Analytical Data Package

Prepared by:

Pace Analytical Services

Pace Project No.: 40193697

Table Of Contents

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

September 10, 2019

Tyler Baker
Tennessee Valley Authority
Chickamauga Power Service Cent
4601 North Access Road, Bld. B
Chattanooga, TN 374153825

RE: Project: 426799 WATTS BAR FOSSIL PLANT
Pace Project No.: 40193697

Dear Tyler Baker:
Enclosed are the analytical results for sample(s) received by the laboratory on August 24, 2019. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Tod Noltemeyer

Tod Noltemeyer
tod.noltemeyer@pacelabs.com
(920)469-2436
Project Manager

Enclosures

cc: Jennifer Gable, Environmental Standards, Inc.
Roy Quinn, TVA

Pace Analytical Services, LLC
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CERTIFICATIONS

Project: 426799 WATTS BAR FOSSIL PLANT
Pace Project No.: 40193697

Green Bay Certification IDs

1241 Bellevue Street, Green Bay, WI 54302
Florida/NELAP Certification #: E87948
Illinois Certification #: 200050
Kentucky UST Certification #: 82
Louisiana Certification #: 04168
Minnesota Certification #: 055-999-334
New York Certification #: 12064
North Dakota Certification #: R-150
Virginia VELAP ID: 460263
South Carolina Certification #: 83006001
Texas Certification #: T104704529-14-1
Wisconsin Certification #: 405132750
Wisconsin DATCP Certification #: 105-444
USDA Soil Permit #: P330-16-00157
Federal Fish & Wildlife Permit #: LE51774A-0

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SAMPLE SUMMARY

Project: 426799 WATTS BAR FOSSIL PLANT
Pace Project No.: 40193697

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40193697001	**WBF-ACP-EB01-20190812**	Tissue	08/12/19 12:52	08/24/19 09:00

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SAMPLE ANALYTE COUNT

Project: 426799 WATTS BAR FOSSIL PLANT
Pace Project No.: 40193697

Lab ID	Sample ID	Method	Analysts	Analytes Reported
40193697001	**WBF-ACP-EB01-20190812**	EPA 6020	KXS	20
		EPA 7473	AJT	1

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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PROJECT NARRATIVE

Project: 426799 WATTS BAR FOSSIL PLANT
Pace Project No.: 40193697

Method: **EPA 6020**
Description: 6020 MET ICPMS
Client: TENNESSEE VALLEY AUTHORITY
Date: September 10, 2019

General Information:
1 sample was analyzed for EPA 6020. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 3050B with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 331833

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 40193369001

M0: Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.

- MSD (Lab ID: 1925396)
  - Calcium

Additional Comments:

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PROJECT NARRATIVE

Project: 426799 WATTS BAR FOSSIL PLANT
Pace Project No.: 40193697

Method: **EPA 7473**
Description: 7473 Mercury, Tissue
Client: TENNESSEE VALLEY AUTHORITY
Date: September 10, 2019

General Information:
1 sample was analyzed for EPA 7473. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: 426799 WATTS BAR FOSSIL PLANT
Pace Project No.: 40193697

Sample: WBF-ACP-EB01-20190812 **Lab ID: 40193697001** Collected: 08/12/19 12:52 Received: 08/24/19 09:00 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3050B								
Antimony	**<0.021**	mg/kg	0.099	0.021	1	08/27/19 08:01	08/31/19 06:59	7440-36-0	
Arsenic	**<0.030**	mg/kg	0.099	0.030	1	08/27/19 08:01	08/31/19 06:59	7440-38-2	
Barium	**<0.030**	mg/kg	0.099	0.030	1	08/27/19 08:01	08/31/19 06:59	7440-39-3	
Beryllium	**<0.033**	mg/kg	0.11	0.033	1	08/27/19 08:01	08/31/19 06:59	7440-41-7	
Boron	**<0.69**	mg/kg	2.3	0.69	1	08/27/19 08:01	08/31/19 06:59	7440-42-8	
Cadmium	**<0.011**	mg/kg	0.099	0.011	1	08/27/19 08:01	08/31/19 06:59	7440-43-9	
Calcium	**<25.1**	mg/kg	83.6	25.1	1	08/27/19 08:01	08/31/19 06:59	7440-70-2	
Chromium	**<0.087**	mg/kg	0.29	0.087	1	08/27/19 08:01	08/31/19 06:59	7440-47-3	
Cobalt	**<0.019**	mg/kg	0.099	0.019	1	08/27/19 08:01	08/31/19 06:59	7440-48-4	
Copper	**<0.28**	mg/kg	0.94	0.28	1	08/27/19 08:01	08/31/19 06:59	7440-50-8	
Lead	**<0.030**	mg/kg	0.099	0.030	1	08/27/19 08:01	08/31/19 06:59	7439-92-1	
Lithium	**<0.021**	mg/kg	0.099	0.021	1	08/27/19 08:01	08/31/19 06:59	7439-93-2	
Molybdenum	**<0.035**	mg/kg	0.12	0.035	1	08/27/19 08:01	08/31/19 06:59	7439-98-7	
Nickel	**<0.041**	mg/kg	0.14	0.041	1	08/27/19 08:01	08/31/19 06:59	7440-02-0	
Selenium	**<0.050**	mg/kg	0.17	0.050	1	08/27/19 08:01	08/31/19 06:59	7782-49-2	
Silver	**<0.011**	mg/kg	0.049	0.011	1	08/27/19 08:01	08/31/19 06:59	7440-22-4	
Strontium	**<0.16**	mg/kg	0.53	0.16	1	08/27/19 08:01	08/31/19 06:59	7440-24-6	
Thallium	**<0.013**	mg/kg	0.099	0.013	1	08/27/19 08:01	08/31/19 06:59	7440-28-0	
Vanadium	**<0.033**	mg/kg	0.11	0.033	1	08/27/19 08:01	08/31/19 06:59	7440-62-2	
Zinc	**<1.4**	mg/kg	4.6	1.4	1	08/27/19 08:01	08/31/19 06:59	7440-66-6	
7473 Mercury, Tissue	Analytical Method: EPA 7473								
Mercury	**<0.0075**	mg/kg	0.025	0.0075	1		09/04/19 12:08	7439-97-6	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 426799 WATTS BAR FOSSIL PLANT
Pace Project No.: 40193697

QC Batch: 332676 Analysis Method: EPA 7473
QC Batch Method: EPA 7473 Analysis Description: 7473 Mercury
Associated Lab Samples: 40193697001

METHOD BLANK: 1930604 Matrix: Tissue
Associated Lab Samples: 40193697001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/kg	0.012J	0.025	0.0076	09/04/19 08:33	

LABORATORY CONTROL SAMPLE: 1930605

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/kg	0.25	0.28	110	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1930606 1930607

Parameter	Units	40193368001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/kg	0.0084J	0.15	0.15	0.15	0.15	92	93	80-120	1	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 426799 WATTS BAR FOSSIL PLANT
Pace Project No.: 40193697

QC Batch: 331833
QC Batch Method: EPA 3050B
Analysis Method: EPA 6020
Analysis Description: 6020 MET TISSUE
Associated Lab Samples: 40193697001

METHOD BLANK: 1925391
Matrix: Tissue
Associated Lab Samples: 40193697001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/kg	<0.021	0.10	0.021	08/31/19 02:56	
Arsenic	mg/kg	<0.030	0.10	0.030	08/31/19 02:56	
Barium	mg/kg	<0.031	0.10	0.031	08/31/19 02:56	
Beryllium	mg/kg	<0.033	0.11	0.033	08/31/19 02:56	
Boron	mg/kg	<0.70	2.3	0.70	08/31/19 02:56	
Cadmium	mg/kg	<0.011	0.10	0.011	08/31/19 02:56	
Calcium	mg/kg	<25.4	84.7	25.4	08/31/19 02:56	
Chromium	mg/kg	<0.088	0.29	0.088	08/31/19 02:56	
Cobalt	mg/kg	<0.019	0.10	0.019	08/31/19 02:56	
Copper	mg/kg	<0.28	0.95	0.28	08/31/19 02:56	
Lead	mg/kg	<0.030	0.10	0.030	08/31/19 02:56	
Lithium	mg/kg	<0.021	0.10	0.021	08/31/19 02:56	
Molybdenum	mg/kg	<0.036	0.12	0.036	08/31/19 02:56	
Nickel	mg/kg	<0.041	0.14	0.041	08/31/19 02:56	
Selenium	mg/kg	<0.051	0.17	0.051	08/31/19 02:56	
Silver	mg/kg	<0.011	0.050	0.011	08/31/19 02:56	
Strontium	mg/kg	<0.16	0.54	0.16	08/31/19 02:56	
Thallium	mg/kg	<0.013	0.10	0.013	08/31/19 02:56	
Vanadium	mg/kg	<0.033	0.11	0.033	08/31/19 02:56	
Zinc	mg/kg	<1.4	4.7	1.4	08/31/19 02:56	

LABORATORY CONTROL SAMPLE: 1925393

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/kg	5	5.6	112	80-120	
Arsenic	mg/kg	5	5.4	108	80-120	
Barium	mg/kg	5	5.3	105	80-120	
Beryllium	mg/kg	5	4.8	95	80-120	
Boron	mg/kg	10	10	100	80-120	
Cadmium	mg/kg	5	5.3	106	80-120	
Calcium	mg/kg	250	280	112	80-120	
Chromium	mg/kg	5	5.2	104	80-120	
Cobalt	mg/kg	5	5.2	103	80-120	
Copper	mg/kg	5	5.2	104	80-120	
Lead	mg/kg	5	5.2	104	80-120	
Lithium	mg/kg	5	4.6	93	80-120	
Molybdenum	mg/kg	5	5.1	102	80-120	
Nickel	mg/kg	5	5.2	104	80-120	
Selenium	mg/kg	5	5.5	110	80-120	
Silver	mg/kg	2.5	2.3	94	80-120	

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QUALITY CONTROL DATA

Project: 426799 WATTS BAR FOSSIL PLANT
Pace Project No.: 40193697

LABORATORY CONTROL SAMPLE: 1925393

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Strontium	mg/kg	5	5.1	103	80-120	
Thallium	mg/kg	5	5.2	105	80-120	
Vanadium	mg/kg	5	5.3	106	80-120	
Zinc	mg/kg	20	21.5	108	80-120	

LABORATORY CONTROL SAMPLE: 1925394

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/kg	59.5	68.6	115	80-126	
Cadmium	mg/kg	42.3	41.3	98	80-120	
Chromium	mg/kg	2	0.66	34	13-93	
Cobalt	mg/kg	1.1	1.0	98	80-120	
Copper	mg/kg	497	455	91	77-120	
Lead	mg/kg	0.22	0.20	88	79-120	
Molybdenum	mg/kg	3.4	3.2	93	80-120	
Nickel	mg/kg	5.3	4.4	83	76-120	
Selenium	mg/kg	10.9	11.4	105	80-130	
Strontium	mg/kg	36.5	32.2	88	79-120	
Vanadium	mg/kg	9.1	9.2	101	80-120	
Zinc	mg/kg	136	134	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1925395 1925396

Parameter	Units	40193369001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	mg/kg	<0.021	5	5	5.6	5.6	112	113	75-125	0	20	
Arsenic	mg/kg	<0.030	5	5	5.3	5.3	105	106	75-125	0	20	
Barium	mg/kg	0.16	5	5	5.3	5.4	104	105	75-125	1	20	
Beryllium	mg/kg	<0.033	5	5	4.6	4.7	93	95	75-125	3	20	
Boron	mg/kg	<0.69	10	9.9	9.3	9.3	93	93	75-125	0	20	
Cadmium	mg/kg	0.17	5	5	5.5	5.5	107	107	75-125	0	20	
Calcium	mg/kg	324	249	248	618	672	118	140	75-125	8	20	M0
Chromium	mg/kg	0.11J	5	5	5.3	5.3	103	104	75-125	0	20	
Cobalt	mg/kg	0.52	5	5	5.6	5.7	102	104	75-125	1	20	
Copper	mg/kg	6.0	5	5	11.0	10.9	100	99	75-125	0	20	
Lead	mg/kg	<0.030	5	5	5.2	5.2	104	105	75-125	1	20	
Lithium	mg/kg	<0.021	5	5	4.5	4.5	89	91	75-125	2	20	
Molybdenum	mg/kg	0.10J	5	5	5.2	5.2	102	102	75-125	0	20	
Nickel	mg/kg	<0.041	5	5	5.2	5.2	103	104	75-125	0	20	
Selenium	mg/kg	0.84	5	5	6.2	6.2	107	109	75-125	1	20	
Silver	mg/kg	0.023J	2.5	2.5	2.4	2.4	94	94	75-125	0	20	
Strontium	mg/kg	0.25J	5	5	5.3	5.4	102	103	75-125	1	20	
Thallium	mg/kg	<0.013	5	5	5.2	5.2	104	106	75-125	1	20	
Vanadium	mg/kg	<0.033	5	5	5.3	5.2	106	105	75-125	2	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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(920)469-2436

QUALITY CONTROL DATA

Project: 426799 WATTS BAR FOSSIL PLANT
Pace Project No.: 40193697

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1925395 1925396

Parameter	Units	40193369001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Zinc	mg/kg	26.2	19.9	19.9	44.8	48.8	93	114	75-125	9	20	

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: 426799 WATTS BAR FOSSIL PLANT
Pace Project No.: 40193697

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

M0 Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.

Pace Analytical Services, LLC
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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 426799 WATTS BAR FOSSIL PLANT
Pace Project No.: 40193697

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40193697001	**WBF-ACP-EB01-20190812**	EPA 3050B	331833	EPA 6020	332056
40193697001	**WBF-ACP-EB01-20190812**	EPA 7473	332676		

40193697

TVA Environmental Investigations

Tennessee Valley Authority

Chain-of-Custody / Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed and accurate

COOLER No.:	1 of 1
COC No:	WBF_AC_20190812_1A
	1 of 1 Pages
Task Desc:	WBF_AC

Required Ship to Lab:	
Lab Name:	Pace Analytical Green Bay
Lab Address:	1241 Bellevue Street Suite 9 Green Bay, WI 54302
Lab Manager Contact Information	
Lab PM:	Tod Noltemeyer
Phone/Fax:	920-469-2436
Lab Email:	tod.noltemeyer@pacelabs.com

Required Project Information:			
Site ID #:	WATTS BAR FOSSIL PLANT		
Project #:	426799		
Site Address:	933 Old Ferry Road		
City:	Spring City	State, Zip:	TN, 37381
Site PM Name:	Roy Quinn		
Phone/Fax:	423-751-3753		
Site PM Email:	jrquinn@tva.gov		

Required Sampler Information	
Sampler: Tyler Baker	
Sampling Company: TVA	
Address: TVA Chickamauga Power Service Center, 4601 N. Access Road	
City/State: Chattanooga, TN	Phone: 423-876-6733
Sampling Team Number:	1
Send EDD/Hard Copy to:	tva-ei@envstd.com

Analysis Turnaround Time

☐ CALENDAR DAYS ☑ WORKING DAYS

TAT if different from Below _____

- ☐ 24 Hours
- ☐ 3 Business Days
- ☐ 5 Business Days
- ☑ 10 Business Days (Standard)

ITEMS #	SAMPLE ID Samples IDs MUST BE UNIQUE	SAMPLE LOCATION	Sample Depth: Depth Unit	Sample Depth: Feet: Start Depth	Sample Depth: Feet: End Depth	MATRIX CODE	G= GRAB C=COMP	SAMPLE TYPE	SAMPLE DATE	SAMPLE TIME	# OF CONTAINERS	Comments/ Lab Sample I.D.	MS/MSD	Analysis: WBF_BENTHIC_BLANKS_MFP	Preserve (see comments)	Filtered: N
1	WBF-ACP-EB01-20190812	NA		NA	NA	AQ	G	EB	8/12/2019	1252	1	001	☐	X		
2													☐			
3													☐			
4													☐			
5													☐			
6													☐			
7													☐			
8													☐			
9													☐			
10													☐			
11													☐			
12													☐			
13													☐			

Additional Comments/Special Instructions:

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
Tyler Baker / TVA	8-23-19	1920			
FedEx	08/24/19	0900	Pace	08/24/19	0900

SHIPPING METHOD:	SAMPLER NAME AND SIGNATURE
Fedex	Tyler Baker

Sample Receipt Conditions

☐Yes ☐No	☐Yes ☐No	☐Yes ☐No	☐Yes ☐No
☑Yes ☐No 1.5	☑Yes ☐No	☑Yes ☐No	☐Yes ☑No
☐Yes ☐No	☐Yes ☐No	☐Yes ☐No	☐Yes ☐No
☐Yes ☐No	☐Yes ☐No	☐Yes ☐No	☐Yes ☐No
Temperature in °C	Sample on Ice?	Sample Intact?	Trip Blank?

