
7	7440-70-2	Calcium	200 ug/L
8	7440-47-3	Chromium	200 ug/L
9	7440-48-4	Cobalt	200 ug/L
10	7440-50-8	Copper	200 ug/L
11	7439-89-6	Iron	200 ug/L
12	7439-92-1	Lead	200 ug/L
13	7439-95-4	Magnesium	200 ug/L
14	7439-96-5	Manganese	200 ug/L
15	7440-02-0	Nickel	200 ug/L
16	7440-09-7	Potassium	200 ug/L
17	7782-49-2	Selenium	200 ug/L
18	7440-22-4	Silver	200 ug/L
19	7440-23-5	Sodium	200 ug/L
20	7440-28-0	Thallium	200 ug/L
21	7440-62-2	Vanadium	200 ug/L
22	7440-66-6	Zinc	200 ug/L

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
4304	ASTMType2Wat	ASTM Type 2 Deionized Water	ASTMType2Water	98 mL	12/31/2025
26205	6020Cal1	ICPMS EPA 6020 Cal#1	IP-PS-14-051	1 mL	12/01/2015
28295	Ultra-HNO3	Ultra Nitric Acid	06/10/15 kb	1 mL	01/14/2017

STANDARD REPORT

Working Standard - ICP-MS S500

ICP-MS S500	Description - ICP-MS S500 ISM01.3

Standard: 28398 **Created By:** J. Kershisnik **Amount:** 100 mL
MFG: JTK **Create Date:** 06/16/2015 **Expires:** 06/30/2015
MFG Lot: **Lab Lot:** 06/16/15 JTK **Usable:** Yes
Part ID:

Pos.	Analyte	Name	Concentration
1	7429-90-5	Aluminum	500 ug/L
2	7440-36-0	Antimony	500 ug/L
3	7440-38-2	Arsenic	500 ug/L
4	7440-39-3	Barium	500 ug/L
5	7440-41-7	Beryllium	500 ug/L
6	7440-43-9	Cadmium	500 ug/L
7	7440-70-2	Calcium	500 ug/L
8	7440-47-3	Chromium	500 ug/L
9	7440-48-4	Cobalt	500 ug/L
10	7440-50-8	Copper	500 ug/L
11	7439-89-6	Iron	500 ug/L
12	7439-92-1	Lead	500 ug/L
13	7439-95-4	Magnesium	500 ug/L
14	7439-96-5	Manganese	500 ug/L
15	7440-02-0	Nickel	500 ug/L
16	7440-09-7	Potassium	500 ug/L
17	7782-49-2	Selenium	500 ug/L
18	7440-22-4	Silver	500 ug/L
19	7440-23-5	Sodium	500 ug/L
20	7440-28-0	Thallium	500 ug/L
21	7440-62-2	Vanadium	500 ug/L
22	7440-66-6	Zinc	500 ug/L

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
4304	ASTMType2Wat	ASTM Type 2 Deionized Water	ASTMType2Water	96.5 mL	12/31/2025
26205	6020Cal1	ICPMS EPA 6020 Cal#1	IP-PS-14-051	2.5 mL	12/01/2015
28295	Ultra-HNO3	Ultra Nitric Acid	06/10/15 kb	1 mL	01/14/2017

STANDARD REPORT

Working Standard - MS ISM S2500

MS ISM S2500 — **Description - ISM01.3 ICP-MS S2500**

Standard: 28399 **Created By:** J. Kershisnik **Amount:** 50 mL
MFG: JTK **Create Date:** 06/16/2015 **Expires:** 06/30/2015
MFG Lot: **Lab Lot:** 06/16/15 JTK **Usable:** Yes
Part ID:

Pos.	Analyte	Name	Concentration
1	7429-90-5	Aluminum	2500 ug/L
2	7440-36-0	Antimony	2500 ug/L
3	7440-38-2	Arsenic	2500 ug/L
4	7440-39-3	Barium	2500 ug/L
5	7440-41-7	Beryllium	2500 ug/L
6	7440-43-9	Cadmium	2500 ug/L
7	7440-70-2	Calcium	2500 ug/L
8	7440-47-3	Chromium	2500 ug/L
9	7440-48-4	Cobalt	2500 ug/L
10	7440-50-8	Copper	2500 ug/L
11	7439-89-6	Iron	2500 ug/L
12	7439-92-1	Lead	2500 ug/L
13	7439-95-4	Magnesium	2500 ug/L
14	7439-96-5	Manganese	2500 ug/L
15	7440-02-0	Nickel	2500 ug/L
16	7440-09-7	Potassium	2500 ug/L
17	7440-23-5	Sodium	2500 ug/L
18	7440-28-0	Thallium	2500 ug/L
19	7440-62-2	Vanadium	2500 ug/L
20	7440-66-6	Zinc	2500 ug/L

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
4304	ASTMType2Wat	ASTM Type 2 Deionized Water	ASTMType2Water	43.25 mL	12/31/2025
27946	DATACHEM-1	ICPMS 20 ppm (No Ag or Se)	IP-PS-15-013	6.25 mL	06/01/2016
28295	Ultra-HNO3	Ultra Nitric Acid	06/10/15 kb	0.5 mL	01/14/2017

STANDARD REPORT

Working Standard - MS ISM S5000

MS ISM S5000	Description - ISM01.3 ICP-MS S5000

Standard: 28400 **Created By:** J. Kershisnik **Amount:** 50 mL
MFG: JTK **Create Date:** 06/16/2015 **Expires:** 06/30/2015
MFG Lot: **Lab Lot:** 06/16/15 JTK **Usable:** Yes
Part ID:

Pos.	Analyte	Name	Concentration
1	7429-90-5	Aluminum	5000 ug/L
2	7440-36-0	Antimony	5000 ug/L
3	7440-38-2	Arsenic	5000 ug/L
4	7440-39-3	Barium	5000 ug/L
5	7440-41-7	Beryllium	5000 ug/L
6	7440-43-9	Cadmium	5000 ug/L
7	7440-70-2	Calcium	5000 ug/L
8	7440-47-3	Chromium	5000 ug/L
9	7440-48-4	Cobalt	5000 ug/L
10	7440-50-8	Copper	5000 ug/L
11	7439-89-6	Iron	5000 ug/L
12	7439-92-1	Lead	5000 ug/L
13	7439-95-4	Magnesium	5000 ug/L
14	7439-96-5	Manganese	5000 ug/L
15	7440-02-0	Nickel	5000 ug/L
16	7440-09-7	Potassium	5000 ug/L
17	7440-23-5	Sodium	5000 ug/L
18	7440-28-0	Thallium	5000 ug/L
19	7440-62-2	Vanadium	5000 ug/L
20	7440-66-6	Zinc	5000 ug/L

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
4304	ASTMType2Wat	ASTM Type 2 Deionized Water	ASTMType2Water	37 mL	12/31/2025
27946	DATACHEM-1	ICPMS 20 ppm (No Ag or Se)	IP-PS-15-013	12.5 mL	06/01/2016
28295	Ultra-HNO3	Ultra Nitric Acid	06/10/15 kb	0.5 mL	01/14/2017

STANDARD REPORT

Working Standard - ISM MS100000

ISM MS100000	Description - ICP-MS ISM01.3 S100,000 ug/L

Standard: 28401 **Created By:** J. Kershisnik **Amount:** 100 mL
MFG: JTK **Create Date:** 06/16/2015 **Expires:** 06/30/2015
MFG Lot: **Lab Lot:** 06/16/15 JTK **Usable:** Yes
Part ID: ICP-MS ISM S100000

Pos.	Analyte	Name	Concentration
1	7440-70-2	Calcium	100000 ug/L
2	7440-09-7	Potassium	100000 ug/L
3	7439-95-4	Magnesium	100000 ug/L
4	7440-23-5	Sodium	100000 ug/L
5	7429-90-5	Aluminum	100000 ug/L
6	7439-89-6	Iron	100000 ug/L

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
4304	ASTMType2Wat	ASTM Type 2 Deionized Water	ASTMType2Water	96 mL	12/31/2025
25304	IV-STOCK-2	ISM01.3 Standard	ICP-CLP	1 mL	10/01/2015
26849	Al stock	10,000 ug/mL Al Stock	SPEX Al 10,000 ug/mL	1 mL	01/30/2016
26850	Fe Stock	10,000 ug/mL Fe Stock	SPEX Fe 10,000 ug/mL	1 mL	01/30/2016
28295	Ultra-HNO3	Ultra Nitric Acid	06/10/15 kb	1 mL	01/14/2017

STANDARD REPORT

Working Standard - ICPMS CLPICV

ICPMS CLPICV — **Description - ICP-MS ICV ISM01.3**

Standard: 28402 **Created By:** J. Kershisnik **Amount:** 100 mL
MFG: JTK **Create Date:** 06/16/2015 **Expires:** 06/30/2015
MFG Lot: **Lab Lot:** 06/16/15 JTK **Usable:** Yes
Part ID:

Pos.	Analyte	Name	Concentration
1	7429-90-5	Aluminum	504.2 ug/L
2	7440-36-0	Antimony	198.8 ug/L
3	7440-38-2	Arsenic	199.8 ug/L
4	7440-39-3	Barium	99.4 ug/L
5	7440-41-7	Beryllium	99 ug/L
6	7440-43-9	Cadmium	99.2 ug/L
7	7440-70-2	Calcium	2005.2 ug/L
8	7440-47-3	Chromium	98 ug/L
9	7440-48-4	Cobalt	99.8 ug/L
10	7440-50-8	Copper	98.4 ug/L
11	7439-89-6	Iron	1016.4 ug/L
12	7439-92-1	Lead	200.4 ug/L
13	7439-95-4	Magnesium	1214.8 ug/L
14	7439-96-5	Manganese	99.8 ug/L
15	7440-02-0	Nickel	100.6 ug/L
16	7440-09-7	Potassium	2004.2 ug/L
17	7782-49-2	Selenium	205.8 ug/L
18	7440-22-4	Silver	100.2 ug/L
19	7440-23-5	Sodium	2019.4 ug/L
20	7440-28-0	Thallium	205.6 ug/L
21	7440-62-2	Vanadium	100.2 ug/L
22	7440-66-6	Zinc	205 ug/L

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
4304	ASTMType2Wat	ASTM Type 2 Deionized Water	ASTMType2Water	97 mL	12/31/2025
25667	CLPICP-ICV1	CLP-ICP/ICPMS-ICV-1	IP-PS-14-039	2 mL	08/12/2020
28295	Ultra-HNO3	Ultra Nitric Acid	06/10/15 kb	1 mL	01/14/2017

STANDARD REPORT

Working Standard - ICP-MS ICSA

ICP-MS ICSA		Description - ICP-MS ICSA ISM01.3
Standard: 28403	**Created By:** J. Kershisnik	**Amount:** 100 mL
MFG: JTK	**Create Date:** 06/16/2015	**Expires:** 06/30/2015
MFG Lot:	**Lab Lot:** 06/16/15 JTK	**Usable:** Yes
Part ID:		