Form TVA 30067A

Sample Preservation Receipt Form

Pace Analytical Services, LLC
1241 Bellevue Street, Suite 9
Green Bay, WI 54302

Client Name: TN Valley Authority Project # 40193697

All containers needing preservation have been checked and noted below: ☑Yes ☐No ☐N/A Initial when completed: MSC Date/ Time:

Lab Lot# of pH paper: 10450891 Lab Std #ID of preservation (if pH adjusted):

	Glass							Plastic							Vials						Jars			General							
Pace Lab #	AG1U	AG1H	AG4S	AG4U	AG5U	AG2S	BG3U	BP1U	BP2N	BP2Z	BP3U	BP3B	BP3N	BP3S	DG9A	DG9T	VG9U	VG9H	VG9M	VG9D	JGFU	WGFU	WPFU	SP5T	ZPLC	GN	VOA Vials (>6mm) *	H2SO4 pH ≤2	NaOH+Zn Act pH ≥9	NaOH pH ≥12	HNO3 pH ≤2	pH after adjusted	Volume (mL)
001													1																	✓		2.5 / 5 / 10
002																																	2.5 / 5 / 10
003																																	2.5 / 5 / 10
004																																	2.5 / 5 / 10
005																																	2.5 / 5 / 10
006																																	2.5 / 5 / 10
007																																	2.5 / 5 / 10
008																																	2.5 / 5 / 10
009																																	2.5 / 5 / 10
010																																	2.5 / 5 / 10
011																																	2.5 / 5 / 10
012																																	2.5 / 5 / 10
013																																	2.5 / 5 / 10
014																																	2.5 / 5 / 10
015																																	2.5 / 5 / 10
016																																	2.5 / 5 / 10
017																																	2.5 / 5 / 10
018																																	2.5 / 5 / 10
019																																	2.5 / 5 / 10
020																																	2.5 / 5 / 10

MSC 05/24/19

Exceptions to preservation check: VOA, Coliform, TOC, TOX, TOH, O&G, WI DRO, Phenolics, Other: _____ Headspace in VOA Vials (>6mm) : ☐Yes ☐No ☑N/A ***If yes look in headspace column**

AG1U	1 liter amber glass	BP1U	1 liter plastic unpres	DG9A	40 mL amber ascorbic	JGFU	4 oz amber jar unpres
AG1H	1 liter amber glass HCL	BP2N	500 mL plastic HNO3	DG9T	40 mL amber Na Thio	WGFU	4 oz clear jar unpres
AG4S	125 mL amber glass H2SO4	BP2Z	500 mL plastic NaOH, Znact	VG9U	40 mL clear vial unpres	WPFU	4 oz plastic jar unpres
AG4U	120 mL amber glass unpres	BP3U	250 mL plastic unpres	VG9H	40 mL clear vial HCL		
AG5U	100 mL amber glass unpres	BP3B	250 mL plastic NaOH	VG9M	40 mL clear vial MeOH	SP5T	120 mL plastic Na Thiosulfate
AG2S	500 mL amber glass H2SO4	BP3N	250 mL plastic HNO3	VG9D	40 mL clear vial DI	ZPLC	ziploc bag
BG3U	250 mL clear glass unpres	BP3S	250 mL plastic H2SO4			GN:	

Pace Analytical™ 1241 Bellevue Street, Green Bay, WI 54302	Document Name: Sample Condition Upon Receipt (SCUR)	Document Revised: 25Apr2018
	Document No.: F-GB-C-031-Rev.07	Issuing Authority: Pace Green Bay Quality Office

Sample Condition Upon Receipt Form (SCUR)

Project #: WO# : 40193697

Client Name: T.N Valley Authority

Courier: ☐ CS Logistics ☑ Fed Ex ☐ Speedee ☐ UPS ☐ Waltco ☐ Client ☐ Pace Other: _____

Tracking #: 789346254731

Custody Seal on Cooler/Box Present: ☑ yes ☐ no Seals intact: ☑ yes ☐ no

Custody Seal on Samples Present: ☑ yes ☐ no Seals intact: ☑ yes ☐ no

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☑ None ☐ Other _____

Thermometer Used SR - 40 **Type of Ice:** (Wet) Blue Dry None ☑ Samples on ice, cooling process has begun

Cooler Temperature Uncorr: 1 /Corr: 1.5

Temp Blank Present: ☑ yes ☐ no **Biological Tissue is Frozen:** ☐ yes ☐ no

Temp should be above freezing to 6°C.
Biota Samples may be received at ≤ 0°C.

Person examining contents:
Date: 08/24/19
Initials: MSC

Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☑Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☑Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☑Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☑Yes ☐No	5.
- VOA Samples frozen upon receipt	☐Yes ☐No	Date/Time:
Short Hold Time Analysis (<72hr):	☐Yes ☑No	6.
Rush Turn Around Time Requested:	☐Yes ☑No	7.
Sufficient Volume: For Analysis: ☑Yes ☐No MS/MSD: ☐Yes ☐No ☑N/A		8.
Correct Containers Used:	☑Yes ☐No	9.
-Pace Containers Used:	☑Yes ☐No ☐N/A	
-Pace IR Containers Used:	☐Yes ☐No ☑N/A	
Containers Intact:	☑Yes ☐No	10. Broke Seal to PH. MSC 08/24/19
Filtered volume received for Dissolved tests	☐Yes ☐No ☑N/A	11.
Sample Labels match COC:	☑Yes ☐No ☐N/A	12.
-Includes date/time/ID/Analysis Matrix: W		
Trip Blank Present:	☐Yes ☐No ☑N/A	13.
Trip Blank Custody Seals Present	☐Yes ☐No ☑N/A	
Pace Trip Blank Lot # (if purchased):		

Client Notification/ Resolution: If checked, see attached form for additional comments ☐

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: RMF for TW **Date:** 08/24/19

CASE NARRATIVE - METALS ANALYSIS

Lab Report Number (SDG): 40193697
Client: TENNESSEE VALLEY AUTHORITY
Project Name: WATTS BAR FOSSIL PLANT
Project Number: 426799

1. RECEIPT

Samples were received on ice at 1.5°C.

2. HOLDING TIMES

A. Sample Preparation: All method required holding times were met.
B. Sample Analysis: All method required holding times were met.

3. METHOD

Preparation: SW846 3050B, 7473
Analysis: SW846 6020, 7473

4. PREPARATION

Sample preparation proceeded normally. Although the sample in this SDG was a blank consisting of water, the sample was prepared per the client's instructions as if it was a tissue sample.

5. ANALYSIS

A. Calibration:
1. **Initial verification:** All method acceptance criteria were met.
2. **Continuing verification:** All method acceptance criteria were met.
3. **Reporting limit verification (CRDL):** All method acceptance criteria were met. Due to software limitations, the percent recovery for Calcium and Strontium are based on the water reporting limits rather than the tissue reporting limits and appear to recover two (Ca) and five (Sr) times higher than the true value.

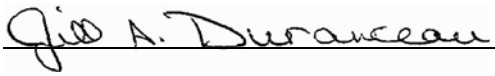
B. Blanks:
1. **Initial calibration:** All method acceptance criteria were met.
2. **Continuing calibration:** All method acceptance criteria were met.
3. **Method:** All project specific acceptance criteria were met. Mercury (7473) was detected in the method blank above the laboratory method detection limit (MDL) but below the laboratory reporting limit (PQL). The associated sample result was less than the MDL, therefore no data qualifier was needed for this occurrence.
4. **Chicken:** A chicken blank is prepared and analyzed with each sample batch to determine the background contamination levels of the chicken used for the laboratory control spike (LCS). The chicken blank is analyzed down to the laboratory MDL. Calcium, Copper, Selenium, and Zinc were detected at a level above the MDL in the chicken blank. The chicken blank results for these analytes were subtracted from the associated LCS results prior to calculating the percent recovery of the spike.

C. Spikes:
1. **Lab Control Spike (LCS):** The associated LCS met all in-house accuracy criteria.
2. **SRM:** A Standard Reference Material was analyzed with this analytical batch.
3. **Matrix Spike / Duplicate (MS/MSD):** A batch MS/MSD pair was analyzed with the 6020 and 7473 sample to cover QC requirements.

D. Sample Duplicates: Not applicable.
E. Internal Standards: All in-house acceptance criteria were met for the internal standards used for quantification.
F. ICPMS Interference Check Samples: All acceptance criteria were met.
G. Samples: Sample analyses proceeded normally.

H. **Dilutions:** None required for this SDG.
I. **Reanalysis:** None required for this SDG**.**
J. **Comments:** No additional comments are needed.

I certify that this data package is in compliance, with the terms and conditions agreed to by **Pace Analytical Services, LLC** and by the client, both technically and for completeness, except for the conditions detailed above. The Laboratory Manager or his designee, as verified by the following signature, has authorized release of the data contained in this completed data package:

Signed:  Date: 09/11/19

Name: Jill A Duranceau Position: Quality Assurance Auditor

SAMPLE NO.

WBF-ACP-EB01-20190812

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40193697 Contract: 426799 WATTS BAR FOSSIL

Lab Sample ID: 40193697001 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
7440-36-0	Antimony	<0.021	U	mg/kg	1	08/31/2019 06:59
7440-38-2	Arsenic	<0.030	U	mg/kg	1	08/31/2019 06:59
7440-39-3	Barium	<0.030	U	mg/kg	1	08/31/2019 06:59
7440-41-7	Beryllium	<0.033	U	mg/kg	1	08/31/2019 06:59
7440-42-8	Boron	<0.69	U	mg/kg	1	08/31/2019 06:59
7440-43-9	Cadmium	<0.011	U	mg/kg	1	08/31/2019 06:59
7440-70-2	Calcium	<25.1	U	mg/kg	1	08/31/2019 06:59
7440-47-3	Chromium	<0.087	U	mg/kg	1	08/31/2019 06:59
7440-48-4	Cobalt	<0.019	U	mg/kg	1	08/31/2019 06:59
7440-50-8	Copper	<0.28	U	mg/kg	1	08/31/2019 06:59
7439-92-1	Lead	<0.030	U	mg/kg	1	08/31/2019 06:59
7439-93-2	Lithium	<0.021	U	mg/kg	1	08/31/2019 06:59
7439-98-7	Molybdenum	<0.035	U	mg/kg	1	08/31/2019 06:59
7440-02-0	Nickel	<0.041	U	mg/kg	1	08/31/2019 06:59
7782-49-2	Selenium	<0.050	U	mg/kg	1	08/31/2019 06:59
7440-22-4	Silver	<0.011	U	mg/kg	1	08/31/2019 06:59
7440-24-6	Strontium	<0.16	U	mg/kg	1	08/31/2019 06:59
7440-28-0	Thallium	<0.013	U	mg/kg	1	08/31/2019 06:59
7440-62-2	Vanadium	<0.033	U	mg/kg	1	08/31/2019 06:59
7440-66-6	Zinc	<1.4	U	mg/kg	1	08/31/2019 06:59

FORM II INORGANIC-1

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Pace Analytical - Green Bay SDG No. : 40193697 Contract: 426799 WATTS BAR FOSSIL PLANT

Initial Calibration Verification Source: 233143

Continuing Calibration Verification Source: 233908

Concentration Units: ug/L Instrument ID: 40ICM3

	Initial Calibration Verification				Continuing Calibration Verification						
	08/31/2019 01:59				08/31/2019 02:42			08/31/2019 03:46			Control Limit
Analyte	True	Found	%R	Control Limit	True	Found	%R	True	Found	%R	
Antimony	110	114	103.2	90-110	100	103	102.6	100	103	103.2	90-110
Arsenic	110	108	98.6	90-110	100	103	103.0	100	103	102.7	90-110
Barium	110	110	99.9	90-110	100	101	101.4	100	103	102.8	90-110
Beryllium	110	112	101.4	90-110	100	96.6	96.6	100	95.7	95.7	90-110
Boron	110	112	102.0	90-110	100	96.2	96.2	100	94.4	94.4	90-110
Cadmium	110	113	102.4	90-110	100	103	102.8	100	103	102.7	90-110
Calcium	5500	5950	108.1	90-110	5000	5180	103.6	5000	5180	103.6	90-110
Chromium	110	112	101.6	90-110	100	103	102.6	100	102	102.2	90-110
Cobalt	110	110	99.5	90-110	100	102	102.2	100	102	102.5	90-110
Copper	110	110	100.0	90-110	100	103	102.6	100	104	103.9	90-110
Lead	110	111	100.5	90-110	100	103	102.9	100	103	102.8	90-110
Lithium	110	109	99.0	90-110	100	94.5	94.5	100	94.6	94.6	90-110
Molybdenum	110	104	94.1	90-110	100	102	102.4	100	103	102.6	90-110
Nickel	110	110	100.3	90-110	100	104	103.7	100	104	104.3	90-110
Selenium	110	112	101.4	90-110	100	102	102.0	100	100	100.4	90-110
Silver	55	56.1	102.0	90-110	50	51.8	103.6	50	52.1	104.1	90-110
Strontium	110	109	99.0	90-110	100	100	100.2	100	100	100.1	90-110
Thallium	110	111	101.2	90-110	100	105	105.1	100	105	105.4	90-110
Vanadium	110	112	101.5	90-110	100	102	102.0	100	102	101.8	90-110
Zinc	110	112	101.4	90-110	100	102	102.5	100	103	102.7	90-110

FORM II INORGANIC-2

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Pace Analytical - Green Bay SDG No. : 40193697 Contract: 426799 WATTS BAR FOSSIL PLANT

Initial Calibration Verification Source:

Continuing Calibration Verification Source: 233908

Concentration Units: ug/L Instrument ID: 40ICM3

	Continuing Calibration Verification									
	08/31/2019 05:12			08/31/2019 06:38			08/31/2019 07:21			Control Limit
Analyte	True	Found	%R	True	Found	%R	True	Found	%R	
Antimony	100	103	103.4	100	104	103.5	100	103	102.6	90-110
Arsenic	100	103	103.0	100	103	103.3	100	103	103.0	90-110
Barium	100	101	101.4	100	103	102.7	100	103	102.7	90-110
Beryllium	100	94.1	94.1	100	92.5	92.5	100	94.6	94.6	90-110
Boron	100	94.5	94.5	100	91.7	91.7	100	94.3	94.3	90-110
Cadmium	100	103	103.0	100	103	103.0	100	102	102.2	90-110
Calcium	5000	5210	104.1	5000	5400	108.0	5000	5320	106.3	90-110
Chromium	100	102	101.9	100	102	102.3	100	103	103.3	90-110
Cobalt	100	102	101.8	100	102	102.0	100	103	103.0	90-110
Copper	100	103	102.8	100	103	103.1	100	103	103.2	90-110
Lead	100	102	102.4	100	104	103.5	100	102	101.7	90-110
Lithium	100	91.0	91.0	100	90.4	90.4	100	91.6	91.6	90-110
Molybdenum	100	102	101.7	100	103	103.0	100	103	102.7	90-110
Nickel	100	103	102.8	100	104	103.7	100	104	104.1	90-110
Selenium	100	100	100.3	100	101	100.9	100	101	100.8	90-110
Silver	50	51.9	103.7	50	52.4	104.8	50	51.8	103.6	90-110
Strontium	100	99.4	99.4	100	99.2	99.2	100	99.6	99.6	90-110
Thallium	100	104	104.3	100	106	106.1	100	104	104.3	90-110
Vanadium	100	102	102.0	100	102	101.6	100	104	103.6	90-110
Zinc	100	102	101.7	100	101	101.2	100	100	100.2	90-110

FORM II INORGANIC-3

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Pace Analytical - Green Bay SDG No. : 40193697 Contract: 426799 WATTS BAR FOSSIL PLANT

Initial Calibration Verification Source:

Continuing Calibration Verification Source: 233908

Concentration Units: ug/L Instrument ID: 40ICM3

	Continuing Calibration Verification			
	08/31/2019 08:04			Control Limit
Analyte	True	Found	%R	
Antimony	100	103	102.8	90-110
Arsenic	100	103	103.0	90-110
Barium	100	102	101.9	90-110
Beryllium	100	92.6	92.6	90-110
Boron	100	91.6	91.6	90-110
Cadmium	100	103	102.7	90-110
Calcium	5000	5390	107.7	90-110
Chromium	100	103	102.8	90-110
Cobalt	100	103	102.7	90-110
Copper	100	103	103.0	90-110
Lead	100	102	102.2	90-110
Lithium	100	89.7	89.7	90-110
Molybdenum	100	102	102.5	90-110
Nickel	100	104	104.1	90-110
Selenium	100	99.6	99.6	90-110
Silver	50	51.8	103.6	90-110
Strontium	100	99.4	99.4	90-110
Thallium	100	104	103.6	90-110
Vanadium	100	103	102.8	90-110
Zinc	100	101	101.4	90-110

FORM II INORGANIC-1

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Pace Analytical - Green Bay SDG No. : 40193697 Contract: 426799 WATTS BAR FOSSIL PLANT

Initial Calibration Verification Source: 233143

Continuing Calibration Verification Source: 234062

Concentration Units: ug/L Instrument ID: 40ICM3

	Initial Calibration Verification				Continuing Calibration Verification						
	09/03/2019 15:32				09/03/2019 16:15			09/03/2019 16:58			Control Limit
Analyte	True	Found	%R	Control Limit	True	Found	%R	True	Found	%R	
Beryllium	110	118	107.3	90-110	100	98.9	98.9	100	95.3	95.3	90-110
Boron	110	117	106.6	90-110	100	96.8	96.8	100	94.5	94.5	90-110
Lithium	110	117	106.7	90-110	100	97.0	97.0	100	92.3	92.3	90-110

FORM II INORGANIC-2

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Pace Analytical - Green Bay SDG No. : 40193697 Contract: 426799 WATTS BAR FOSSIL PLANT

Initial Calibration Verification Source:

Continuing Calibration Verification Source: 234062

Concentration Units: ug/L Instrument ID: 40ICM3

	Continuing Calibration Verification			
	09/03/2019 17:41			Control Limit
Analyte	True	Found	%R	
Beryllium	100	94.5	94.5	90-110
Boron	100	93.9	93.9	90-110
Lithium	100	92.0	92.0	90-110

FORM II INORGANIC-1

CRDL CHECK STANDARD

Lab Name: Pace Analytical - Green Bay SDG No. : 40193697 Contract: 426799 WATTS BAR FOSSIL PLANT

CRDL Check Standard Source: 233903 Analysis Date/Time: 08/31/2019 02:14

Concentration Units: ug/L

Analyte	CRDL Check Standard			
	True	Found	%R	Control Limit %R
Antimony	1.0	1.0	100.9	70-130
Arsenic	1.0	0.99	98.9	70-130
Barium	1.0	0.96	95.7	70-130
Beryllium	1.0	0.97	96.9	70-130
Cadmium	1.0	0.99	99.3	70-130
Chromium	1.0	1.0	100.3	70-130
Cobalt	1.0	1.0	99.7	70-130
Copper	1.0	1.0	100.2	70-130
Lead	1.0	1.0	99.6	70-130
Lithium	1.0	0.96	96.0	70-130
Molybdenum	1.0	1.0	100.3	70-130
Nickel	1.0	0.99	99.0	70-130
Selenium	1.0	1.1	107.8	70-130
Silver	0.5	0.51	102.0	70-130
Thallium	1.0	1.1	105.6	70-130
Vanadium	1.0	0.98	98.0	70-130

FORM II INORGANIC-1

CRDL CHECK STANDARD

Lab Name: Pace Analytical - Green Bay SDG No. : 40193697 Contract: 426799 WATTS BAR FOSSIL PLANT

CRDL Check Standard Source: 233904 Analysis Date/Time: 08/31/2019 02:21

Concentration Units: ug/L

Analyte	CRDL Check Standard			
	True	Found	%R	Control Limit %R
Boron	5.0	5.8	116.2	70-130
Calcium	250	510	203.9	70-130
Strontium	1.0	5.0	497.4	70-130
Zinc	5.0	4.9	98.6	70-130

FORM II INORGANIC-1

CRDL CHECK STANDARD

Lab Name: Pace Analytical - Green Bay SDG No. : 40193697 Contract: 426799 WATTS BAR FOSSIL PLANT

CRDL Check Standard Source: 233903 Analysis Date/Time: 08/31/2019 07:35

Concentration Units: ug/L

Analyte	CRDL Check Standard			
	True	Found	%R	Control Limit %R
Antimony	1.0	0.97	96.9	70-130
Arsenic	1.0	1.1	106.6	70-130
Barium	1.0	0.90	90.2	70-130
Beryllium	1.0	0.94	94.3	70-130
Cadmium	1.0	1.0	100.8	70-130
Chromium	1.0	0.97	97.4	70-130
Cobalt	1.0	0.95	95.3	70-130
Copper	1.0	1.0	102.1	70-130
Lead	1.0	0.98	97.9	70-130
Lithium	1.0	0.86	86.1	70-130
Molybdenum	1.0	0.99	99.4	70-130
Nickel	1.0	1.0	100.0	70-130
Selenium	1.0	0.99	99.3	70-130
Silver	0.5	0.50	100.6	70-130
Thallium	1.0	0.99	99.1	70-130
Vanadium	1.0	0.92	91.7	70-130

FORM II INORGANIC-1

CRDL CHECK STANDARD

Lab Name: Pace Analytical - Green Bay SDG No. : 40193697 Contract: 426799 WATTS BAR FOSSIL PLANT

CRDL Check Standard Source: 233904 Analysis Date/Time: 08/31/2019 07:42

Concentration Units: ug/L

Analyte	CRDL Check Standard			
	True	Found	%R	Control Limit %R
Boron	5.0	4.2	84.5	70-130
Calcium	250	540	216.1	70-130
Strontium	1.0	4.9	485.9	70-130
Zinc	5.0	4.7	93.0	70-130

FORM II INORGANIC-1

CRDL CHECK STANDARD

Lab Name: Pace Analytical - Green Bay SDG No. : 40193697 Contract: 426799 WATTS BAR FOSSIL PLANT

CRDL Check Standard Source: 234057 Analysis Date/Time: 09/03/2019 15:47

Concentration Units: ug/L

Analyte	CRDL Check Standard			
	True	Found	%R	Control Limit %R
Beryllium	1.0	1.0	104.8	70-130
Lithium	1.0	1.0	104.7	70-130

FORM II INORGANIC-1

CRDL CHECK STANDARD

Lab Name: Pace Analytical - Green Bay SDG No. : 40193697 Contract: 426799 WATTS BAR FOSSIL PLANT

CRDL Check Standard Source: 234058 Analysis Date/Time: 09/03/2019 15:54

Concentration Units: ug/L

Analyte	CRDL Check Standard			
	True	Found	%R	Control Limit %R
Boron	5.0	5.4	108.6	70-130

FORM II INORGANIC-1

CRDL CHECK STANDARD

Lab Name: Pace Analytical - Green Bay SDG No. : 40193697 Contract: 426799 WATTS BAR FOSSIL PLANT

CRDL Check Standard Source: 234057 Analysis Date/Time: 09/03/2019 17:12

Concentration Units: ug/L

Analyte	CRDL Check Standard			
	True	Found	%R	Control Limit %R
Beryllium	1.0	0.98	98.3	70-130
Lithium	1.0	0.95	94.6	70-130

FORM II INORGANIC-1

CRDL CHECK STANDARD

Lab Name: Pace Analytical - Green Bay SDG No. : 40193697 Contract: 426799 WATTS BAR FOSSIL PLANT

CRDL Check Standard Source: 234058 Analysis Date/Time: 09/03/2019 17:19

Concentration Units: ug/L

Analyte	CRDL Check Standard			
	True	Found	%R	Control Limit %R
Boron	5.0	4.8	95.5	70-130

FORM III INORGANIC-1

BLANKS

Lab Name: Pace Analytical - Green Bay SDG No. : 40193697 Contract : 426799 WATTS BAR FOSSIL PLANT

Method Blank Matrix: Tissue Instrument ID: 40ICM3

Method Blank Concentration Units: mg/kg

Analyte	Initial Calibration Blank (ug/L)		Continuing Calibration Blank (ug/L)						Method Blank	
	08/31/2019 02:06	C	08/31/2019 02:49	C	08/31/2019 03:54	C	08/31/2019 05:19	C	1925391	C
Antimony	0.17	J	0.15	U	0.15	U	0.15	U	<0.021	U
Arsenic	0.28	U	0.28	U	0.28	U	0.28	U	<0.030	U
Barium	1.5	U	1.5	U	1.5	U	1.5	U	<0.031	U
Beryllium	0.24	J	0.18	U	0.18	U	0.18	U	<0.033	U
Boron	3.3	U	3.3	U	3.3	U	3.3	U	<0.70	U
Cadmium	0.15	U	0.15	U	0.15	U	0.15	U	<0.011	U
Calcium	69.8	U	69.8	U	69.8	U	69.8	U	<25.4	U
Chromium	1.0	U	1.0	U	1.0	U	1.0	U	<0.088	U
Cobalt	0.15	J	0.12	U	0.12	U	0.12	U	<0.019	U
Copper	1.1	U	1.1	U	1.1	U	1.1	U	<0.28	U
Lead	0.24	U	0.24	U	0.24	U	0.24	U	<0.030	U
Lithium	0.27	J	0.19	U	0.19	U	0.19	U	<0.021	U
Molybdenum	0.44	U	0.44	U	0.44	U	0.44	U	<0.036	U
Nickel	0.40	U	0.40	U	0.40	U	0.40	U	<0.041	U
Selenium	0.32	U	0.32	U	0.32	U	0.32	U	<0.051	U
Silver	0.10	U	0.10	U	0.10	U	0.10	U	<0.011	U
Strontium	0.78	U	0.78	U	0.78	U	0.78	U	<0.16	U
Thallium	0.26	J	0.14	U	0.14	U	0.14	U	<0.013	U
Vanadium	0.32	U	0.32	U	0.32	U	0.32	U	<0.033	U
Zinc	4.6	U	4.6	U	4.6	U	4.6	U	<1.4	U

FORM III INORGANIC-2

BLANKS

Lab Name: Pace Analytical - Green Bay SDG No. : 40193697 Contract : 426799 WATTS BAR FOSSIL PLANT

Method Blank Matrix: Tissue Instrument ID: 40ICM3

Method Blank Concentration Units: mg/kg

Analyte	Initial Calibration Blank		Continuing Calibration Blank (ug/L)						Tissue Blank	
		C	08/31/2019 06:45	C	08/31/2019 07:28	C	08/31/2019 08:11	C	1925392	C
Antimony			0.15	U	0.15	U	0.15	U	<0.021	U
Arsenic			0.28	U	0.28	U	0.28	U	<0.030	U
Barium			1.5	U	1.5	U	1.5	U	<0.031	U
Beryllium			0.18	U	0.18	U	0.18	U	<0.033	U
Boron			3.3	U	3.3	U	3.3	U	<0.70	U
Cadmium			0.15	U	0.15	U	0.15	U	<0.011	U
Calcium			69.8	U	69.8	U	69.8	U	41.6	J
Chromium			1.0	U	1.0	U	1.0	U	<0.088	U
Cobalt			0.12	U	0.12	U	0.12	U	<0.019	U
Copper			1.1	U	1.1	U	1.1	U	0.30	J
Lead			0.24	U	0.24	U	0.24	U	<0.030	U
Lithium			0.19	U	0.19	U	0.19	U	<0.021	U
Molybdenum			0.44	U	0.44	U	0.44	U	<0.036	U
Nickel			0.40	U	0.40	U	0.40	U	<0.041	U
Selenium			0.32	U	0.32	U	0.32	U	0.12	J
Silver			0.10	U	0.10	U	0.10	U	<0.011	U
Strontium			0.78	U	0.78	U	0.78	U	<0.16	U
Thallium			0.14	U	0.14	U	0.14	U	<0.013	U
Vanadium			0.32	U	0.32	U	0.32	U	<0.033	U
Zinc			4.6	U	4.6	U	4.6	U	6.1	

FORM III INORGANIC-1

BLANKS

Lab Name: Pace Analytical - Green Bay SDG No. : 40193697 Contract : 426799 WATTS BAR FOSSIL PLANT

Method Blank Matrix: Instrument ID: 40ICM3

Method Blank Concentration Units:

Analyte	Initial Calibration Blank (ug/L)		Continuing Calibration Blank (ug/L)					
	09/03/2019 15:40	C	09/03/2019 16:22	C	09/03/2019 17:05	C	09/03/2019 17:48	C
Beryllium	0.18	U	0.18	U	0.18	U	0.18	U
Boron	3.3	U	3.3	U	3.3	U	3.3	U
Lithium	0.19	U	0.19	U	0.19	U	0.19	U

FORM IV INORGANIC-1
INTERFERENCE CHECK SAMPLE

Lab Name: Pace Analytical - Green Bay SDG No. : 40193697 Contract: 426799 WATTS BAR FOSSIL PLANT

Instrument ID: 40ICM3 Solution A Run Date: 08/31/2019 02:28

ICS Source: 233407,233596 Solution AB Run Date: 08/31/2019 02:35

Concentration Units: ug/L

Analyte	True		Found				
	Sol. A	Sol. AB	Sol. A	%R	Sol. AB	%R	Limits
Aluminum	50000	50000	51010	102	49570	99.1	80-120
Antimony		100	0.042		102.7	102.7	80-120
Arsenic		100	0.048		107.8	107.8	80-120
Barium		100	-0.009		102.5	102.5	80-120
Beryllium		100	-0.019		96.01	96	80-120
Boron		100	0.561		96.94	96.9	80-120
Cadmium		100	0.009		101.8	101.8	80-120
Calcium	50000	50000	54160	108.3	53440	106.9	80-120
Chromium		100	0.102		104.1	104.1	80-120
Cobalt		100	-0.03		103.8	103.8	80-120
Copper		100	0.254		102.8	102.8	80-120
Iron	50000	50000	53510	107	51670	103.3	80-120
Lead		100	-0.005		103.2	103.2	80-120
Lithium		100	0.193		94.96	95	80-120
Magnesium	50000	50000	52190	104.4	50990	102	80-120
Molybdenum	1000	1100	1077	107.7	1172	106.5	80-120
Nickel		100	0.05		104	104	80-120
Phosphorus	50000	55000	55620	111.2	58690	106.7	80-120
Potassium	50000	50000	53530	107.1	51570	103.1	80-120
Selenium		100	0.011		104.4	104.4	80-120
Silver		50	-0.027		51.09	102.2	80-120
Sodium	50000	50000	54730	109.5	52720	105.4	80-120
Strontium		100	0.53		103.1	103.1	80-120
Thallium		100	-0.029		106.7	106.7	80-120
Titanium	1000	1100	1060	106	1139	103.5	80-120
Vanadium		100	-0.055		105.3	105.3	80-120
Zinc		100	-0.013		106.2	106.2	80-120

FORM IV INORGANIC-2
INTERFERENCE CHECK SAMPLE

Lab Name: Pace Analytical - Green Bay SDG No. : 40193697 Contract: 426799 WATTS BAR FOSSIL PLANT

Instrument ID: 40ICM3 Solution A Run Date: 08/31/2019 07:49

ICS Source: 233407,233596 Solution AB Run Date: 08/31/2019 07:57

Concentration Units: ug/L

Analyte	True		Found				
	Sol. A	Sol. AB	Sol. A	%R	Sol. AB	%R	Limits
Aluminum	50000	50000	50710	101.4	48860	97.7	80-120
Antimony		100	0.019		103	103	80-120
Arsenic		100	0.04		109	109	80-120
Barium		100	-0.037		100.7	100.7	80-120
Beryllium		100	-0.066		91.69	91.7	80-120
Boron		100	0.785		90.53	90.5	80-120
Cadmium		100	-0.024		101.8	101.8	80-120
Calcium	50000	50000	52970	105.9	52770	105.5	80-120
Chromium		100	0.059		103.6	103.6	80-120
Cobalt		100	-0.068		103.1	103.1	80-120
Copper		100	0.159		102.8	102.8	80-120
Iron	50000	50000	54890	109.8	53530	107.1	80-120
Lead		100	-0.031		102.1	102.1	80-120
Lithium		100	0.153		88.8	88.8	80-120
Magnesium	50000	50000	51160	102.3	50360	100.7	80-120
Molybdenum	1000	1100	1067	106.7	1176	106.9	80-120
Nickel		100	-0.058		103.4	103.4	80-120
Phosphorus	50000	55000	55700	111.4	59000	107.3	80-120
Potassium	50000	50000	55400	110.8	53530	107.1	80-120
Selenium		100	0.029		107	107	80-120
Silver		50	-0.036		49.79	99.6	80-120
Sodium	50000	50000	55660	111.3	54210	108.4	80-120
Strontium		100	0.463		101.7	101.7	80-120
Thallium		100	-0.077		105.7	105.7	80-120
Titanium	1000	1100	1045	104.5	1146	104.2	80-120
Vanadium		100	-0.055		104.3	104.3	80-120
Zinc		100	-0.37		105.7	105.7	80-120

FORM IV INORGANIC-1
INTERFERENCE CHECK SAMPLE

Lab Name: Pace Analytical - Green Bay SDG No. : 40193697 Contract: 426799 WATTS BAR FOSSIL PLANT

Instrument ID: 40ICM3 Solution A Run Date: 09/03/2019 16:01

ICS Source: 234063,234064 Solution AB Run Date: 09/03/2019 16:08

Concentration Units: ug/L

Analyte	True		Found				
	Sol. A	Sol. AB	Sol. A	%R	Sol. AB	%R	Limits
Aluminum	50000	50000	51250	102.5	49560	99.1	80-120
Antimony		100	0.088		103.8	103.8	80-120
Arsenic		100	0.084		104.5	104.5	80-120
Barium		100	0.093		101.6	101.6	80-120
Beryllium		100	0.013		101	101	80-120
Boron		100	0.78		98.88	98.9	80-120
Cadmium		100	0.099		102.7	102.7	80-120
Calcium	50000	50000	53870	107.7	53470	106.9	80-120
Chromium		100	-0.015		103.7	103.7	80-120
Cobalt		100	-0.002		101.9	101.9	80-120
Copper		100	0.235		99.69	99.7	80-120
Iron	50000	50000	54830	109.7	53200	106.4	80-120
Lead		100	0.039		100.9	100.9	80-120
Lithium		100	0.261		98.59	98.6	80-120
Magnesium	50000	50000	50830	101.7	50330	100.7	80-120
Molybdenum	1000	1100	1072	107.2	1175	106.8	80-120
Nickel		100	-0.001		102.6	102.6	80-120
Phosphorus	50000	55000	55460	110.9	58880	107.1	80-120
Potassium	50000	50000	54420	108.8	53130	106.3	80-120
Selenium		100	-0.064		109	109	80-120
Silver		50	0.001		49.71	99.4	80-120
Sodium	50000	50000	53760	107.5	52600	105.2	80-120
Strontium		100	0.569		104.3	104.3	80-120
Thallium		100	0.014		101.5	101.5	80-120
Titanium	1000	1100	1057	105.7	1148	104.4	80-120
Vanadium		100	-0.061		104	104	80-120
Zinc		100	0.008		104.7	104.7	80-120

FORM IV INORGANIC-2
INTERFERENCE CHECK SAMPLE

Lab Name: Pace Analytical - Green Bay SDG No. : 40193697 Contract: 426799 WATTS BAR FOSSIL PLANT

Instrument ID: 40ICM3 Solution A Run Date: 09/03/2019 17:27

ICS Source: 234063,234064 Solution AB Run Date: 09/03/2019 17:34

Concentration Units: ug/L

Analyte	True		Found				
	Sol. A	Sol. AB	Sol. A	%R	Sol. AB	%R	Limits
Aluminum	50000	50000	50200	100.4	49190	98.4	80-120
Antimony		100	0.071		104	104	80-120
Arsenic		100	0.059		104.4	104.4	80-120
Barium		100	0.09		100.4	100.4	80-120
Beryllium		100	0.008		94.46	94.5	80-120
Boron		100	0.793		96.45	96.5	80-120
Cadmium		100	0.084		102.4	102.4	80-120
Calcium	50000	50000	53260	106.5	52880	105.8	80-120
Chromium		100	-0.002		103.7	103.7	80-120
Cobalt		100	0.001		102.7	102.7	80-120
Copper		100	0.221		100.3	100.3	80-120
Iron	50000	50000	54230	108.5	53500	107	80-120
Lead		100	0.034		100.7	100.7	80-120
Lithium		100	0.253		92.58	92.6	80-120
Magnesium	50000	50000	50720	101.4	50690	101.4	80-120
Molybdenum	1000	1100	1070	107	1179	107.2	80-120
Nickel		100	-0.006		102.7	102.7	80-120
Phosphorus	50000	55000	54220	108.4	58450	106.3	80-120
Potassium	50000	50000	54150	108.3	53670	107.3	80-120
Selenium		100	-0.114		106.3	106.3	80-120
Silver		50	-0.003		49.91	99.8	80-120
Sodium	50000	50000	53970	107.9	53640	107.3	80-120
Strontium		100	0.527		102.4	102.4	80-120
Thallium		100	0.001		100.8	100.8	80-120
Titanium	1000	1100	1036	103.6	1136	103.3	80-120
Vanadium		100	-0.124		103.7	103.7	80-120
Zinc		100	0.152		105.5	105.5	80-120

SAMPLE NO.

1925395MS

FORM V INORGANIC-1

MATRIX SPIKE SAMPLE RECOVERY

Lab Name: Pace Analytical - Green Bay SDG No. : 40193697 Contract: 426799 WATTS BAR FOSSIL

Matrix: Tissue Basis: Wet Parent Sample ID: 40193369001

Percent Moisture:

Analyte	Units	Control Limit %R	Spiked Sample Result (SSR)	Sample Result (SR)	Spike Added (SA)	%R
Antimony	mg/kg	75-125	5.6	<0.021	5.0	112
Arsenic	mg/kg	75-125	5.3	<0.030	5.0	105
Barium	mg/kg	75-125	5.3	0.16	5.0	104
Beryllium	mg/kg	75-125	4.6	<0.033	5.0	93
Boron	mg/kg	75-125	9.3	<0.69	10.0	93
Cadmium	mg/kg	75-125	5.5	0.17	5.0	107
Calcium	mg/kg	75-125	618	324	249	118
Chromium	mg/kg	75-125	5.3	0.11J	5.0	103
Cobalt	mg/kg	75-125	5.6	0.52	5.0	102
Copper	mg/kg	75-125	11.0	6.0	5.0	100
Lead	mg/kg	75-125	5.2	<0.030	5.0	104
Lithium	mg/kg	75-125	4.5	<0.021	5.0	89
Molybdenum	mg/kg	75-125	5.2	0.10J	5.0	102
Nickel	mg/kg	75-125	5.2	<0.041	5.0	103
Selenium	mg/kg	75-125	6.2	0.84	5.0	107
Silver	mg/kg	75-125	2.4	0.023J	2.5	94
Strontium	mg/kg	75-125	5.3	0.25J	5.0	102
Thallium	mg/kg	75-125	5.2	<0.013	5.0	104
Vanadium	mg/kg	75-125	5.3	<0.033	5.0	106
Zinc	mg/kg	75-125	44.8	26.2	19.9	93

SAMPLE NO.