Pos.	Analyte	Name	Concentration
1	7429-90-5	Aluminum	100000 ug/L
2	7440-36-0	Antimony	1.5 ug/L
3	7440-38-2	Arsenic	0.1 ug/L
4	7440-39-3	Barium	1.2 ug/L
5	7440-43-9	Cadmium	0.7 ug/L
6	7440-70-2	Calcium	100000 ug/L
7	7440-44-0	Carbon	200000 ug/L
8	16887-00-6	Chloride	1000000 ug/L
9	7440-47-3	Chromium	21 ug/L
10	7440-48-4	Cobalt	1 ug/L
11	7440-50-8	Copper	8 ug/L
12	7439-89-6	Iron	100000 ug/L
13	7439-92-1	Lead	4 ug/L
14	7439-95-4	Magnesium	100000 ug/L
15	7439-96-5	Manganese	7 ug/L
16	7439-98-7	Molybdenum	2000 ug/L
17	7440-02-0	Nickel	6 ug/L
18	7723-14-0	Phosphorus	100000 ug/L
19	7440-09-7	Potassium	100000 ug/L
20	7782-49-2	Selenium	0.3 ug/L
21	7440-23-5	Sodium	100000 ug/L
22	63705-05-5	Sulfur	100000 ug/L
23	7440-32-6	Titanium	2000 ug/L
24	7440-62-2	Vanadium	0.5 ug/L
25	7440-66-6	Zinc	11 ug/L

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
4304	ASTMType2Wat	ASTM Type 2 Deionized Water	ASTMType2Water	89 mL	12/31/2025
16485	CLPMS-ICS-A	CLP-ICP-MS-ICS-Part A (0803)	IP-PS-12-036	10 mL	08/12/2020
28295	Ultra-HNO3	Ultra Nitric Acid	06/10/15 kb	1 mL	01/14/2017

STANDARD REPORT

Working Standard - ICP-MS ICSAB

ICP-MS ICSAB — **Description - ICP-MS ICSAB ISM01.3**

Standard: 28404 **Created By:** J. Kershisnik **Amount:** 100 mL
MFG: JTK **Create Date:** 06/16/2015 **Expires:** 06/30/2015
MFG Lot: JTK **Lab Lot:** 06/16/15 JTK **Usable:** Yes
Part ID:

Pos.	Analyte	Name	Concentration
1	7429-90-5	Aluminum	100000 ug/L
2	7440-36-0	Antimony	22 ug/L
3	7440-38-2	Arsenic	19 ug/L
4	7440-39-3	Barium	21.7 ug/L
5	7440-43-9	Cadmium	20 ug/L
6	7440-70-2	Calcium	100000 ug/L
7	7440-44-0	Carbon	200000 ug/L
8	16887-00-6	Chloride	1000000 ug/L
9	7440-47-3	Chromium	40 ug/L
10	7440-48-4	Cobalt	20 ug/L
11	7440-50-8	Copper	25 ug/L
12	7439-89-6	Iron	100000 ug/L
13	7439-92-1	Lead	25 ug/L
14	7439-95-4	Magnesium	100000 ug/L
15	7439-96-5	Manganese	27 ug/L
16	7439-98-7	Molybdenum	2000 ug/L
17	7440-02-0	Nickel	24 ug/L
18	7723-14-0	Phosphorus	100000 ug/L
19	7440-09-7	Potassium	100000 ug/L
20	7782-49-2	Selenium	19 ug/L
21	7440-23-5	Sodium	100000 ug/L
22	63705-05-5	Sulfur	100000 ug/L
23	7440-32-6	Titanium	2000 ug/L
24	7440-62-2	Vanadium	19 ug/L
25	7440-66-6	Zinc	29 ug/L
26	7440-41-7	Beryllium	19 ug/L
27	7440-22-4	Silver	18 ug/L
28	7440-28-0	Thallium	21 ug/L

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
4304	ASTMType2Wat	ASTM Type 2 Deionized Water	ASTMType2Water	79 mL	12/31/2025
16485	CLPMS-ICS-A	CLP-ICP-MS-ICS-Part A (0803)	IP-PS-12-036	10 mL	08/12/2020
16486	CLPMS-ICS-B	CLP-ICP-MS-ICS-Part B (0803)	IP-PS-12-037	10 mL	08/12/2020
28295	Ultra-HNO3	Ultra Nitric Acid	06/10/15 kb	1 mL	01/14/2017

STANDARD REPORT

Working Standard - ISM MS CCV

ISM MS CCV	Description - ICP-MS ISM01.3 CCV

Standard: 28405 **Created By:** J. Kershisnik **Amount:** 100 mL
MFG: JTK **Create Date:** 06/16/2015 **Expires:** 06/30/2015
MFG Lot: **Lab Lot:** 06/16/15 JTK **Usable:** Yes
Part ID: ICP-MS ISM CCV