1925396MSD

FORM V INORGANIC-2

MATRIX SPIKE SAMPLE RECOVERY

Lab Name: Pace Analytical - Green Bay SDG No. : 40193697 Contract: 426799 WATTS BAR FOSSIL

Matrix: Tissue Basis: Wet Parent Sample ID: 40193369001

Percent Moisture:

Analyte	Units	Control Limit %R	Spiked Sample Result (SSR)	Sample Result (SR)	Spike Added (SA)	%R
Antimony	mg/kg	75-125	5.6	<0.021	5.0	113
Arsenic	mg/kg	75-125	5.3	<0.030	5.0	106
Barium	mg/kg	75-125	5.4	0.16	5.0	105
Beryllium	mg/kg	75-125	4.7	<0.033	5.0	95
Boron	mg/kg	75-125	9.3	<0.69	9.9	93
Cadmium	mg/kg	75-125	5.5	0.17	5.0	107
Calcium	mg/kg	75-125	672	324	248	140*
Chromium	mg/kg	75-125	5.3	0.11J	5.0	104
Cobalt	mg/kg	75-125	5.7	0.52	5.0	104
Copper	mg/kg	75-125	10.9	6.0	5.0	99
Lead	mg/kg	75-125	5.2	<0.030	5.0	105
Lithium	mg/kg	75-125	4.5	<0.021	5.0	91
Molybdenum	mg/kg	75-125	5.2	0.10J	5.0	102
Nickel	mg/kg	75-125	5.2	<0.041	5.0	104
Selenium	mg/kg	75-125	6.2	0.84	5.0	109
Silver	mg/kg	75-125	2.4	0.023J	2.5	94
Strontium	mg/kg	75-125	5.4	0.25J	5.0	103
Thallium	mg/kg	75-125	5.2	<0.013	5.0	106
Vanadium	mg/kg	75-125	5.2	<0.033	5.0	105
Zinc	mg/kg	75-125	48.8	26.2	19.9	114

* Spike Recovery outside QC Limits

SAMPLE NO.

1926315PDS

FORM V INORGANIC-1

POST-DIGESTION SPIKE SAMPLE RECOVERY

Lab Name: Pace Analytical - Green Bay SDG No. : 40193697 Contract: 426799 WATTS BAR FOSSIL PLANT

Matrix: Tissue Parent Sample ID: 40193369001

Analyte	Units	Control Limit %R	DF	Spiked Sample Result (SSR)	DF	Sample Result (SR)	Spike Added (SA)	%R
Antimony	ug/L	80-120	1	53.0	1	0.21U	50	106.0
Arsenic	ug/L	80-120	1	51.7	1	0.30U	50	103.3
Barium	ug/L	80-120	1	51.4	1	1.6	50	99.7
Beryllium	ug/L	80-120	1	45.9	1	0.33U	50	91.8
Boron	ug/L	80-120	1	92.7	1	7.0U	100	92.7
Cadmium	ug/L	80-120	1	52.6	1	1.7	50	101.7
Calcium	ug/L	80-120	1	5680	1	3260	2500	96.8
Chromium	ug/L	80-120	1	50.9	1	1.2J	50	99.6
Cobalt	ug/L	80-120	1	55.1	1	5.2	50	99.7
Copper	ug/L	80-120	1	108	1	60.6	50	95.8
Lead	ug/L	80-120	1	49.8	1	0.30U	50	99.7
Lithium	ug/L	80-120	1	43.8	1	0.21U	50	87.5
Molybdenum	ug/L	80-120	1	48.6	1	1.0J	50	95.3
Nickel	ug/L	80-120	1	50.2	1	0.41U	50	100.4
Selenium	ug/L	80-120	1	62.2	1	8.4	50	107.7
Silver	ug/L	80-120	1	22.4	1	0.23J	25	88.7
Strontium	ug/L	80-120	1	51.2	1	2.5J	50	97.3
Thallium	ug/L	80-120	1	50.4	1	0.13U	50	100.7
Vanadium	ug/L	80-120	1	51.3	1	0.33U	50	102.5
Zinc	ug/L	80-120	1	467	1	264	200	101.8

SAMPLE NO.

1925396MSD

FORM VI INORGANIC-1
DUPLICATES

Lab Name: Pace Analytical - Green Bay SDG No. : 40193697 Contract: 426799 WATTS BAR FOSSIL

Matrix: Tissue Concentration Units: mg/kg

Percent Moisture: Basis: Wet

Analyte	Control Limit	Sample	Duplicate	RPD
Antimony	20	5.6	5.6	0
Arsenic	20	5.3	5.3	0
Barium	20	5.3	5.4	1
Beryllium	20	4.6	4.7	3
Boron	20	9.3	9.3	0
Cadmium	20	5.5	5.5	0
Calcium	20	618	672	8
Chromium	20	5.3	5.3	0
Cobalt	20	5.6	5.7	1
Copper	20	11.0	10.9	0
Lead	20	5.2	5.2	1
Lithium	20	4.5	4.5	2
Molybdenum	20	5.2	5.2	0
Nickel	20	5.2	5.2	0
Selenium	20	6.2	6.2	1
Silver	20	2.4	2.4	0
Strontium	20	5.3	5.4	1
Thallium	20	5.2	5.2	1
Vanadium	20	5.3	5.2	2
Zinc	20	44.8	48.8	9

SAMPLE NO.

1925393LCS

FORM VII INORGANIC-1
LABORATORY CONTROL SAMPLE

Lab Name: Pace Analytical - Green Bay SDG No. : 40193697 Contract: 426799 WATTS BAR FOSSIL

Matrix: Tissue

Analyte	Units	True	Found	%R	Limits	
Antimony	mg/kg	5.0	5.6	112	80	120
Arsenic	mg/kg	5.0	5.4	108	80	120
Barium	mg/kg	5.0	5.3	105	80	120
Beryllium	mg/kg	5.0	4.8	95	80	120
Boron	mg/kg	10.0	10	100	80	120
Cadmium	mg/kg	5.0	5.3	106	80	120
Calcium	mg/kg	250	280	112	80	120
Chromium	mg/kg	5.0	5.2	104	80	120
Cobalt	mg/kg	5.0	5.2	103	80	120
Copper	mg/kg	5.0	5.2	104	80	120
Lead	mg/kg	5.0	5.2	104	80	120
Lithium	mg/kg	5.0	4.6	93	80	120
Molybdenum	mg/kg	5.0	5.1	102	80	120
Nickel	mg/kg	5.0	5.2	104	80	120
Selenium	mg/kg	5.0	5.5	110	80	120
Silver	mg/kg	2.5	2.3	94	80	120
Strontium	mg/kg	5.0	5.1	103	80	120
Thallium	mg/kg	5.0	5.2	105	80	120
Vanadium	mg/kg	5.0	5.3	106	80	120
Zinc	mg/kg	20.0	21.5	108	80	120

SAMPLE NO.

1925394SRM

FORM VII INORGANIC-2
LABORATORY CONTROL SAMPLE

Lab Name: Pace Analytical - Green Bay SDG No. : 40193697 Contract: 426799 WATTS BAR FOSSIL

Matrix: Tissue

Analyte	Units	True	Found	%R	Limits	
Arsenic	mg/kg	59.5	68.6	115	80	126
Cadmium	mg/kg	42.3	41.3	98	80	120
Chromium	mg/kg	2.0	0.66	34	13	93
Cobalt	mg/kg	1.1	1.0	98	80	120
Copper	mg/kg	497	455	91	77	120
Lead	mg/kg	0.22	0.20	88	79	120
Molybdenum	mg/kg	3.4	3.2	93	80	120
Nickel	mg/kg	5.3	4.4	83	76	120
Selenium	mg/kg	10.9	11.4	105	80	130
Strontium	mg/kg	36.5	32.2	88	79	120
Vanadium	mg/kg	9.1	9.2	101	80	120
Zinc	mg/kg	136	134	99	80	120

SAMPLE NO.

1926316SD

FORM VIII INORGANIC-1
SERIAL DILUTIONS

Lab Name: Pace Analytical - Green Bay SDG No. : 40193697 Contract: 426799 WATTS BAR FOSSIL PLANT

Matrix: Tissue Parent Sample ID: 40193369002

Analyte	Units	Initial Sample Result	Serial Dilution Result	% Difference	Control Limit %D
Antimony	ug/L	0.21U	1.0U		10
Arsenic	ug/L	0.30U	1.5U		10
Barium	ug/L	1.9	1.5U		10
Beryllium	ug/L	0.33U	1.7U		10
Boron	ug/L	7.0U	34.9U		10
Cadmium	ug/L	2.3	1.9J	15.7*	10
Calcium	ug/L	3240	3200J	1.4	10
Chromium	ug/L	32.6	33.6	3.1	10
Cobalt	ug/L	2.9	2.6J	11.4*	10
Copper	ug/L	62.9	63.3	0.7	10
Lead	ug/L	0.30U	1.5U		10
Lithium	ug/L	0.21U	1.1U		10
Molybdenum	ug/L	0.98J	1.8U		10
Nickel	ug/L	0.49J	2.1U		10
Selenium	ug/L	9.3	9.0	2.5	10
Silver	ug/L	0.22J	0.56U		10
Strontium	ug/L	2.1J	8.0U		10
Thallium	ug/L	0.13U	0.65U		10
Vanadium	ug/L	0.33U	1.7U		10
Zinc	ug/L	246	244	0.9	10

* Indicates that the % Difference exceeds the control limit.
No difference is calculated if either result is a non-detect.

FORM IX INORGANIC-1
INSTRUMENT DETECTION LIMITS

Lab Name: Pace Analytical - Green Bay SDG No. : 40193697 Contract: 426799 WATTS BAR FOSSIL PLANT

Preparation Method: None Instrument ID: 40ICM3

Concentration Units: ug/L

Analyte	PQL	IDL	IDL Date
Antimony	1.0	0.15	09/04/2018
Arsenic	1.0	0.28	09/04/2018
Barium	4.9	1.5	09/04/2018
Beryllium	1.0	0.18	09/04/2018
Boron	11.0	3.3	09/04/2018
Cadmium	1.0	0.15	09/04/2018
Calcium	250	69.8	09/04/2018
Chromium	3.4	1.0	09/04/2018
Cobalt	1.0	0.12	09/04/2018
Copper	3.6	1.1	09/04/2018
Lead	1.0	0.24	09/04/2018
Lithium	1.0	0.19	09/04/2018
Molybdenum	1.5	0.44	09/04/2018
Nickel	1.3	0.40	09/04/2018
Selenium	1.1	0.32	09/04/2018
Silver	0.50	0.10	09/04/2018
Strontium	2.6	0.78	09/04/2018
Thallium	1.0	0.14	09/04/2018
Vanadium	1.0	0.32	09/04/2018
Zinc	15.3	4.6	09/04/2018

FORM IX INORGANIC-2
METHOD DETECTION LIMITS

Lab Name: Pace Analytical - Green Bay SDG No. : 40193697 Contract: 426799 WATTS BAR FOSSIL PLANT

Preparation Method: EPA 3050B Instrument ID: 40ICM3

Concentration Units: mg/kg

Analyte	PQL	MDL	MDL Date
Antimony	0.10	0.021	07/08/2019
Arsenic	0.10	0.030	07/08/2019
Barium	0.10	0.031	07/08/2019
Beryllium	0.11	0.033	07/08/2019
Boron	2.3	0.70	07/08/2019
Cadmium	0.10	0.011	07/08/2019
Calcium	84.7	25.4	07/08/2019
Chromium	0.29	0.088	07/08/2019
Cobalt	0.10	0.019	07/08/2019
Copper	0.95	0.28	07/08/2019
Lead	0.10	0.030	07/08/2019
Lithium	0.10	0.021	07/08/2019
Molybdenum	0.12	0.036	07/08/2019
Nickel	0.14	0.041	07/08/2019
Selenium	0.17	0.051	07/08/2019
Silver	0.050	0.011	07/08/2019
Strontium	0.54	0.16	07/08/2019
Thallium	0.10	0.013	07/08/2019
Vanadium	0.11	0.033	07/08/2019
Zinc	4.7	1.4	07/08/2019

FORM XI - INORGANIC-1
LINEAR DYNAMIC RANGES

Lab Name: Pace Analytical - Green Bay SDG No. : 40193697 Contract : 426799 WATTS BAR FOSSIL

Instrument ID: 40ICM3 Effective Date:02/06/2017

Analyte	Concentration (ug/L)
Antimony	5000
Arsenic	10000
Barium	10000
Beryllium	5000
Boron	5000
Cadmium	10000
Calcium	500000
Chromium	10000
Cobalt	10000
Copper	10000
Lead	10000
Lithium	10000
Molybdenum	10000
Nickel	10000
Selenium	10000
Silver	2500
Strontium	10000
Thallium	10000
Vanadium	10000
Zinc	20000

FORM XII INORGANIC-1
PREPARATION LOG

Lab Name: Pace Analytical - Green Bay SDG No. : 40193697 Contract: 426799 WATTS BAR FOSSIL PLANT

Preparation Method: EPA 3050B Batch: MPRP 20988

Lab Sample ID	Sample Name	Preparation Date	Initial Weight (g)	Final Volume (mL)
1925391	1925391BLANK	08/27/2019	0.5	50
1925392	1925392SBLK	08/27/2019	0.5	50
1925393	1925393LCS	08/27/2019	0.5	50
1925394	1925394SRM	08/27/2019	0.5	50
1925395	1925395MS	08/27/2019	0.5019	50
1925396	1925396MSD	08/27/2019	0.5035	50
40193697001	WBF-ACP-EB01-20190812	08/27/2019	0.5064	50

FORM XIII INORGANIC-1

ANALYSIS RUN LOG

Lab Name: Pace Analytical - Green Bay SDG No. : 40193697 Contract: 426799 WATTS BAR FOSSIL PLANT

Instrument ID: 40ICM3 Analysis Method: EPA 6020

Start Date: 08/31/2019 01:17 End Date: 08/31/2019 08:11

Sample Name	Lab Sample ID	D/F	Date	Time	Ag	As	B	Ba	Be	Ca	Cd	Co	Cr	Cu	Li	Mo	Ni	Pb	Sb	Se
12693586CAL0	12693586CAL0	1	08/31/2019	01:17	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
12693587CAL1	12693587CAL1	1	08/31/2019	01:24	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
12693588CAL2	12693588CAL2	1	08/31/2019	01:31	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
12693589CAL3	12693589CAL3	1	08/31/2019	01:38	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
12693590CAL4	12693590CAL4	1	08/31/2019	01:45	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
12693591CAL5	12693591CAL5	1	08/31/2019	01:52	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
12693592ICV	12693592ICV	1	08/31/2019	01:59	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
12693593ICB	12693593ICB	1	08/31/2019	02:06	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
12693594CRDL	12693594CRDL	1	08/31/2019	02:14	X	X		X	X		X	X	X	X	X	X	X	X	X	X
12693595CRDL	12693595CRDL	1	08/31/2019	02:21			X			X										
12693596ICSA	12693596ICSA	1	08/31/2019	02:28	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
12693597ICSAB	12693597ICSAB	1	08/31/2019	02:35	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
12693598CCV	12693598CCV	1	08/31/2019	02:42	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
12693607CCB	12693607CCB	1	08/31/2019	02:49	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
1925391BLANK	1925391	1	08/31/2019	02:56	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
1925392SBLK	1925392	1	08/31/2019	03:18	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
1925393LCS	1925393	1	08/31/2019	03:25	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
1925394SRM	1925394	2	08/31/2019	03:32		X					X					X				X
1925394SRM	1925394	1	08/31/2019	03:39								X	X	X			X	X		
12693608CCV	12693608CCV	1	08/31/2019	03:46	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
12693609CCB	12693609CCB	1	08/31/2019	03:54	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
40193369001	40193369001	1	08/31/2019	04:29	X	X		X		X	X	X	X	X		X	X	X	X	X
1925395MS	1925395	1	08/31/2019	04:36	X	X		X		X	X	X	X	X		X	X	X	X	X
1925396MSD	1925396	1	08/31/2019	04:44	X	X		X		X	X	X	X	X		X	X	X	X	X
1926315PDS	1926315	1	08/31/2019	04:51	X	X		X		X	X	X	X	X		X	X	X	X	X
40193369002	40193369002	1	08/31/2019	04:58	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
1926316SD	1926316	5	08/31/2019	05:05	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
12693610CCV	12693610CCV	1	08/31/2019	05:12	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
12693611CCB	12693611CCB	1	08/31/2019	05:19	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
12693612CCV	12693612CCV	1	08/31/2019	06:38	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
12693613CCB	12693613CCB	1	08/31/2019	06:45	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
WBF-ACP-EB01-20190812	40193697001	1	08/31/2019	06:59	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
12693614CCV	12693614CCV	1	08/31/2019	07:21	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
12693615CCB	12693615CCB	1	08/31/2019	07:28	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
12693616CRDL	12693616CRDL	1	08/31/2019	07:35	X	X		X	X		X	X	X	X	X	X	X	X	X	X
12693619CRDL	12693619CRDL	1	08/31/2019	07:42			X			X										
12693620ICSA	12693620ICSA	1	08/31/2019	07:49	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
12693621ICSAB	12693621ICSAB	1	08/31/2019	07:57	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
12693622CCV	12693622CCV	1	08/31/2019	08:04	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
12693623CCB	12693623CCB	1	08/31/2019	08:11	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

FORM XIII INORGANIC-1
ANALYSIS RUN LOG

Lab Name: Pace Analytical - Green Bay SDG No. : 40193697 Contract: 426799 WATTS BAR FOSSIL PLANT

Instrument ID: 40ICM3 Analysis Method: EPA 6020

Start Date: 08/31/2019 01:17 End Date: 08/31/2019 08:11

Sample Name	Lab Sample ID	D/F	Date	Time	Sr	Tl	V	Zn
12693586CAL0	12693586CAL0	1	08/31/2019	01:17	X	X	X	X
12693587CAL1	12693587CAL1	1	08/31/2019	01:24	X	X	X	X
12693588CAL2	12693588CAL2	1	08/31/2019	01:31	X	X	X	X
12693589CAL3	12693589CAL3	1	08/31/2019	01:38	X	X	X	X
12693590CAL4	12693590CAL4	1	08/31/2019	01:45	X	X	X	X
12693591CAL5	12693591CAL5	1	08/31/2019	01:52	X	X	X	X
12693592ICV	12693592ICV	1	08/31/2019	01:59	X	X	X	X
12693593ICB	12693593ICB	1	08/31/2019	02:06	X	X	X	X
12693594CRDL	12693594CRDL	1	08/31/2019	02:14		X	X	
12693595CRDL	12693595CRDL	1	08/31/2019	02:21	X			X
12693596ICSA	12693596ICSA	1	08/31/2019	02:28	X	X	X	X
12693597ICSAB	12693597ICSAB	1	08/31/2019	02:35	X	X	X	X
12693598CCV	12693598CCV	1	08/31/2019	02:42	X	X	X	X
12693607CCB	12693607CCB	1	08/31/2019	02:49	X	X	X	X
1925391BLANK	1925391	1	08/31/2019	02:56	X	X	X	X
1925392SBLK	1925392	1	08/31/2019	03:18	X	X	X	X
1925393LCS	1925393	1	08/31/2019	03:25	X	X	X	X
1925394SRM	1925394	2	08/31/2019	03:32	X			
1925394SRM	1925394	1	08/31/2019	03:39			X	X
12693608CCV	12693608CCV	1	08/31/2019	03:46	X	X	X	X
12693609CCB	12693609CCB	1	08/31/2019	03:54	X	X	X	X
40193369001	40193369001	1	08/31/2019	04:29	X	X	X	X
1925395MS	1925395	1	08/31/2019	04:36	X	X	X	X
1925396MSD	1925396	1	08/31/2019	04:44	X	X	X	X
1926315PDS	1926315	1	08/31/2019	04:51	X	X	X	X
40193369002	40193369002	1	08/31/2019	04:58	X	X	X	X
1926316SD	1926316	5	08/31/2019	05:05	X	X	X	X
12693610CCV	12693610CCV	1	08/31/2019	05:12	X	X	X	X
12693611CCB	12693611CCB	1	08/31/2019	05:19	X	X	X	X
12693612CCV	12693612CCV	1	08/31/2019	06:38	X	X	X	X
12693613CCB	12693613CCB	1	08/31/2019	06:45	X	X	X	X
WBF-ACP-EB01-20190812	40193697001	1	08/31/2019	06:59	X	X	X	X
12693614CCV	12693614CCV	1	08/31/2019	07:21	X	X	X	X
12693615CCB	12693615CCB	1	08/31/2019	07:28	X	X	X	X
12693616CRDL	12693616CRDL	1	08/31/2019	07:35		X	X	
12693619CRDL	12693619CRDL	1	08/31/2019	07:42	X			X
12693620ICSA	12693620ICSA	1	08/31/2019	07:49	X	X	X	X
12693621ICSAB	12693621ICSAB	1	08/31/2019	07:57	X	X	X	X
12693622CCV	12693622CCV	1	08/31/2019	08:04	X	X	X	X
12693623CCB	12693623CCB	1	08/31/2019	08:11	X	X	X	X

FORM XIII INORGANIC-1
ANALYSIS RUN LOG

Lab Name: Pace Analytical - Green Bay SDG No. : 40193697 Contract: 426799 WATTS BAR FOSSIL PLANT

Instrument ID: 40ICM3 Analysis Method: EPA 6020

Start Date: 09/03/2019 14:50 End Date: 09/03/2019 17:48

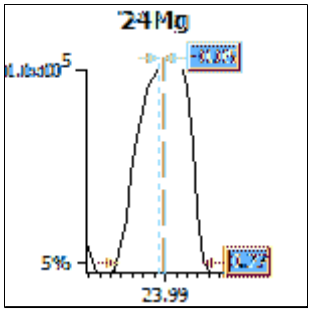
Sample Name	Lab Sample ID	D/F	Date	Time	B	Be	Li
12698452CAL0	12698452CAL0	1	09/03/2019	14:50	X	X	X
12698453CAL1	12698453CAL1	1	09/03/2019	14:57	X	X	X
12698454CAL2	12698454CAL2	1	09/03/2019	15:04	X	X	X
12698455CAL3	12698455CAL3	1	09/03/2019	15:11	X	X	X
12698456CAL4	12698456CAL4	1	09/03/2019	15:18	X	X	X
12698457CAL5	12698457CAL5	1	09/03/2019	15:25	X	X	X
12698458ICV	12698458ICV	1	09/03/2019	15:32	X	X	X
12698459ICB	12698459ICB	1	09/03/2019	15:40	X	X	X
12698460CRDL	12698460CRDL	1	09/03/2019	15:47		X	X
12698461CRDL	12698461CRDL	1	09/03/2019	15:54	X		
12698462ICSA	12698462ICSA	1	09/03/2019	16:01	X	X	X
12698463ICSAB	12698463ICSAB	1	09/03/2019	16:08	X	X	X
12698464CCV	12698464CCV	1	09/03/2019	16:15	X	X	X
12698465CCB	12698465CCB	1	09/03/2019	16:22	X	X	X
40193369001	40193369001	1	09/03/2019	16:30	X	X	X
1925395MS	1925395	1	09/03/2019	16:37	X	X	X
1925396MSD	1925396	1	09/03/2019	16:44	X	X	X
1926315PDS	1926315	1	09/03/2019	16:51	X	X	X
12698466CCV	12698466CCV	1	09/03/2019	16:58	X	X	X
12698467CCB	12698467CCB	1	09/03/2019	17:05	X	X	X
12698468CRDL	12698468CRDL	1	09/03/2019	17:12		X	X
12698469CRDL	12698469CRDL	1	09/03/2019	17:19	X		
12698470ICSA	12698470ICSA	1	09/03/2019	17:27	X	X	X
12698471ICSAB	12698471ICSAB	1	09/03/2019	17:34	X	X	X
12698472CCV	12698472CCV	1	09/03/2019	17:41	X	X	X
12698473CCB	12698473CCB	1	09/03/2019	17:48	X	X	X

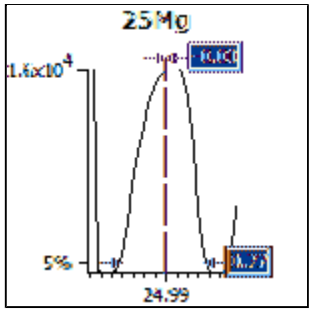
Performance Report

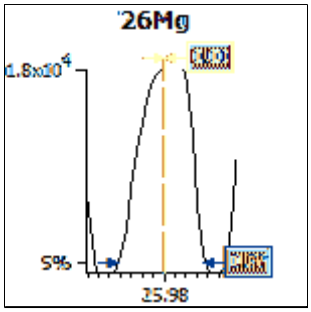
Sample details
Acquired at : 8/30/2019 7:39:10 AM
Report name : EPA 40ICM3 SN 01780C [9/19/2010 3:49:07 PM]

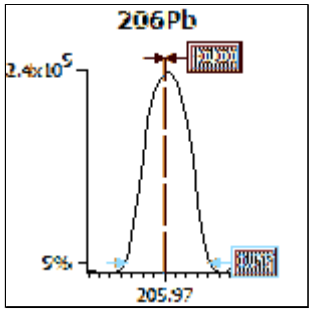
Mass Calibration verification

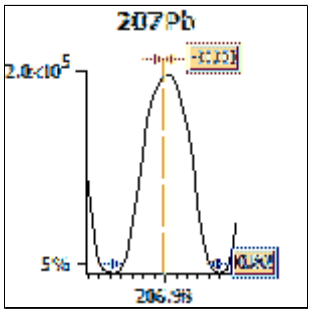
Acquisition parameters
Sweeps : 10
Dwell : 10.0 mSecs
Point spacing : 0.05 amu
Peak width measured at 5% of the peak maximum

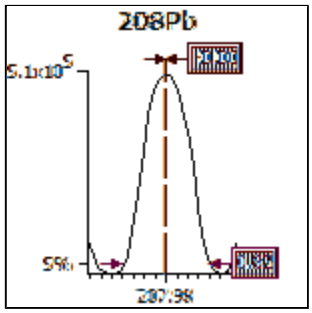












Analyte	Limits			Results	
	Max. width	Min. width	Max. error	Peak width	Peak error
24Mg	0.85	0.65	0.10	0.77	-0.05
25Mg	0.85	0.65	0.10	0.77	-0.00
26Mg	0.85	0.65	0.10	0.77	0.00
206Pb	0.85	0.65	0.10	0.77	-0.00
207Pb	0.85	0.65	0.10	0.82	-0.00
208Pb	0.85	0.65	0.10	0.82	-0.00

Sample details
Acquired at : 8/30/2019 7:39:10 AM
Report name : EPA 40ICM3 SN 01780C [9/19/2010 3:49:07 PM]

Tune conditions

Major	
Extraction	-164.7
Lens 1	-1067
Lens 2	-80.0
Focus	13.7
D1	-49.4
D2	-162
Pole Bias	0.9
Hexapole Bias	-3.5
Nebuliser	0.73

Minor	
Lens 3	-185.9
Forward power	1404
Horizontal	17
Vertical	472
DA	-36.9
Cool	13.0
Auxiliary	0.70
Sampling Depth	145

Global	
Standard resolution	125
High resolution	60
Analogue Detector	1760
PC Detector	2660

Add. Gases	
CCT-He	0.00
CCT-He	0.00

Sensitivity and stability results

Acquisition parameters
Sweeps : 35

Run	Time	5Bkg	7Li	24Mg	25Mg	26Mg	59Co	137Ba++	115In	137Ba
Dwell (mSecs)		500.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Limits	%RSD	-	2.0%	2.0%	2.0%	2.0%	2.0%	-	2.0%	-
	Countrate	<1	>60000	>10000	>10000	>10000	>150000	-	>400000	-
1	7:39:34 AM	0.114	75256.494	119475.37	16003.969	18877.445	246973.05	1671.565	537050.36	69832.423
2	7:40:18 AM	0.057	75126.973	117952.09	15981.076	18751.499	245144.02	1828.735	526269.88	67657.846
3	7:41:04 AM	0.057	76263.932	119709.52	15946.737	19315.407	243964.83	1714.430	523053.53	67893.691
4	7:41:49 AM	0.057	75057.896	117674.63	15763.595	18745.774	243710.28	1668.708	519687.94	68368.272
5	7:42:35 AM	0.057	76157.427	120938.17	16012.554	19000.531	244432.98	1800.159	525085.42	68382.654
x		0.069	75572.544	119149.96	15941.586	18938.131	244845.03	1736.719	526229.42	68426.977
σ		0.03	588.09	1344.26	102.71	235.45	1308.63	73.92	6543.71	845.08
%RSD		37.268	0.778	1.128	0.644	1.243	0.534	4.257	1.244	1.235

Run	Time	138Ba	140Ce	156Ce O	206Pb	207Pb	208Pb	220Bkg	238U
Dwell (mSecs)		10.0	10.0	10.0	10.0	10.0	10.0	500.0	10.0
Limits	%RSD	-	-	-	2.0%	2.0%	2.0%	-	2.0%
	Countrate	-	-	-	>10000	>10000	>10000	<1	>800000
1	7:39:34 AM	454800.08	646661.03	11838.292	236319.46	196773.44	493650.25	0.057	1016348.4
2	7:40:18 AM	444232.35	631891.76	11906.943	232437.52	197283.14	488673.36	0.057	999125.70
3	7:41:04 AM	445529.98	633027.59	12327.442	230242.88	195078.50	482908.40	0.000	998977.95
4	7:41:49 AM	446872.53	626760.80	12061.410	232019.60	193709.94	483378.46	0.000	996513.57
5	7:42:35 AM	445177.96	627668.41	11352.025	232133.58	192775.34	480061.54	0.000	996937.88
x		447322.58	633201.92	11897.222	232630.61	195124.07	485734.40	0.023	1001580.7
σ		4285.96	7984.39	358.07	2234.19	1930.05	5408.70	0.03	8338.44
%RSD		0.958	1.261	3.010	0.960	0.989	1.114	136.931	0.833

Ratio results

Run	Time	137Ba++/137Ba	156Ce O/140Ce
Ratio limits		<0.0300	<0.0200
1	7:39:34 AM	0.024	0.018
2	7:40:18 AM	0.027	0.019
3	7:41:04 AM	0.025	0.019
4	7:41:49 AM	0.024	0.019
5	7:42:35 AM	0.026	0.018
x		0.0254	0.0188
σ		0.00	0.00
%RSD		5.0808	3.1547

Result : The performance report passed.

Performance Report

Sample details
Acquired at : 8/30/2019 7:46:22 AM
Report name : Xt CCT 40ICM3 SN 01780C [9/19/2010 3:56:56 PM]

Tune conditions

Major	
Extraction	-164.7
Lens 1	-1067
Lens 2	-80.0
Focus	9.6
D1	-50.2
D2	-143
Pole Bias	-9.0
Hexapole Bias	-4.0
Nebuliser	0.73

Minor	
Lens 3	-195.3
Forward power	1404
Horizontal	17
Vertical	472
DA	-36.9
Cool	13.0
Auxiliary	0.70
Sampling Depth	145

Global	
Standard resolution	125
High resolution	60
Analogue Detector	1760
PC Detector	2660

Add. Gases	
CCT-He	0.00
CCT-He	0.31

Sensitivity and stability results

Acquisition parameters
Sweeps : 45

Run	Time	7Li	9Be	11B
Dwell (mSecs)		10.0	10.0	10.0
Limits	%RSD	2.0%	2.0%	2.0%
	Countrate	>10000	>2000	>2000
1	7:46:23 AM	27084.787	9624.537	12294.068
2	7:46:26 AM	27084.787	9397.659	12173.924
3	7:46:28 AM	26795.135	9384.313	12173.924
4	7:46:31 AM	27037.996	9339.828	12414.214
5	7:46:34 AM	27846.834	9306.464	12427.563
x		27169.908	9410.560	12296.739
σ		397.04	124.98	123.58
%RSD		1.461	1.328	1.005

Result : The performance report passed.

Performance Report

Sample details
Acquired at : 8/30/2019 7:54:34 AM
Report name : Xt CCT-KED 40ICM3 SN01780C [9/19/2010 3:57:39 PM]

Tune conditions

Major	
Extraction	-164.7
Lens 1	-1067
Lens 2	-80.0
Focus	-5.7
D1	-57.3
D2	-143
Pole Bias	-17.0
Hexapole Bias	-20.0
Nebuliser	0.73

Minor	
Lens 3	-195.3
Forward power	1404
Horizontal	17
Vertical	472
DA	-36.9
Cool	13.0
Auxiliary	0.70
Sampling Depth	145

Global	
Standard resolution	125
High resolution	60
Analogue Detector	1760
PC Detector	2660

Add. Gases	
CCT-He	0.00
CCT-He	3.61

Sensitivity and stability results

Acquisition parameters
Sweeps : 35

Run	Time	78Se	115In	140Ce	156Ce O
Dwell (mSecs)		100.0	10.0	10.0	50.0
Limits	%RSD	-	2.0%	-	-
	Countrate	<20	>100000	-	-
1	7:54:35 AM	8.286	170268.83	280591.23	2521.454
2	7:54:43 AM	6.857	170265.92	281102.15	2633.483
3	7:54:51 AM	6.286	172017.80	279910.05	2668.920
4	7:54:59 AM	8.857	170658.11	282488.22	2590.043
5	7:55:07 AM	7.714	167985.74	279123.21	2647.772
x		7.600	170239.28	280642.97	2612.334
σ		1.04	1450.74	1271.35	58.44
%RSD		13.710	0.852	0.453	2.237

Ratio results

Run	Time	156Ce O/140Ce
Ratio limits		<0.0200
1	7:54:35 AM	0.009
2	7:54:43 AM	0.009
3	7:54:51 AM	0.010
4	7:54:59 AM	0.009
5	7:55:07 AM	0.009
x		0.0093
σ		0.00
%RSD		2.4602

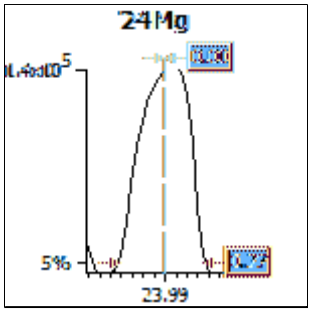
Result : The performance report passed.