Pos.	Analyte	Name	Concentration
1	7440-70-2	Calcium	50000 ug/L
2	7440-09-7	Potassium	50000 ug/L
3	7439-95-4	Magnesium	50000 ug/L
4	7440-23-5	Sodium	50000 ug/L
5	7440-22-4	Silver	250 ug/L
6	7429-90-5	Aluminum	50000 ug/L
7	7439-89-6	Iron	50000 ug/L
8	7782-49-2	Selenium	250 ug/L
9	7440-36-0	Antimony	2500 ug/L
10	7440-38-2	Arsenic	2500 ug/L
11	7440-39-3	Barium	2500 ug/L
12	7440-41-7	Beryllium	2500 ug/L
13	7440-43-9	Cadmium	2500 ug/L
14	7440-47-3	Chromium	2500 ug/L
15	7440-48-4	Cobalt	2500 ug/L
16	7440-50-8	Copper	2500 ug/L
17	7439-92-1	Lead	2500 ug/L
18	7439-96-5	Manganese	2500 ug/L
19	7440-02-0	Nickel	2500 ug/L
20	7440-28-0	Thallium	2500 ug/L
21	7440-62-2	Vanadium	2500 ug/L
22	7440-66-6	Zinc	2500 ug/L

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
4304	ASTMType2Wat	ASTM Type 2 Deionized Water	ASTMType2Water	85.525 mL	12/31/2025
25304	IV-STOCK-2	ISM01.3 Standard	ICP-CLP	0.475 mL	10/01/2015
25320	Ag Stock	1,000 ug/mL Ag Stock	Ag 1,000 ug/mL	0.025 mL	08/30/2015
26849	Al stock	10,000 ug/mL Al Stock	SPEX Al 10,000 ug/mL	0.475 mL	01/30/2016
26850	Fe Stock	10,000 ug/mL Fe Stock	SPEX Fe 10,000 ug/mL	0.475 mL	01/30/2016
27253	Se Stock Low	1,000 ug/mL Se Stock	SPEX Se 1,000 ug/mL	0.025 mL	02/28/2016
27946	DATACHEM-1	ICPMS 20 ppm (No Ag or Se)	IP-PS-15-013	12.5 mL	06/01/2016
28295	Ultra-HNO3	Ultra Nitric Acid	06/10/15 kb	0.5 mL	01/14/2017

STANDARD REPORT

Stock Standard - 6020ISS

6020ISS	Description - ICPMS EPA 6020 ISS

Standard: 24864
MFG: Inorganic Ventures
MFG Lot: G2-MEB464028
Part ID: 6020ISS

Created By: K. Bitner
Create Date: 8/12/2014
Lab Lot: IP-PS-14-022

Amount: 125 mL
Expires: 9/1/2015
Usable: Yes

Pos.	Analyte	Name	Concentration
1	7440-69-9	Bismuth	10 ug/mL
2	7440-60-0	Holmium	10 ug/mL
3	7440-74-6	Indium	10 ug/mL
4	7439-93-2(6)	Lithium-6	10 ug/mL
5	7440-16-6	Rhodium	10 ug/mL
6	7440-20-2	Scandium	10 ug/mL
7	7440-27-9	Terbium	10 ug/mL
8	7440-65-5	Yttrium	10 ug/mL

STANDARD REPORT

Stock Standard - IMS MES2

IMS MES2	Description - Multi-element Solution #2

Standard: 25397 **Created By:** K. Bitner **Amount:** 125 mL
MFG: SPEX **Create Date:** 9/30/2014 **Expires:** 9/30/2015
MFG Lot: CL11-01YPY **Lab Lot:** IP-PS-14-027 **Usable:** Yes
Part ID: CLMS-2

Pos.	Analyte	Name	Concentration
1	7429-90-5	Aluminum	10 mg/L
2	7440-38-2	Arsenic	10 mg/L
3	7440-39-3	Barium	10 mg/L
4	7440-41-7	Beryllium	10 mg/L
5	7440-69-9	Bismuth	10 mg/L
6	7440-43-9	Cadmium	10 mg/L
7	7440-70-2	Calcium	10 mg/L
8	7440-46-2	Cesium	10 mg/L
9	7440-47-3	Chromium	10 mg/L
10	7440-48-4	Cobalt	10 mg/L
11	7440-50-8	Copper	10 mg/L
12	7440-55-3	Gallium	10 mg/L
13	7440-74-6	Indium	10 mg/L
14	7439-89-6	Iron	10 mg/L
15	7439-92-1	Lead	10 mg/L
16	7439-93-2	Lithium	10 mg/L
17	7439-95-4	Magnesium	10 mg/L
18	7439-96-5	Manganese	10 mg/L
19	7440-02-0	Nickel	10 mg/L
20	7440-09-7	Potassium	10 mg/L
21	7440-17-7	Rubidium	10 mg/L
22	7782-49-2	Selenium	10 mg/L
23	7440-22-4	Silver	10 mg/L
24	7440-23-5	Sodium	10 mg/L
25	7440-24-6	Strontium	10 mg/L
26	7440-28-0	Thallium	10 mg/L
27	7440-61-1	Uranium	10 mg/L
28	7440-62-2	Vanadium	10 mg/L
29	7440-66-6	Zinc	10 mg/L

STANDARD REPORT

Stock Standard - Var-Tune Std

Var-Tune Std	Description - Var Tune Std/CLP, 200.8 Tune

Standard: 25851
MFG: Inorganic Ventures
MFG Lot: G2-MEB478062
Part ID: VAR-TS-MS

Created By: K. Bitner
Create Date: 10/29/2014
Lab Lot: IP-PS-14-043

Amount: 125 mL
Expires: 11/1/2015
Usable: Yes

Pos.	Analyte	Name	Concentration
1	7440-39-3	Barium	10 mg/L
2	7440-41-7	Beryllium	10 mg/L
3	7440-45-1	Cerium	10 mg/L
4	7440-48-4	Cobalt	10 mg/L
5	7440-74-6	Indium	10 mg/L
6	7439-92-1	Lead	10 mg/L
7	7439-95-4	Magnesium	10 mg/L
8	7440-28-0	Thallium	10 mg/L
9	7440-29-1	Thorium	10 mg/L