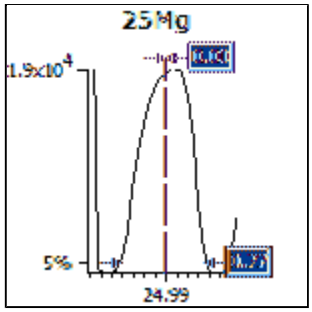
Performance Report

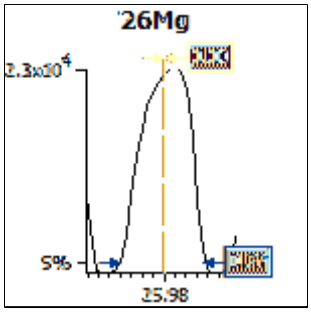
Sample details
Acquired at : 9/3/2019 11:34:52 AM
Report name : EPA 40ICM3 SN 01780C [9/19/2010 3:49:07 PM]

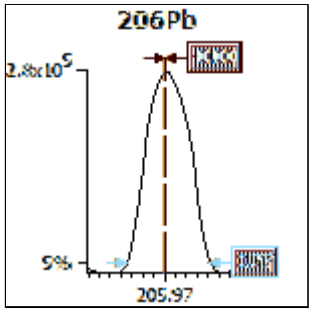
Mass Calibration verification

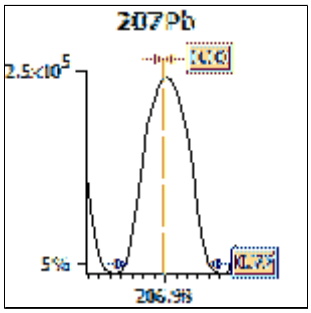
Acquisition parameters
Sweeps : 10
Dwell : 10.0 mSecs
Point spacing : 0.05 amu
Peak width measured at 5% of the peak maximum

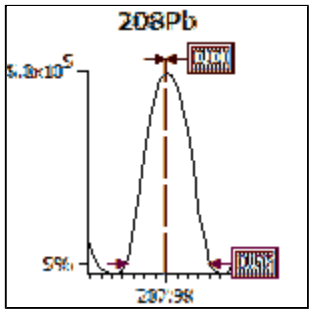












Analyte	Limits			Results	
	Max. width	Min. width	Max. error	Peak width	Peak error
24Mg	0.85	0.65	0.10	0.77	0.00
25Mg	0.85	0.65	0.10	0.77	0.00
26Mg	0.85	0.65	0.10	0.77	0.00
206Pb	0.85	0.65	0.10	0.77	-0.00
207Pb	0.85	0.65	0.10	0.77	0.00
208Pb	0.85	0.65	0.10	0.77	0.00

Sample details
Acquired at : 9/3/2019 11:34:52 AM
Report name : EPA 40ICM3 SN 01780C [9/19/2010 3:49:07 PM]

Tune conditions

Major	
Extraction	-168.6
Lens 1	-1129
Lens 2	-80.0
Focus	13.7
D1	-50.2
D2	-165
Pole Bias	0.9
Hexapole Bias	-3.5
Nebuliser	0.73

Minor	
Lens 3	-185.9
Forward power	1404
Horizontal	32
Vertical	376
DA	-36.9
Cool	13.0
Auxiliary	0.70
Sampling Depth	145

Global	
Standard resolution	125
High resolution	60
Analogue Detector	1770
PC Detector	2695

Add. Gases	
CCT-He	0.00
CCT-He	0.00

Sensitivity and stability results

Acquisition parameters
Sweeps : 35

Run	Time	5Bkg	7Li	24Mg	25Mg	26Mg	59Co	137Ba++	115In	137Ba
Dwell (mSecs)		500.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Limits	%RSD	-	2.0%	2.0%	2.0%	2.0%	2.0%	-	2.0%	-
	Countrate	<1	>60000	>10000	>10000	>10000	>150000	-	>400000	-
1	11:35:15 AM	0.000	100466.44	142360.47	19361.208	22421.750	322328.89	2474.586	698544.65	90410.188
2	11:36:01 AM	0.114	103083.78	144246.68	19816.366	22762.503	321465.13	2371.704	690934.69	88401.273
3	11:36:46 AM	0.114	101730.30	144597.30	19326.857	22839.818	318656.20	2360.273	684184.73	87951.699
4	11:37:32 AM	0.000	103837.08	143985.89	19421.322	23272.222	322266.98	2294.544	689267.41	87692.338
5	11:38:17 AM	0.000	103718.74	146515.81	19223.805	22971.542	322373.11	2297.401	690653.74	89479.178
x		0.046	102567.27	144341.23	19429.912	22853.567	321418.06	2359.702	690717.04	88786.935
σ		0.06	1442.14	1487.70	227.62	309.89	1588.43	73.26	5150.13	1135.63
%RSD		136.931	1.406	1.031	1.171	1.356	0.494	3.105	0.746	1.279

Run	Time	138Ba	140Ce	156Ce O	206Pb	207Pb	208Pb	220Bkg	238U
Dwell (mSecs)		10.0	10.0	10.0	10.0	10.0	10.0	500.0	10.0
Limits	%RSD	-	-	-	2.0%	2.0%	2.0%	-	2.0%
	Countrate	-	-	-	>10000	>10000	>10000	<1	>800000
1	11:35:15 AM	591410.15	813520.07	14893.719	272158.83	229714.02	575226.04	0.057	1131018.1
2	11:36:01 AM	575476.75	807000.21	15380.154	272299.66	228007.82	569307.58	0.057	1118800.7
3	11:36:46 AM	572758.61	792526.30	16081.233	272786.69	226465.46	563166.18	0.057	1098569.5
4	11:37:32 AM	576068.79	795736.56	15122.626	270392.80	224897.06	549634.60	0.114	1113442.2
5	11:38:17 AM	579682.19	801255.80	15128.349	266424.73	223004.77	552657.18	0.057	1110077.9
x		579079.30	802007.79	15321.216	270812.54	226417.83	561998.32	0.069	1114381.7
σ		7321.30	8474.22	458.39	2614.88	2615.19	10838.36	0.03	11892.52
%RSD		1.264	1.057	2.992	0.966	1.155	1.929	37.268	1.067

Ratio results

Run	Time	137Ba++/137Ba	156Ce O/140Ce
Ratio limits		<0.0300	<0.0200
1	11:35:15 AM	0.027	0.018
2	11:36:01 AM	0.027	0.019
3	11:36:46 AM	0.027	0.020
4	11:37:32 AM	0.026	0.019
5	11:38:17 AM	0.026	0.019
x		0.0266	0.0191
σ		0.00	0.00
%RSD		2.4836	3.7963

Result : The performance report passed.

Performance Report

Sample details
Acquired at : 9/3/2019 11:44:36 AM
Report name : Xt CCT 40ICM3 SN 01780C [9/19/2010 3:56:56 PM]

Tune conditions

Major	
Extraction	-168.6
Lens 1	-1129
Lens 2	-80.0
Focus	11.0
D1	-47.8
D2	-143
Pole Bias	-9.0
Hexapole Bias	-4.0
Nebuliser	0.73

Minor	
Lens 3	-195.3
Forward power	1404
Horizontal	32
Vertical	376
DA	-36.9
Cool	13.0
Auxiliary	0.70
Sampling Depth	145

Global	
Standard resolution	125
High resolution	60
Analogue Detector	1770
PC Detector	2695

Add. Gases	
CCT-He	0.00
CCT-He	0.31

Sensitivity and stability results

Acquisition parameters
Sweeps : 45

Run	Time	7Li	9Be	11B
Dwell (mSecs)		10.0	10.0	10.0
Limits %RSD		2.0%	2.0%	2.0%
Limits Countrate		>10000	>2000	>2000
1	11:44:37 AM	34235.112	11406.372	13270.846
2	11:44:40 AM	33686.624	11170.555	12770.208
3	11:44:43 AM	34339.907	11684.464	13166.266
4	11:44:46 AM	34096.872	11410.821	13050.562
5	11:44:49 AM	34359.975	11330.732	12932.635
x		34143.698	11400.589	13038.104
σ		276.02	186.09	195.99
%RSD		0.808	1.632	1.503

Result : The performance report passed.

Performance Report

Sample details
Acquired at : 9/3/2019 11:52:23 AM
Report name : Xt CCT-KED 40ICM3 SN01780C [9/19/2010 3:57:39 PM]

Tune conditions

Major	
Extraction	-168.6
Lens 1	-1129
Lens 2	-80.0
Focus	-6.5
D1	-58.0
D2	-143
Pole Bias	-17.0
Hexapole Bias	-20.0
Nebuliser	0.73

Minor	
Lens 3	-195.3
Forward power	1404
Horizontal	32
Vertical	376
DA	-36.9
Cool	13.0
Auxiliary	0.70
Sampling Depth	145

Global	
Standard resolution	125
High resolution	60
Analogue Detector	1770
PC Detector	2695

Add. Gases	
CCT-He	0.00
CCT-He	3.69

Sensitivity and stability results

Acquisition parameters
Sweeps : 35

Run	Time	78Se	115In	140Ce	156Ce O
Dwell (mSecs)		100.0	10.0	10.0	50.0
Limits	%RSD	-	2.0%	-	-
	Countrate	<20	>100000	-	-
1	11:52:23 AM	10.286	216556.67	368069.24	3945.906
2	11:52:31 AM	11.143	219291.29	371537.31	4174.568
3	11:52:39 AM	8.000	218833.04	373098.46	4183.143
4	11:52:47 AM	10.286	221320.11	372197.88	4384.942
5	11:52:55 AM	10.000	218199.69	370704.98	4020.792
x		9.943	218840.16	371121.57	4141.870
σ		1.17	1730.48	1918.96	169.50
%RSD		11.743	0.791	0.517	4.092

Ratio results

Run	Time	156Ce O/140Ce
Ratio limits		<0.0200
1	11:52:23 AM	0.011
2	11:52:31 AM	0.011
3	11:52:39 AM	0.011
4	11:52:47 AM	0.012
5	11:52:55 AM	0.011
x		0.0112
σ		0.00
%RSD		3.7107

Result : The performance report passed.

FORM XV INORGANIC-1

INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY

Lab Name: Pace Analytical - Green Bay SDG No. : 40193697 Contract: 426799 WATTS BAR FOSSIL PLANT

Instrument ID: 40ICM3 Start Date: 08/31/2019 01:17 End Date: 08/31/2019 08:11

Sample Name	Time	Bi-209	Ge-72	In-115	Sc-45-CCT	Sc-45-KED	Tb-159	Y-89
12693586CAL0	01:17	100.0	100.0	100.0	100.0	100.0	100.0	100.0
12693587CAL1	01:24	102.0	101.1	104.4	102.0	101.8	102.5	102.4
12693588CAL2	01:31	102.5	100.6	104.1	101.2	100.7	101.7	101.8
12693589CAL3	01:38	101.5	100.1	102.1	99.8	100.4	100.5	99.9
12693590CAL4	01:45	105.0	99.2	105.7	99.3	99.4	104.0	100.9
12693591CAL5	01:52	103.4	94.1	105.2	95.1	97.3	103.3	98.1
12693592ICV	01:59	104.2	101.1	105.5	97.6	99.4	103.9	101.8
12693593ICB	02:06	103.4	102.8	104.3	100.7	101.4	102.2	103.6
12693594CRDL	02:14	103.8	104.4	106.8	103.5	104.4	103.6	105.2
12693595CRDL	02:21	102.4	106.5	107.8	104.8	106.1	104.0	106.2
12693596ICSA	02:28	98.4	93.9	103.0	97.3	95.9	99.9	98.4
12693597ICSAB	02:35	103.2	95.4	107.7	97.9	98.2	103.9	100.9
12693598CCV	02:42	110.0	108.5	112.4	107.5	107.2	110.0	108.9
12693607CCB	02:49	108.0	109.5	109.8	110.3	109.5	108.9	109.9
1925391BLANK	02:56	110.0	111.1	113.5	109.9	111.6	108.8	111.9
1925392SBLK	03:18	116.2	117.5	120.6	118.5	118.7	116.8	118.5
1925393LCS	03:25	110.7	120.7	120.7	120.5	121.3	115.3	121.3
1925394SRM	03:32	105.8	114.8	114.2	117.8	114.1	111.7	120.1
1925394SRM	03:39	109.2	116.5	118.4	119.2	114.8	117.2	129.4
12693608CCV	03:46	116.7	114.9	119.5	112.7	113.1	115.0	115.3
12693609CCB	03:54	111.9	116.5	115.8	117.4	115.6	112.9	116.6
40193369001	04:29	115.1	118.9	121.0	122.0	117.9	117.1	119.0
1925395MS	04:36	112.2	121.9	121.5	123.3	120.1	116.6	120.7
1925396MSD	04:44	110.8	122.2	120.9	124.2	121.2	116.1	121.5
1926315PDS	04:51	113.8	123.0	123.9	125.3	121.5	119.0	123.5
40193369002	04:58	114.7	117.4	119.7	118.6	115.6	116.9	117.9
1926316SD	05:05	111.5	115.6	115.2	115.8	113.9	112.7	115.0
12693610CCV	05:12	110.6	116.0	116.7	118.0	115.0	112.4	115.0
12693611CCB	05:19	108.2	117.6	115.0	117.9	115.4	112.4	115.9
12693612CCV	06:38	109.6	116.8	118.0	119.7	116.8	111.7	116.2
12693613CCB	06:45	106.5	117.7	114.2	120.0	116.5	113.5	116.4
WBF-ACP-EB01-	06:59	107.6	118.1	115.8	117.8	118.4	109.5	115.9
12693614CCV	07:21	108.4	115.4	116.7	117.8	116.0	111.1	115.1
12693615CCB	07:28	103.5	114.3	111.6	117.4	116.3	106.7	114.5
12693616CRDL	07:35	103.9	118.5	115.2	119.7	120.2	112.8	116.5
12693619CRDL	07:42	105.7	118.4	115.6	121.0	118.6	108.6	117.0
12693620ICSA	07:49	96.7	100.4	107.6	108.3	105.1	101.0	105.5
12693621ICSAB	07:57	100.4	102.5	110.2	108.0	106.4	104.9	106.7
12693622CCV	08:04	110.4	114.2	116.9	115.4	113.8	112.3	114.4
12693623CCB	08:11	105.5	115.8	112.8	118.4	116.1	108.9	114.7

FORM XV INORGANIC-1

INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY

Lab Name: Pace Analytical - Green Bay SDG No. : 40193697 Contract: 426799 WATTS BAR FOSSIL PLANT

Instrument ID: 40ICM3 Start Date: 09/03/2019 14:50 End Date: 09/03/2019 17:48

Sample Name	Time	Bi-209	Ge-72	In-115	Sc-45-CCT	Sc-45-KED	Tb-159	Y-89
12698452CAL0	14:50	100.0	100.0	100.0	100.0	100.0	100.0	100.0
12698453CAL1	14:57	100.3	100.9	102.2	102.3	99.7	99.6	100.2
12698454CAL2	15:04	99.3	98.9	100.0	102.7	97.2	98.1	98.3
12698455CAL3	15:11	100.7	95.6	99.2	97.4	93.8	94.3	95.7
12698456CAL4	15:18	96.5	86.2	93.1	91.2	85.1	89.8	87.7
12698457CAL5	15:25	92.3	74.3	85.2	79.3	75.5	84.2	78.1
12698458ICV	15:32	96.0	78.6	85.7	76.7	75.9	85.6	80.1
12698459ICB	15:40	95.4	81.9	86.1	81.2	79.7	86.4	83.5
12698460CRDL	15:47	96.6	86.6	90.8	87.3	84.1	88.7	87.0
12698461CRDL	15:54	96.4	88.0	91.5	89.6	85.3	88.4	88.1
12698462ICSA	16:01	86.1	72.0	83.0	77.6	71.6	79.3	75.5
12698463ICSAB	16:08	89.9	73.0	84.5	74.4	71.4	81.5	75.9
12698464CCV	16:15	100.5	83.7	90.6	85.3	81.0	90.1	84.8
12698465CCB	16:22	99.8	89.2	91.6	89.4	85.7	91.2	89.4
40193369001	16:30	102.4	92.3	96.0	92.6	89.3	97.7	92.9
1925395MS	16:37	100.2	94.7	98.2	99.3	90.4	97.7	95.6
1925396MSD	16:44	100.0	94.0	97.8	98.3	90.0	97.5	95.0
1926315PDS	16:51	100.4	94.1	98.2	98.2	90.7	97.9	95.6
12698466CCV	16:58	104.9	90.3	96.5	94.2	86.7	95.8	91.3
12698467CCB	17:05	103.2	93.9	96.0	96.5	91.3	99.8	94.4
12698468CRDL	17:12	103.4	96.9	99.9	99.7	94.2	100.3	96.7
12698469CRDL	17:19	103.3	97.8	100.5	101.6	95.0	100.6	97.1
12698470ICSA	17:27	90.4	76.0	86.8	82.5	75.1	83.2	79.2
12698471ICSAB	17:34	93.1	76.3	88.0	79.4	74.4	84.6	79.2
12698472CCV	17:41	104.4	86.9	93.9	89.0	83.6	93.3	88.2
12698473CCB	17:48	102.2	91.9	94.1	93.6	87.9	95.9	91.5

Experiment Details

Description	PlasmaLab Template BlankExperiment
Template Filename	C:\Program Files\Thermo Fisher\PlasmaLab\Templates\TVA Project XSII SN 01780 C.tet
Created By User	metals
Analyte Database	Pace.tea
Creation Timestamp	7/10/2008 4:47:18 PM
Last Edited By	ICM3
Last Edit Timestamp	9/3/2019 8:38:53 AM
Instrument Detector	Simultaneous
Database Version	3,51
Acquisition Mode	Unknown

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
No flag
Semi Quant
Standard Addition
Multi Element

Result cells
Internal Standard
Excluded
QC Warning
QC Failure
Transient TRA only:
Peak Not Found
Manually Edited
Merged Peak

Data warning flags
I - Invalid calibration
T - Tripped
F - Interference correction failed
M - Result over max
V - Valley integration failed
D - Different method used

Setup

Survey Scan Setup

Sweeps	10
Dwell Time	600
Channels Per Mass	10
Acquisition Duration	13345

Main Run Setup

Main Run	Peak Jumping
Sweeps	45
Dwell Time	10000
Channels Per Mass	1
Acquisition Duration	32128
Channel Spacing	0.02

Survey Scan Regions

Start AMU	End AMU	Channels	Dwell ms	Resolution
4.59	11.50	69	600	
12.50	13.50	10	600	
22.59	28.41	58	600	
30.59	31.41	8	600	
33.59	35.50	19	600	
38.59	39.41	8	600	
42.59	45.50	29	600	
46.50	79.41	329	600	
80.59	245.50	1649	600	

Peak Jump Regions

Analyte	Channels	Dwell ms	Resolution
7Li	1	10000	Standard
9Be	1	10000	Standard
10B	1	10000	Standard
23Na	1	5000	
25Mg	1	10000	Standard
27Al	1	10000	Standard
28Si	1	10000	Standard
31P	1	10000	Standard
34S	1	10000	
35Cl	1	10000	

39K	1	10000	
43Ca	1	10000	Standard
45Sc-KED	1	10000	Standard
45Sc-CCT	1	10000	
47Ti	1	10000	Standard
51V	1	10000	Standard
52Cr	1	10000	Standard
53Cl O	1	10000	Standard
54Fe	1	10000	Standard
55Mn	1	10000	Standard
59Co	1	10000	Standard
60Ni	1	10000	Standard
63Cu	1	10000	Standard
66Zn	1	10000	Standard
72Ge	1	10000	Standard
73Ge	1	10000	Standard
75As	1	50000	Standard
78Se	1	50000	Standard
83Kr	1	50000	Standard
88Sr	1	10000	Standard
89Y	1	10000	Standard
90Zr	1	10000	Standard
95Mo	1	10000	Standard
105Pd	1	10000	Standard
107Ag	1	10000	Standard
111Cd	1	10000	Standard
115In	1	10000	Standard
118Sn	1	10000	Standard
121Sb	1	10000	Standard
137Ba	1	10000	Standard
159Tb	1	10000	Standard
184W	1	10000	Standard
195Pt	1	10000	Standard
201Hg	1	10000	Standard
205Tl	1	10000	Standard
206Pb	1	10000	Standard
207Pb	1	10000	Standard
208Pb	1	10000	Standard
209Bi	1	10000	Standard
238U	1	10000	Standard