STANDARD REPORT

Constituent

Stock Standard - CLPMS-ICS-A

CLPMS-ICS-A	Description - CLP-ICP-MS-ICS-Part A (0803)

Standard: 16485 **Created By:** J. Kershisnik **Amount:** 600 mL
MFG: QATS Laboratory **Create Date:** 9/26/2012 **Expires:** 8/12/2020
MFG Lot: ICSA-0803 **Lab Lot:** IP-PS-12-036 **Usable:** Yes
Part ID:

Pos.	Analyte	Name	Concentration
1	7429-90-5	Aluminum	1000000 ug/L
2	7440-36-0	Antimony	15 ug/L
3	7440-38-2	Arsenic	1 ug/L
4	7440-39-3	Barium	12 ug/L
5	7440-43-9	Cadmium	7 ug/L
6	7440-70-2	Calcium	1000000 ug/L
7	7440-44-0	Carbon	2000000 ug/L
8	16887-00-6	Chloride	10000000 ug/L
9	7440-47-3	Chromium	210 ug/L
10	7440-48-4	Cobalt	10 ug/L
11	7440-50-8	Copper	80 ug/L
12	7439-89-6	Iron	1000000 ug/L
13	7439-92-1	Lead	40 ug/L
14	7439-95-4	Magnesium	1000000 ug/L
15	7439-96-5	Manganese	70 ug/L
16	7439-98-7	Molybdenum	20000 ug/L
17	7440-02-0	Nickel	60 ug/L
18	7723-14-0	Phosphorus	1000000 ug/L
19	7440-09-7	Potassium	1000000 ug/L
20	7782-49-2	Selenium	3 ug/L
21	7440-23-5	Sodium	1000000 ug/L
22	63705-05-5	Sulfur	1000000 ug/L
23	7440-32-6	Titanium	20000 ug/L
24	7440-62-2	Vanadium	5 ug/L
25	7440-66-6	Zinc	110 ug/L

STANDARD REPORT

Constituent

Stock Standard - CLPMS-ICS-B

CLPMS-ICS-B	Description - CLP-ICP-MS-ICS-Part B (0803)

Standard: 16486 **Created By:** J. Kershisnik **Amount:** 300 mL
MFG: QATS Laboratory **Create Date:** 9/26/2012 **Expires:** 8/12/2020
MFG Lot: ICSB-0803 **Lab Lot:** IP-PS-12-037 **Usable:** Yes
Part ID:

Pos.	Analyte	Name	Concentration
1	7429-90-5	Aluminum	0 ug/L
2	7440-36-0	Antimony	205 ug/L
3	7440-38-2	Arsenic	189 ug/L
4	7440-39-3	Barium	205 ug/L
5	7440-41-7	Beryllium	190 ug/L
6	7440-43-9	Cadmium	193 ug/L
7	7440-70-2	Calcium	0 ug/L
8	7440-44-0	Carbon	0 ug/L
9	16887-00-6	Chloride	0 ug/L
10	7440-47-3	Chromium	190 ug/L
11	7440-48-4	Cobalt	190 ug/L
12	7440-50-8	Copper	170 ug/L
13	7439-89-6	Iron	0 ug/L
14	7439-92-1	Lead	210 ug/L
15	7439-95-4	Magnesium	0 ug/L
16	7439-96-5	Manganese	200 ug/L
17	7439-98-7	Molybdenum	0 ug/L
18	7440-02-0	Nickel	180 ug/L
19	7723-14-0	Phosphorus	0 ug/L
20	7440-09-7	Potassium	0 ug/L
21	7782-49-2	Selenium	187 ug/L
22	7440-22-4	Silver	180 ug/L
23	7440-23-5	Sodium	0 ug/L
24	63705-05-5	Sulfur	0 ug/L
25	7440-28-0	Thallium	210 ug/L
26	7440-32-6	Titanium	0 ug/L
27	7440-62-2	Vanadium	185 ug/L
28	7440-66-6	Zinc	180 ug/L

STANDARD REPORT

Constituent

Stock Standard - IV-STOCK-2

IV-STOCK-2	Description - ISM01.3 Standard

Standard: 25304
MFG: Inorganic Ventures
MFG Lot: G2-MEB506019
Part ID: P1081H

Created By: J. Sanchez
Create Date: 9/22/2014
Lab Lot: ICP-CLP

Amount: 500 mL
Expires: 10/1/2015
Usable: Yes

Pos.	Analyte	Name	Concentration
1	7440-70-2	Calcium	10000 ug/mL
2	7440-09-7	Potassium	10000 ug/mL
3	7439-95-4	Magnesium	10000 ug/mL
4	7440-23-5	Sodium	10000 ug/mL

STANDARD REPORT

Constituent

Stock Standard - Ag Stock

Ag Stock	Description - 1,000 ug/mL Ag Stock

Standard:	25320	**Created By:**	P. Foote	**Amount:**	125 mL
MFG:	Spex CertiPrep	**Create Date:**	9/2/2014	**Expires:**	8/30/2015
MFG Lot:	19-13AGY	**Lab Lot:**	Ag 1,000 ug/mL	**Usable:**	Yes
Part ID:	PLAG2-2Y				