Instrument Configuration

Sample/Analyte Settings

Label	Config	7Li	9Be	10B	23Na	25Mg	27Al	28Si	31P	34S	35Cl
233902_10003_Cal0	4	7	7	7	8	8	8	8	8	8	8
233903_10003_Cal1	4	7	7	7	8	8	8	8	8	8	8
233904_10003_Cal2	4	7	7	7	8	8	8	8	8	8	8
233905_10003_Cal3	4	7	7	7	8	8	8	8	8	8	8
233906_10003_Cal4	4	7	7	7	8	8	8	8	8	8	8
233907_10003_Cal5	4	7	7	7	8	8	8	8	8	8	8
233143_10003_ICV	4	7	7	7	8	8	8	8	8	8	8
233902_10003_ICBTVA	4	7	7	7	8	8	8	8	8	8	8
233903_10003_CRDL_A1	4	7	7	7	8	8	8	8	8	8	8
233904_10003_CRDL_B1	4	7	7	7	8	8	8	8	8	8	8
233407_10003_ICSA1	4	7	7	7	8	8	8	8	8	8	8
233596_10003_ICSAB1	4	7	7	7	8	8	8	8	8	8	8
233908_10003_CCV1	4	7	7	7	8	8	8	8	8	8	8
233902_10003_CCBTVA1	4	7	7	7	8	8	8	8	8	8	8
1925391_9996	4	7	7	7	8	8	8	8	8	8	8
40193365013_9996	4	7	7	7	8	8	8	8	8	8	8
40193369013_9996	4	7	7	7	8	8	8	8	8	8	8
1925392_9996	4	7	7	7	8	8	8	8	8	8	8
1925393_9996	4	7	7	7	8	8	8	8	8	8	8
1925394_9996x2	4	7	7	7	8	8	8	8	8	8	8
1925394_9996	4	7	7	7	8	8	8	8	8	8	8
233908_10003_CCV2	4	7	7	7	8	8	8	8	8	8	8
233902_10003_CCBTVA2	4	7	7	7	8	8	8	8	8	8	8
40193369001_9996x2	4	7	7	7	8	8	8	8	8	8	8
1925395_9996x2	4	7	7	7	8	8	8	8	8	8	8

1925396_9996x2	4	7	7	7	8	8	8	8	8	8	8
1926315_9996x2	4	7	7	7	8	8	8	8	8	8	8
40193369001_9996	4	7	7	7	8	8	8	8	8	8	8
1925395_9996	4	7	7	7	8	8	8	8	8	8	8
1925396_9996	4	7	7	7	8	8	8	8	8	8	8
1926315_9996	4	7	7	7	8	8	8	8	8	8	8
40193369002_9996	4	7	7	7	8	8	8	8	8	8	8
1926316_9996x5	4	7	7	7	8	8	8	8	8	8	8
233908_10003_CCV3	4	7	7	7	8	8	8	8	8	8	8
233902_10003_CCBTVA3	4	7	7	7	8	8	8	8	8	8	8
40193369003_9996	4	7	7	7	8	8	8	8	8	8	8
40193369004_9996	4	7	7	7	8	8	8	8	8	8	8
40193369005_9996	4	7	7	7	8	8	8	8	8	8	8
40193369006_9996	4	7	7	7	8	8	8	8	8	8	8
40193369007_9996	4	7	7	7	8	8	8	8	8	8	8
40193369008_9996	4	7	7	7	8	8	8	8	8	8	8
40193369009_9996	4	7	7	7	8	8	8	8	8	8	8
40193369010_9996	4	7	7	7	8	8	8	8	8	8	8
40193369011_9996	4	7	7	7	8	8	8	8	8	8	8
40193369012_9996	4	7	7	7	8	8	8	8	8	8	8
233908_10003_CCV4	4	7	7	7	8	8	8	8	8	8	8
233902_10003_CCBTVA4	4	7	7	7	8	8	8	8	8	8	8
40193694001_9996	4	7	7	7	8	8	8	8	8	8	8
40193697001_9996	4	7	7	7	8	8	8	8	8	8	8
40193698001_9996	4	7	7	7	8	8	8	8	8	8	8
40193698002_9996	4	7	7	7	8	8	8	8	8	8	8
233908_10003_CCV5	4	7	7	7	8	8	8	8	8	8	8
233902_10003_CCBTVA5	4	7	7	7	8	8	8	8	8	8	8
233903_10003_CRDL_A2	4	7	7	7	8	8	8	8	8	8	8
233904_10003_CRDL_B2	4	7	7	7	8	8	8	8	8	8	8
233407_10003_ICSA2	4	7	7	7	8	8	8	8	8	8	8
233596_10003_ICSAB2	4	7	7	7	8	8	8	8	8	8	8
233908_10003_CCV6	4	7	7	7	8	8	8	8	8	8	8
233902_10003_CCBTVA6	4	7	7	7	8	8	8	8	8	8	8
Label	**Config**	**39K**	**43Ca**	**45Sc-KED**	**45Sc-CCT**	**47Ti**	**51V**	**52Cr**	**53Cl O**	**54Fe**	**55Mn**
233902_10003_Cal0	4	8	8	8	7	8	8	8	8	8	8
233903_10003_Cal1	4	8	8	8	7	8	8	8	8	8	8
233904_10003_Cal2	4	8	8	8	7	8	8	8	8	8	8
233905_10003_Cal3	4	8	8	8	7	8	8	8	8	8	8
233906_10003_Cal4	4	8	8	8	7	8	8	8	8	8	8
233907_10003_Cal5	4	8	8	8	7	8	8	8	8	8	8
233143_10003_ICV	4	8	8	8	7	8	8	8	8	8	8
233902_10003_ICBTVA	4	8	8	8	7	8	8	8	8	8	8
233903_10003_CRDL_A1	4	8	8	8	7	8	8	8	8	8	8
233904_10003_CRDL_B1	4	8	8	8	7	8	8	8	8	8	8
233407_10003_ICSA1	4	8	8	8	7	8	8	8	8	8	8
233596_10003_ICSAB1	4	8	8	8	7	8	8	8	8	8	8
233908_10003_CCV1	4	8	8	8	7	8	8	8	8	8	8
233902_10003_CCBTVA1	4	8	8	8	7	8	8	8	8	8	8
1925391_9996	4	8	8	8	7	8	8	8	8	8	8
40193365013_9996	4	8	8	8	7	8	8	8	8	8	8
40193369013_9996	4	8	8	8	7	8	8	8	8	8	8
1925392_9996	4	8	8	8	7	8	8	8	8	8	8
1925393_9996	4	8	8	8	7	8	8	8	8	8	8
1925394_9996x2	4	8	8	8	7	8	8	8	8	8	8
1925394_9996	4	8	8	8	7	8	8	8	8	8	8
233908_10003_CCV2	4	8	8	8	7	8	8	8	8	8	8
233902_10003_CCBTVA2	4	8	8	8	7	8	8	8	8	8	8
40193369001_9996x2	4	8	8	8	7	8	8	8	8	8	8
1925395_9996x2	4	8	8	8	7	8	8	8	8	8	8
1925396_9996x2	4	8	8	8	7	8	8	8	8	8	8
1926315_9996x2	4	8	8	8	7	8	8	8	8	8	8
40193369001_9996	4	8	8	8	7	8	8	8	8	8	8
1925395_9996	4	8	8	8	7	8	8	8	8	8	8
1925396_9996	4	8	8	8	7	8	8	8	8	8	8
1926315_9996	4	8	8	8	7	8	8	8	8	8	8
40193369002_9996	4	8	8	8	7	8	8	8	8	8	8
1926316_9996x5	4	8	8	8	7	8	8	8	8	8	8
233908_10003_CCV3	4	8	8	8	7	8	8	8	8	8	8

233902_10003_CCBTVA3	4	8	8	8	7	8	8	8	8	8	8
40193369003_9996	4	8	8	8	7	8	8	8	8	8	8
40193369004_9996	4	8	8	8	7	8	8	8	8	8	8
40193369005_9996	4	8	8	8	7	8	8	8	8	8	8
40193369006_9996	4	8	8	8	7	8	8	8	8	8	8
40193369007_9996	4	8	8	8	7	8	8	8	8	8	8
40193369008_9996	4	8	8	8	7	8	8	8	8	8	8
40193369009_9996	4	8	8	8	7	8	8	8	8	8	8
40193369010_9996	4	8	8	8	7	8	8	8	8	8	8
40193369011_9996	4	8	8	8	7	8	8	8	8	8	8
40193369012_9996	4	8	8	8	7	8	8	8	8	8	8
233908_10003_CCV4	4	8	8	8	7	8	8	8	8	8	8
233902_10003_CCBTVA4	4	8	8	8	7	8	8	8	8	8	8
40193694001_9996	4	8	8	8	7	8	8	8	8	8	8
40193697001_9996	4	8	8	8	7	8	8	8	8	8	8
40193698001_9996	4	8	8	8	7	8	8	8	8	8	8
40193698002_9996	4	8	8	8	7	8	8	8	8	8	8
233908_10003_CCV5	4	8	8	8	7	8	8	8	8	8	8
233902_10003_CCBTVA5	4	8	8	8	7	8	8	8	8	8	8
233903_10003_CRDL_A2	4	8	8	8	7	8	8	8	8	8	8
233904_10003_CRDL_B2	4	8	8	8	7	8	8	8	8	8	8
233407_10003_ICSA2	4	8	8	8	7	8	8	8	8	8	8
233596_10003_ICSAB2	4	8	8	8	7	8	8	8	8	8	8
233908_10003_CCV6	4	8	8	8	7	8	8	8	8	8	8
233902_10003_CCBTVA6	4	8	8	8	7	8	8	8	8	8	8

Label	Config	59Co	60Ni	63Cu	66Zn	72Ge	73Ge	75As	78Se	83Kr	88Sr
233902_10003_Cal0	4	8	8	8	8	8	8	8	8	8	8
233903_10003_Cal1	4	8	8	8	8	8	8	8	8	8	8
233904_10003_Cal2	4	8	8	8	8	8	8	8	8	8	8
233905_10003_Cal3	4	8	8	8	8	8	8	8	8	8	8
233906_10003_Cal4	4	8	8	8	8	8	8	8	8	8	8
233907_10003_Cal5	4	8	8	8	8	8	8	8	8	8	8
233143_10003_ICV	4	8	8	8	8	8	8	8	8	8	8
233902_10003_ICBTVA	4	8	8	8	8	8	8	8	8	8	8
233903_10003_CRDL_A1	4	8	8	8	8	8	8	8	8	8	8
233904_10003_CRDL_B1	4	8	8	8	8	8	8	8	8	8	8
233407_10003_ICSA1	4	8	8	8	8	8	8	8	8	8	8
233596_10003_ICSAB1	4	8	8	8	8	8	8	8	8	8	8
233908_10003_CCV1	4	8	8	8	8	8	8	8	8	8	8
233902_10003_CCBTVA1	4	8	8	8	8	8	8	8	8	8	8
1925391_9996	4	8	8	8	8	8	8	8	8	8	8
40193365013_9996	4	8	8	8	8	8	8	8	8	8	8
40193369013_9996	4	8	8	8	8	8	8	8	8	8	8
1925392_9996	4	8	8	8	8	8	8	8	8	8	8
1925393_9996	4	8	8	8	8	8	8	8	8	8	8
1925394_9996x2	4	8	8	8	8	8	8	8	8	8	8
1925394_9996	4	8	8	8	8	8	8	8	8	8	8
233908_10003_CCV2	4	8	8	8	8	8	8	8	8	8	8
233902_10003_CCBTVA2	4	8	8	8	8	8	8	8	8	8	8
40193369001_9996x2	4	8	8	8	8	8	8	8	8	8	8
1925395_9996x2	4	8	8	8	8	8	8	8	8	8	8
1925396_9996x2	4	8	8	8	8	8	8	8	8	8	8
1926315_9996x2	4	8	8	8	8	8	8	8	8	8	8
40193369001_9996	4	8	8	8	8	8	8	8	8	8	8
1925395_9996	4	8	8	8	8	8	8	8	8	8	8
1925396_9996	4	8	8	8	8	8	8	8	8	8	8
1926315_9996	4	8	8	8	8	8	8	8	8	8	8
40193369002_9996	4	8	8	8	8	8	8	8	8	8	8
1926316_9996x5	4	8	8	8	8	8	8	8	8	8	8
233908_10003_CCV3	4	8	8	8	8	8	8	8	8	8	8
233902_10003_CCBTVA3	4	8	8	8	8	8	8	8	8	8	8
40193369003_9996	4	8	8	8	8	8	8	8	8	8	8
40193369004_9996	4	8	8	8	8	8	8	8	8	8	8
40193369005_9996	4	8	8	8	8	8	8	8	8	8	8
40193369006_9996	4	8	8	8	8	8	8	8	8	8	8
40193369007_9996	4	8	8	8	8	8	8	8	8	8	8
40193369008_9996	4	8	8	8	8	8	8	8	8	8	8
40193369009_9996	4	8	8	8	8	8	8	8	8	8	8
40193369010_9996	4	8	8	8	8	8	8	8	8	8	8

40193369011_9996	4	8	8	8	8	8	8	8	8	8	8
40193369012_9996	4	8	8	8	8	8	8	8	8	8	8
233908_10003_CCV4	4	8	8	8	8	8	8	8	8	8	8
233902_10003_CCBTVA4	4	8	8	8	8	8	8	8	8	8	8
40193694001_9996	4	8	8	8	8	8	8	8	8	8	8
40193697001_9996	4	8	8	8	8	8	8	8	8	8	8
40193698001_9996	4	8	8	8	8	8	8	8	8	8	8
40193698002_9996	4	8	8	8	8	8	8	8	8	8	8
233908_10003_CCV5	4	8	8	8	8	8	8	8	8	8	8
233902_10003_CCBTVA5	4	8	8	8	8	8	8	8	8	8	8
233903_10003_CRDL_A2	4	8	8	8	8	8	8	8	8	8	8
233904_10003_CRDL_B2	4	8	8	8	8	8	8	8	8	8	8
233407_10003_ICSA2	4	8	8	8	8	8	8	8	8	8	8
233596_10003_ICSAB2	4	8	8	8	8	8	8	8	8	8	8
233908_10003_CCV6	4	8	8	8	8	8	8	8	8	8	8
233902_10003_CCBTVA6	4	8	8	8	8	8	8	8	8	8	8
Label	**Config**	**89Y**	**90Zr**	**95Mo**	**105Pd**	**107Ag**	**111Cd**	**115In**	**118Sn**	**121Sb**	**137Ba**
233902_10003_Cal0	4	8	8	8	8	8	8	8	8	8	8
233903_10003_Cal1	4	8	8	8	8	8	8	8	8	8	8
233904_10003_Cal2	4	8	8	8	8	8	8	8	8	8	8
233905_10003_Cal3	4	8	8	8	8	8	8	8	8	8	8
233906_10003_Cal4	4	8	8	8	8	8	8	8	8	8	8
233907_10003_Cal5	4	8	8	8	8	8	8	8	8	8	8
233143_10003_ICV	4	8	8	8	8	8	8	8	8	8	8
233902_10003_ICBTVA	4	8	8	8	8	8	8	8	8	8	8
233903_10003_CRDL_A1	4	8	8	8	8	8	8	8	8	8	8
233904_10003_CRDL_B1	4	8	8	8	8	8	8	8	8	8	8
233407_10003_ICSA1	4	8	8	8	8	8	8	8	8	8	8
233596_10003_ICSAB1	4	8	8	8	8	8	8	8	8	8	8
233908_10003_CCV1	4	8	8	8	8	8	8	8	8	8	8
233902_10003_CCBTVA1	4	8	8	8	8	8	8	8	8	8	8
1925391_9996	4	8	8	8	8	8	8	8	8	8	8
40193365013_9996	4	8	8	8	8	8	8	8	8	8	8
40193369013_9996	4	8	8	8	8	8	8	8	8	8	8
1925392_9996	4	8	8	8	8	8	8	8	8	8	8
1925393_9996	4	8	8	8	8	8	8	8	8	8	8
1925394_9996x2	4	8	8	8	8	8	8	8	8	8	8
1925394_9996	4	8	8	8	8	8	8	8	8	8	8
233908_10003_CCV2	4	8	8	8	8	8	8	8	8	8	8
233902_10003_CCBTVA2	4	8	8	8	8	8	8	8	8	8	8
40193369001_9996x2	4	8	8	8	8	8	8	8	8	8	8
1925395_9996x2	4	8	8	8	8	8	8	8	8	8	8
1925396_9996x2	4	8	8	8	8	8	8	8	8	8	8
1926315_9996x2	4	8	8	8	8	8	8	8	8	8	8
40193369001_9996	4	8	8	8	8	8	8	8	8	8	8
1925395_9996	4	8	8	8	8	8	8	8	8	8	8
1925396_9996	4	8	8	8	8	8	8	8	8	8	8
1926315_9996	4	8	8	8	8	8	8	8	8	8	8
40193369002_9996	4	8	8	8	8	8	8	8	8	8	8
1926316_9996x5	4	8	8	8	8	8	8	8	8	8	8
233908_10003_CCV3	4	8	8	8	8	8	8	8	8	8	8
233902_10003_CCBTVA3	4	8	8	8	8	8	8	8	8	8	8
40193369003_9996	4	8	8	8	8	8	8	8	8	8	8
40193369004_9996	4	8	8	8	8	8	8	8	8	8	8
40193369005_9996	4	8	8	8	8	8	8	8	8	8	8
40193369006_9996	4	8	8	8	8	8	8	8	8	8	8
40193369007_9996	4	8	8	8	8	8	8	8	8	8	8
40193369008_9996	4	8	8	8	8	8	8	8	8	8	8
40193369009_9996	4	8	8	8	8	8	8	8	8	8	8
40193369010_9996	4	8	8	8	8	8	8	8	8	8	8
40193369011_9996	4	8	8	8	8	8	8	8	8	8	8
40193369012_9996	4	8	8	8	8	8	8	8	8	8	8
233908_10003_CCV4	4	8	8	8	8	8	8	8	8	8	8
233902_10003_CCBTVA4	4	8	8	8	8	8	8	8	8	8	8
40193694001_9996	4	8	8	8	8	8	8	8	8	8	8
40193697001_9996	4	8	8	8	8	8	8	8	8	8	8
40193698001_9996	4	8	8	8	8	8	8	8	8	8	8
40193698002_9996	4	8	8	8	8	8	8	8	8	8	8
233908_10003_CCV5	4	8	8	8	8	8	8	8	8	8	8