Pos.	Analyte	Name	Concentration
1	7440-22-4	Silver	1000 ug/mL

STANDARD REPORT

Constituent

Stock Standard - CLPICP-ICV1

CLPICP-ICV1	Description - CLP-ICP/ICPMS-ICV-1

Standard: 25667 **Created By:** J. Kershisnik **Amount:** 500 mL
MFG: QATS Laboratory **Create Date:** 10/16/2014 **Expires:** 8/12/2020
MFG Lot: ICV1-0307 **Lab Lot:** IP-PS-14-039 **Usable:** Yes
Part ID:

Pos.	Analyte	Name	Concentration
1	7429-90-5	Aluminum	25210 ug/L
2	7440-36-0	Antimony	9940 ug/L
3	7440-38-2	Arsenic	9990 ug/L
4	7440-39-3	Barium	4970 ug/L
5	7440-41-7	Beryllium	4950 ug/L
6	7440-43-9	Cadmium	4960 ug/L
7	7440-70-2	Calcium	100260 ug/L
8	7440-47-3	Chromium	4900 ug/L
9	7440-48-4	Cobalt	4990 ug/L
10	7440-50-8	Copper	4920 ug/L
11	7439-89-6	Iron	50820 ug/L
12	7439-92-1	Lead	10020 ug/L
13	7439-95-4	Magnesium	60740 ug/L
14	7439-96-5	Manganese	4990 ug/L
15	7440-02-0	Nickel	5030 ug/L
16	7440-09-7	Potassium	100210 ug/L
17	7782-49-2	Selenium	10290 ug/L
18	7440-22-4	Silver	5010 ug/L
19	7440-23-5	Sodium	100970 ug/L
20	7440-28-0	Thallium	10280 ug/L
21	7440-62-2	Vanadium	5010 ug/L
22	7440-66-6	Zinc	10250 ug/L

STANDARD REPORT

Constituent

Stock Standard - 6020Cal1

6020Cal1	Description - ICPMS EPA 6020 Cal#1

Standard: 26205 **Created By:** K. Bitner **Amount:** 125 mL
MFG: Inorganic Ventures **Create Date:** 12/2/2014 **Expires:** 12/1/2015
MFG Lot: F2-MEB419032 **Lab Lot:** IP-PS-14-051 **Usable:** Yes
Part ID: 6020CAL-1

Pos.	Analyte	Name	Concentration
1	7429-90-5	Aluminum	20 mg/L
2	7440-36-0	Antimony	20 mg/L
3	7440-38-2	Arsenic	20 mg/L
4	7440-39-3	Barium	20 mg/L
5	7440-41-7	Beryllium	20 mg/L
6	7440-43-9	Cadmium	20 mg/L
7	7440-70-2	Calcium	20 mg/L
8	7440-47-3	Chromium	20 mg/L
9	7440-48-4	Cobalt	20 mg/L
10	7440-50-8	Copper	20 mg/L
11	7439-89-6	Iron	20 mg/L
12	7439-92-1	Lead	20 mg/L
13	7439-95-4	Magnesium	20 mg/L
14	7439-96-5	Manganese	20 mg/L
15	7440-02-0	Nickel	20 mg/L
16	7440-09-7	Potassium	20 mg/L
17	7782-49-2	Selenium	20 mg/L
18	7440-22-4	Silver	20 mg/L
19	7440-23-5	Sodium	20 mg/L
20	7440-28-0	Thallium	20 mg/L
21	7440-62-2	Vanadium	20 mg/L
22	7440-66-6	Zinc	20 mg/L

STANDARD REPORT

Constituent

Stock Standard - Al stock

Al stock	Description - 10,000 ug/mL Al Stock

Standard:	26849	**Created By:**	P. Foote	**Amount:**	125 mL
MFG:	SPEX CertiPrep	**Create Date:**	1/26/2015	**Expires:**	1/30/2016
MFG Lot:	AG15-142ALY	**Lab Lot:**	SPEX Al 10,000 ug/mL	**Usable:**	Yes
Part ID:	PLAL2-3Y				

Pos.	Analyte	Name	Concentration
1	7429-90-5	Aluminum	10000 ug/mL

STANDARD REPORT

Constituent

Stock Standard - Fe Stock

Fe Stock	Description - 10,000 ug/mL Fe Stock

Standard:	26850	**Created By:**	P. Foote	**Amount:**	125 mL
MFG:	SPEX CertiPrep	**Create Date:**	1/26/2015	**Expires:**	1/30/2016
MFG Lot:	AL15-138FEY	**Lab Lot:**	SPEX Fe 10,000 ug/mL	**Usable:**	Yes
Part ID:	PLFE2-3Y				

Pos.	Analyte	Name	Concentration
1	7439-89-6	Iron	10000 ug/mL

STANDARD REPORT

Constituent

Stock Standard - Se Stock Low

Se Stock Low			Description - 1,000 ug/mL Se Stock
Standard: 27253	**Created By:** P. Foote		**Amount:** 30 mL
MFG: SPEX CertiPrep	**Create Date:** 2/26/2015		**Expires:** 2/28/2016
MFG Lot: 20-79SEM	**Lab Lot:** SPEX Se 1,000 ug/mL		**Usable:** Yes
Part ID: PLSE2-2M			

Pos.	Analyte	Name	Concentration
1	7782-49-2	Selenium	1000 ug/mL

STANDARD REPORT

Constituent

Stock Standard - DATACHEM-1

DATACHEM-1	Description - ICPMS 20 ppm (No Ag or Se)

Standard: 27946 **Created By:** K. Bitner **Amount:** 250 mL
MFG: Inorganic Ventures **Create Date:** 5/4/2015 **Expires:** 6/1/2016
MFG Lot: G2-MEB452151 **Lab Lot:** IP-PS-15-013 **Usable:** Yes
Part ID: DATACHEM-1

Pos.	Analyte	Name	Concentration
1	7429-90-5	Aluminum	20 ug/mL
2	7440-36-0	Antimony	20 ug/mL
3	7440-38-2	Arsenic	20 ug/mL
4	7440-39-3	Barium	20 ug/mL
5	7440-41-7	Beryllium	20 ug/mL
6	7440-43-9	Cadmium	20 ug/mL
7	7440-70-2	Calcium	20 ug/mL
8	7440-47-3	Chromium	20 ug/mL
9	7440-48-4	Cobalt	20 ug/mL
10	7440-50-8	Copper	20 ug/mL
11	7439-89-6	Iron	20 ug/mL
12	7439-92-1	Lead	20 ug/mL
13	7439-95-4	Magnesium	20 ug/mL
14	7439-96-5	Manganese	20 ug/mL
15	7440-02-0	Nickel	20 ug/mL
16	7440-09-7	Potassium	20 ug/mL
17	7440-23-5	Sodium	20 ug/mL
18	7440-28-0	Thallium	20 ug/mL
19	7440-62-2	Vanadium	20 ug/mL
20	7440-66-6	Zinc	20 ug/mL

STANDARD REPORT

Constituent

Solvent Standard - ASTMType2Wat

ASTMType2Wat	Description - ASTM Type 2 Deionized Water

Standard:	4304	**Created By:**	R. Lemon	**Amount:**	1 L
MFG:		**Create Date:**	6/1/2009	**Expires:**	12/31/2025
MFG Lot:		**Lab Lot:**	ASTMType2Water	**Usable:**	Yes
Part ID:					

Pos.	Analyte	Name	Concentration
Solvent - Analyte(s) not applicable			

STANDARD REPORT

Constituent

Solvent Standard - Ultra-HNO3

Ultra-HNO3			Description - Ultra Nitric Acid
Standard: 28295	**Created By:** K. Bitner		**Amount:** 2000 mL
MFG: BDH Aristar Ultra	**Create Date:** 6/10/2015		**Expires:** 1/14/2017
MFG Lot: 1213120	**Lab Lot:** 06/10/15 kb		**Usable:** Yes
Part ID: 87003-658			

Pos.	Analyte	Name	Concentration
Solvent - Analyte(s) not applicable			

ISM01.3-7471B Mercury in Soil Analysis Electronic Log

Electronic Log Information

File Location: ALSltws013\AA_current\Mercury\Hg-EPA-CLP-DATA File Name: AN-HGS-MF9K15-151598

Sample & Case Information

ALS workorder ID	EPA Sample Names	Case	SDG	Account	No. of Samples
1516423	MF9K15-17, 19-23, 25-29	8201	MF9K15	8201	13

Sample Preparation Information

1) Preparation Group ID: EHG/5893 (HBN:151193)
2) Preparation Log File Location:
   AlsItws013\DataReview; folder = 151598
3) Physical Description File Location:
   AlsItws013\AAcurrent\Mercury\Hg-EPA-CLP-DATA
4) Preparation Date/Time: 07/01/2015 05:00
5) Preparer: Shane Stewart

Analysis and Data Information

1) Analysis Group ID: EHG/5904 (HBN:151598)
2) Data Result File Name: CV2-15192
3) Analysis Date/Start-time: 07/01/2015 12:48
4) 12% $NH_2OH \bullet HCl$ Entry: AA_current/HgReagents/
5) 10% SnCl2 Entry: AA_current/HgReagents/
6) 5% HNO3 + 5% HCl Entry: AA_current/HgReagents/
7) Analyst: Christopher R. Hansen

Analysis Instrument

1) Instrument Type: Cold Vapor Atomic Absorption
2) Instrument Name: CETAC M-7500
3) Instrument ID: AACV02
4) Reading Wavelength: 253.65 nm
5) Running Condition of Instrument: Good

Calibration Data and Calculations

1) Correlation Coefficient: 0.99995
2) equation $A = n_1 + n_2C$ n_1 337.906
3) then $C = (A - n_1) / n_2$ n_2 19621.64
4) Calculated mercury concentrations (µg/L)

Stds.	µAbs	Result	Target	% Difference
S0	87.092	-0.0128	0.0	NA
S0.2	3975.6	0.1854	0.2	7.3%
S0.5	9970.7	0.4909	0.5	1.8%
S1.0	20171	1.0108	1.0	-1.1%
S5.0	99467	5.0520	5.0	-1.0%
S10	196040	9.9738	10.0	0.3%

Sample Preparation Comments

None were required.

Sample Analysis Comments

None were required.

Sample ID	Dilution	Reason	Pipettes used

No sample dilutions were required.

Method Information

1) Method/SOP: ISM01.3 7471B Mercury in Soil: SOP (IT-EP-ISM-HG)
2) Method Detection Limit (MDL) = 0.001457 mg/kg [Hg]; Effective 01/15/2015 - 01/15/2016
3) Contract Required Quantitation Limit (CRQL) = 0.1 mg/kg [Hg]
4) Method Control Limits: Calibration Stds ±30% difference; ICV/CCV ±15% of target; MS ±25% of target

TITLE ALS Salt Lake – EPA CLP Mercury Run Log

Project No. NA

Book No. 4723

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Workorder(s)	SDG	Analysis HBN	Raw Data File Name	Analysis Date	Start Time	End Time	Matrix Type	No. of samples	Initials	Comments
1508351	MX1M86	146837	CV2-15099	04/07/2015	10:55	11:39	Water	1	CH	PE
1508355	MX1M90	146838	CV2-15105	04/08/2015	11:50	12:07	Soil	1	CH	PE
1508355	MX1M90	146839	CV2-15099	04/07/2015	10:55	11:34	TCLP	1	CH	PE
1510008	MH0AF8	147114	CV2-15110	04/14/2015	16:15	16:42	Water	10	CH	None
1509906	MX1P28	147244	CV2-15115	04/15/2015	15:44	16:01	Water	1	CH	ISM02.2 PE
1509910	MX1P32	147555	CV2-15119	04/17/2015	13:40	13:57	Soil	1	CH	ISM02.2 PE
1509910	MX1P32	147784	CV2-15127	04/27/2015	1454	1519	Soil	1	AT	ISM02.2 PE
1510625	MX1P80	148140	CV2-15130	04/30/2015	17:06	17:23	Soil	1	CH	ISM01.3 PE
1510622	MX1P76	148221	CV2-15133	05/~~04~~/05/2015 CH 05/05/2015	10:15	10:32	Water	1	CH	ISM01.3 PE
1512055	MX1R04	148226	CV2-15134	05/05/2015	10:36	10:53	Water	1	CH	ISM02.2 PE
1512056	MX1R08	148491	CV2-15138	05/07/2015	15:09	15:38	Soil	1	CH	ISM02.2 PE Reanalyzed once for MS
1513418	MX1S53	149204	CV2-15151	05/20/2015	15:25	16:07	Soil	1	CH	ISM02.2 PE Dilution Required
1513993	51915	149546	CV2-15156a	05/27/2015	12:38	12:55	Water	1	CH	NA
1513412	MX1S49	149554	CV2-15155	05/27/2015	11:33	12:17	Water	1	CH	~~NA~~ ISM02.2 PE CH 06/01/2015
1513445	MX1S57	149548	CV2-15155	05/27/2015	11:33	12:17	TCLP	1	CH	ISM02.2 PE / 48X dilution
1514325	MF9L76	149911	CV2-15161	06/09/2015	11:18	11:47	Soil	12	CH	None
1515757	MH2TR0	150219	CV2-15166	06/09/2015	10:50	11:07	Soil	1	CH	None
1515388	MF9L98	150397	CV2-15167	06/11/2015	10:08	10:48	Soil	20	CH	None
1515559	MF9M21	150398	CV2-15168	06/11/2015	10:51	11:32	Soil	20	CH	None
1515392, 1515633	MF9M15	150465	CV2-15170a	06/12/2015	12:57	13:27	Soil	13	CH	None
1516259	MC0AP6	150982	CV2-15171a	06/16/2015	10:20	10:57	Water	15	CH	None
1515562	MF9M38	150995	CV2-15174	06/18/2015	11:11	11:32	Soil	5	CH	None
1515632	MF9M48	150996	CV2-15175a	06/18/2015	12:25	13:05	Soil	20	CH	None
1515745	MF9K00	151166	CV2-15181	06/23/2015	13:42	14:22	Soil	19	CH	None
1516249	MC0AX0	151400	CV2-15186	06/23/2015	10:29	11:09	Soil	19	CH	None
1516213	MC0B35	151401	CV2-15185	06/23/2015	10:05	10:23	Soil	2	CH	None
1516424	MF9K02	151594	CV2-15191	07/01/2015	12:13	12:43	Soil	13	CH	None
1516423	MF9K15	151598	CV2-15192	07/01/2015	12:48	13:19	Soil	13	CH	None

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Witnessed & Understood by me, | Date | Invented by: | Date

Recorded by:

ALS Reagent Report

ID Number: 21 Description: 12% Hydroxylamine Hydrochloride

Analyst: Christopher Hansen

Date Created: 03/27/2015 Expiration Date: 03/27/2016

Pipettes Used:

Balanced Used: 102887

Materials Used, Manufacturer, Lots, Amounts, Final Concentrations if applicable

240g hydroxylamine hydrochloride was dissolved into 2L ASTM type II water. Total of 8L (4 x 2L) was prepared.
Hydroxylamine Hydrochloride, Crystal: J.T. Baker batch #0000079919.

ALS Reagent Report

ID Number: 31 Description: 10% Stannous Chloride in 7% Hydrochloric Acid

Analyst: Shane Stewart

Date Created: 06/24/2015 Expiration Date: 06/24/2016

Pipettes Used: Acid Dispenser

Balanced Used: 102887

Materials Used, Manufacturer, Lots, Amounts, Final Concentrations if applicable

200g tin chloride dissolved in 140mL HCl and diluted to 2L with ASTM Type II water.
Tin(II) chloride dihydrate, reagent grade - Alfa Aesar - Lot: T22A037.
Hydrochloric acid - EMD OmniTrace - Lot: 54310.
5 x 2L bottles (10L) prepared.

ALS Reagent Report

ID Number: 30 Description: M-7500 CVAA Rinse Solution

Analyst: Christopher Hansen

Date Created: 06/18/2015 Expiration Date: 06/18/2016

Pipettes Used: Acid Dispenser | Grad. Flask

Balanced Used:

Materials Used, Manufacturer, Lots, Amounts, Final Concentrations if applicable

100mL of concentrated nitric acid and 100mL of concentrated hydrochloric acid was diluted to 2L with ASTM type II water. 12L (6 x 2L-bottles) was prepared. Nitric Acid - J.T. Baker Lot 104736. Hydrochloric Acid - EMD Lot 54310.