233902_10003_CCBTVA5	4	8	8	8	8	8	8	8	8	8	8
233903_10003_CRDL_A2	4	8	8	8	8	8	8	8	8	8	8
233904_10003_CRDL_B2	4	8	8	8	8	8	8	8	8	8	8
233407_10003_ICSA2	4	8	8	8	8	8	8	8	8	8	8
233596_10003_ICSAB2	4	8	8	8	8	8	8	8	8	8	8
233908_10003_CCV6	4	8	8	8	8	8	8	8	8	8	8
233902_10003_CCBTVA6	4	8	8	8	8	8	8	8	8	8	8
Label	**Config**	**159Tb**	**184W**	**195Pt**	**201Hg**	**205Tl**	**206Pb**	**207Pb**	**208Pb**	**209Bi**	**238U**
233902_10003_Cal0	4	8	8	8	8	8	8	8	8	8	8
233903_10003_Cal1	4	8	8	8	8	8	8	8	8	8	8
233904_10003_Cal2	4	8	8	8	8	8	8	8	8	8	8
233905_10003_Cal3	4	8	8	8	8	8	8	8	8	8	8
233906_10003_Cal4	4	8	8	8	8	8	8	8	8	8	8
233907_10003_Cal5	4	8	8	8	8	8	8	8	8	8	8
233143_10003_ICV	4	8	8	8	8	8	8	8	8	8	8
233902_10003_ICBTVA	4	8	8	8	8	8	8	8	8	8	8
233903_10003_CRDL_A1	4	8	8	8	8	8	8	8	8	8	8
233904_10003_CRDL_B1	4	8	8	8	8	8	8	8	8	8	8
233407_10003_ICSA1	4	8	8	8	8	8	8	8	8	8	8
233596_10003_ICSAB1	4	8	8	8	8	8	8	8	8	8	8
233908_10003_CCV1	4	8	8	8	8	8	8	8	8	8	8
233902_10003_CCBTVA1	4	8	8	8	8	8	8	8	8	8	8
1925391_9996	4	8	8	8	8	8	8	8	8	8	8
40193365013_9996	4	8	8	8	8	8	8	8	8	8	8
40193369013_9996	4	8	8	8	8	8	8	8	8	8	8
1925392_9996	4	8	8	8	8	8	8	8	8	8	8
1925393_9996	4	8	8	8	8	8	8	8	8	8	8
1925394_9996x2	4	8	8	8	8	8	8	8	8	8	8
1925394_9996	4	8	8	8	8	8	8	8	8	8	8
233908_10003_CCV2	4	8	8	8	8	8	8	8	8	8	8
233902_10003_CCBTVA2	4	8	8	8	8	8	8	8	8	8	8
40193369001_9996x2	4	8	8	8	8	8	8	8	8	8	8
1925395_9996x2	4	8	8	8	8	8	8	8	8	8	8
1925396_9996x2	4	8	8	8	8	8	8	8	8	8	8
1926315_9996x2	4	8	8	8	8	8	8	8	8	8	8
40193369001_9996	4	8	8	8	8	8	8	8	8	8	8
1925395_9996	4	8	8	8	8	8	8	8	8	8	8
1925396_9996	4	8	8	8	8	8	8	8	8	8	8
1926315_9996	4	8	8	8	8	8	8	8	8	8	8
40193369002_9996	4	8	8	8	8	8	8	8	8	8	8
1926316_9996x5	4	8	8	8	8	8	8	8	8	8	8
233908_10003_CCV3	4	8	8	8	8	8	8	8	8	8	8
233902_10003_CCBTVA3	4	8	8	8	8	8	8	8	8	8	8
40193369003_9996	4	8	8	8	8	8	8	8	8	8	8
40193369004_9996	4	8	8	8	8	8	8	8	8	8	8
40193369005_9996	4	8	8	8	8	8	8	8	8	8	8
40193369006_9996	4	8	8	8	8	8	8	8	8	8	8
40193369007_9996	4	8	8	8	8	8	8	8	8	8	8
40193369008_9996	4	8	8	8	8	8	8	8	8	8	8
40193369009_9996	4	8	8	8	8	8	8	8	8	8	8
40193369010_9996	4	8	8	8	8	8	8	8	8	8	8
40193369011_9996	4	8	8	8	8	8	8	8	8	8	8
40193369012_9996	4	8	8	8	8	8	8	8	8	8	8
233908_10003_CCV4	4	8	8	8	8	8	8	8	8	8	8
233902_10003_CCBTVA4	4	8	8	8	8	8	8	8	8	8	8
40193694001_9996	4	8	8	8	8	8	8	8	8	8	8
40193697001_9996	4	8	8	8	8	8	8	8	8	8	8
40193698001_9996	4	8	8	8	8	8	8	8	8	8	8
40193698002_9996	4	8	8	8	8	8	8	8	8	8	8
233908_10003_CCV5	4	8	8	8	8	8	8	8	8	8	8
233902_10003_CCBTVA5	4	8	8	8	8	8	8	8	8	8	8
233903_10003_CRDL_A2	4	8	8	8	8	8	8	8	8	8	8
233904_10003_CRDL_B2	4	8	8	8	8	8	8	8	8	8	8
233407_10003_ICSA2	4	8	8	8	8	8	8	8	8	8	8
233596_10003_ICSAB2	4	8	8	8	8	8	8	8	8	8	8
233908_10003_CCV6	4	8	8	8	8	8	8	8	8	8	8
233902_10003_CCBTVA6	4	8	8	8	8	8	8	8	8	8	8

Configuration 4 - CCT2

Minimum uptake 0
Maximum uptake 20
Minimum wash 80
Maximum wash 200

ACL Script

Title Fast uptake wash
Description Data acquisition using the peri pump at high speed for the washes and uptakes
Author paceuser
Version 1

Settings sets

Id	Description	Extraction	Lens 1	Lens 2	Lens 3	Pole Bias	Sampling Depth	Horizontal	Vertical	Cool	Auxiliary
7	CCT Mode 08302019	-165.00	-1070.00	-80.00	-195.30	-9.00	145.00	17.00	472.00	13.00	0.70
8	CCTKED Mode 08302019	-165.00	-1070.00	-80.00	-195.30	-17.00	145.00	17.00	472.00	13.00	0.70

Id	Description	Nebuliser	Forward power	D1	Focus	CCT Gas 1	CCT Gas 2	D2	DA	Hexapole Bias
7	CCT Mode 08302019	0.73	1400.00	-50.20	9.60	0.00	0.30	-143.00	-36.90	-4.00
8	CCTKED Mode 08302019	0.73	1400.00	-57.30	-5.70	0.00	3.60	-143.00	-36.90	-20.00

Fully Quantitative Concentrations

Id	Label	Li	Be	B	Na	Mg	Al	Si	P	K	Ca
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	233902_10003_Cal0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2	233903_10003_Cal1	1.000	1.000		250.000	250.000	250.000	50.000	50.000	250.000	250.000
3	233904_10003_Cal2	5.000	5.000	5.000	500.000	500.000	500.000	250.000	250.000	500.000	500.000
4	233905_10003_Cal3	50.000	50.000	50.000	2500.000	2500.000	2500.000	2500.000	2500.000	2500.000	2500.000
5	233906_10003_Cal4	250.000	250.000	250.000	12500.000	12500.000	12500.000	12500.000	12500.000	12500.000	12500.000
6	233907_10003_Cal5	500.000	500.000	500.000	25000.000	25000.000	25000.000	25000.000	25000.000	25000.000	25000.000

Id	Label	Ti	V	Cr	Mn	Fe	Co	Ni	Cu	Zn	As
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	233902_10003_Cal0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2	233903_10003_Cal1	1.000	1.000	1.000	1.000	250.000	1.000	1.000	1.000		1.000
3	233904_10003_Cal2	5.000	5.000	5.000	5.000	500.000	5.000	5.000	5.000	5.000	5.000
4	233905_10003_Cal3	50.000	50.000	50.000	50.000	2500.000	50.000	50.000	50.000	50.000	50.000
5	233906_10003_Cal4	250.000	250.000	250.000	250.000	12500.000	250.000	250.000	250.000	250.000	250.000
6	233907_10003_Cal5	500.000	500.000	500.000	500.000	25000.000	500.000	500.000	500.000	500.000	500.000

Id	Label	Se	Sr	Zr	Mo	Pd	Ag	Cd	Sn	Sb	Ba
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	233902_10003_Cal0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2	233903_10003_Cal1	1.000	1.000	1.000	1.000	1.000	0.500	1.000	1.000	1.000	1.000
3	233904_10003_Cal2	5.000	5.000	5.000	5.000	5.000	2.500	5.000	5.000	5.000	5.000
4	233905_10003_Cal3	50.000	50.000	50.000	50.000	50.000	25.000	50.000	50.000	50.000	50.000
5	233906_10003_Cal4	250.000	250.000	250.000	250.000	250.000	125.000	250.000	250.000	250.000	250.000
6	233907_10003_Cal5	500.000	500.000	500.000	500.000	500.000	250.000	500.000	500.000	500.000	500.000

Id	Label	Pt	Hg	Tl	Pb	U
		ppb	ppb	ppb	ppb	ppb
1	233902_10003_Cal0	0.000	0.000	0.000	0.000	0.000
2	233903_10003_Cal1	1.000	0.200	1.000	1.000	1.000
3	233904_10003_Cal2	5.000	0.500	5.000	5.000	5.000
4	233905_10003_Cal3	50.000	1.000	50.000	50.000	50.000
5	233906_10003_Cal4	250.000	10.000	250.000	250.000	250.000
6	233907_10003_Cal5	500.000	25.000	500.000	500.000	500.000

Calibration Technique

Use External Drift Correction - No
Calibrate by - Isotope

Symbol	Interference Correction	RSF	Calibration Method	Line Fit	Weighting	Forcing	Use for Semi-Quant	Max Error	Minimum Correlation
7Li	Yes	0.36	Fully-Quantified	Linear	Absolute SD	None	Yes		0.998000
9Be	Yes	0.07	Fully-Quantified	Linear	Absolute SD	None	Yes		0.998000
10B	Yes	0.13	Fully-Quantified	Linear	Absolute SD	None	Yes		0.998000

23Na	Yes	0.55	Fully-Quantified	Linear	Absolute SD	None	Yes	0.998000
25Mg	Yes	0.49	Fully-Quantified	Linear	Absolute SD	None	Yes	0.998000
27Al	Yes	0.45	Fully-Quantified	Linear	Absolute SD	None	Yes	0.998000
28Si	Yes	0.20	Fully-Quantified	Linear	Absolute SD	None	Yes	0.998000
31P	Yes	0.02	Fully-Quantified	Linear	Absolute SD	None	Yes	0.998000
34S	Yes	0.04	Semi-Quantified				No	
35Cl	Yes	0.00	Semi-Quantified				No	
39K	Yes	0.38	Fully-Quantified	Linear	Absolute SD	None	Yes	0.998000
43Ca	Yes	0.81	Fully-Quantified	Linear	Absolute SD	None	Yes	0.998000
45Sc-KED	Yes	0.60	None				No	
47Ti	Yes	0.38	Fully-Quantified	Linear	Absolute SD	None	Yes	0.998000
51V	Yes	0.39	Fully-Quantified	Linear	Absolute SD	None	Yes	0.998000
52Cr	Yes	0.46	Fully-Quantified	Linear	Absolute SD	None	Yes	0.998000
55Mn	Yes	0.70	Fully-Quantified	Linear	Absolute SD	None	Yes	0.998000
54Fe	Yes	0.60	Fully-Quantified	Linear	Absolute SD	None	Yes	0.998000
59Co	Yes	0.42	Fully-Quantified	Linear	Absolute SD	None	Yes	0.998000
60Ni	Yes	0.33	Fully-Quantified	Linear	Absolute SD	None	Yes	0.998000
63Cu	Yes	0.33	Fully-Quantified	Linear	Absolute SD	None	Yes	0.998000
66Zn	Yes	0.35	Fully-Quantified	Linear	Absolute SD	None	Yes	0.998000
72Ge	Yes	0.35	None				No	
73Ge	Yes	0.35	None				No	
75As	Yes	0.05	Fully-Quantified	Linear	Absolute SD	None	Yes	0.998000
78Se	Yes	0.07	Fully-Quantified	Linear	Absolute SD	None	Yes	0.998000
83Kr	Yes	0.00	None				No	
88Sr	Yes	0.66	Fully-Quantified	Linear	Absolute SD	None	Yes	0.998000
89Y	Yes	0.74	None				No	
90Zr	Yes	0.61	Fully-Quantified	Linear	Absolute SD	None	Yes	0.998000
95Mo	Yes	0.63	Fully-Quantified	Linear	Absolute SD	None	Yes	0.998000
105Pd	Yes	0.48	Fully-Quantified	Linear	Absolute SD	None	Yes	0.998000
107Ag	Yes	0.45	Fully-Quantified	Linear	Absolute SD	None	Yes	0.998000
111Cd	Yes	0.55	Fully-Quantified	Linear	Absolute SD	None	Yes	0.998000
115In	Yes	0.77	None				No	
118Sn	Yes	0.69	Fully-Quantified	Linear	Absolute SD	None	Yes	0.998000
121Sb	Yes	0.34	Fully-Quantified	Linear	Absolute SD	None	Yes	0.998000
137Ba	Yes	0.53	Fully-Quantified	Linear	Absolute SD	None	Yes	0.998000
159Tb	Yes	0.90	None				No	
184W	Yes	0.71	Semi-Quantified				No	
195Pt	Yes	0.30	Fully-Quantified	Linear	Absolute SD	None	Yes	0.998000
201Hg	Yes	0.06	Fully-Quantified	Linear	Absolute SD	None	Yes	0.998000
206Pb	Yes	0.55	Fully-Quantified	Linear	Absolute SD	None	Yes	0.998000
207Pb	Yes	0.55	Fully-Quantified	Linear	Absolute SD	None	Yes	0.998000
208Pb	Yes	0.55	Fully-Quantified	Linear	Absolute SD	None	Yes	0.998000
209Bi	Yes	0.45	None				No	
238U	Yes	0.65	Fully-Quantified	Linear	Absolute SD	None	Yes	0.998000
205Tl	Yes	0.58	Fully-Quantified	Linear	Absolute SD	None	Yes	0.998000
53Cl O	Yes		Semi-Quantified				No	
45Sc-CCT	Yes	0.60	None				No	

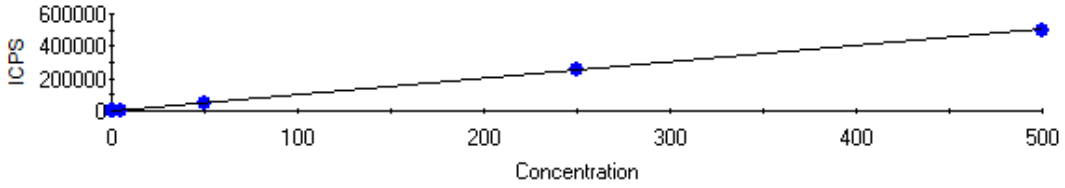
Sample List

No	Label	Type	Weight	Rack	Row	Col	Height
1	233902_10003_Cal0	Fully Quant Standard	1.000	0	1	8	144
2	233903_10003_Cal1	Fully Quant Standard	1.000	0	1	2	144
3	233904_10003_Cal2	Fully Quant Standard	1.000	0	1	3	144
4	233905_10003_Cal3	Fully Quant Standard	1.000	0	1	4	144
5	233906_10003_Cal4	Fully Quant Standard	1.000	0	1	5	144
6	233907_10003_Cal5	Fully Quant Standard	1.000	0	1	6	144
7	233143_10003_ICV	Unknown	1.000	1	1	1	144
8	233902_10003_ICBTVA	Unknown	1.000	0	1	8	144
9	233903_10003_CRDL_A1	Unknown	1.000	0	1	2	144
10	233904_10003_CRDL_B1	Unknown	1.000	0	1	3	144
11	233407_10003_ICSA1	Unknown	1.000	1	1	2	144
12	233596_10003_ICSAB1	Unknown	1.000	1	1	3	144
13	233908_10003_CCV1	Unknown	1.000	0	1	7	144
14	233902_10003_CCBTVA1	Unknown	1.000	0	1	1	144
15	1925391_9996	Unknown	1.000	3	1	1	144
16	40193365013_9996	Unknown	1.000	3	3	6	144
17	40193369013_9996	Unknown	1.000	3	3	7	144
18	1925392_9996	Unknown	1.000	3	1	2	144
19	1925393_9996	Unknown	1.000	3	1	3	144
20	1925394_9996x2	Unknown	1.000	3	1	4	144
21	1925394_9996	Unknown	1.000	3	1	5	144
22	233908_10003_CCV2	Unknown	1.000	0	1	7	144
23	233902_10003_CCBTVA2	Unknown	1.000	0	1	1	144
24	40193369001_9996x2	Unknown	1.000	3	1	6	144
25	1925395_9996x2	Unknown	1.000	3	1	7	144

26	1925396_9996x2	Unknown	1.000	3	1	8	144
27	1926315_9996x2	Unknown	1.000	3	1	9	144
28	40193369001_9996	Unknown	1.000	3	1	10	144
29	1925395_9996	Unknown	1.000	3	1	11	144
30	1925396_9996	Unknown	1.000	3	1	12	144
31	1926315_9996	Unknown	1.000	3	2	1	144
32	40193369002_9996	Unknown	1.000	3	2	2	144
33	1926316_9996x5	Unknown	1.000	3	2	3	144
34	233908_10003_CCV3	Unknown	1.000	0	1	7	144
35	233902_10003_CCBTVA3	Unknown	1.000	0	1	1	144
36	40193369003_9996	Unknown	1.000	3	2	4	144
37	40193369004_9996	Unknown	1.000	3	2	5	144
38	40193369005_9996	Unknown	1.000	3	2	6	144
39	40193369006_9996	Unknown	1.000	3	2	7	144
40	40193369007_9996	Unknown	1.000	3	2	8	144
41	40193369008_9996	Unknown	1.000	3	2	9	144
42	40193369009_9996	Unknown	1.000	3	2	10	144
43	40193369010_9996	Unknown	1.000	3	2	11	144
44	40193369011_9996	Unknown	1.000	3	2	12	144
45	40193369012_9996	Unknown	1.000	3	3	1	144
46	233908_10003_CCV4	Unknown	1.000	0	1	7	144
47	233902_10003_CCBTVA4	Unknown	1.000	0	1	1	144
48	40193694001_9996	Unknown	1.000	3	3	2	144
49	40193697001_9996	Unknown	1.000	3	3	3	144
50	40193698001_9996	Unknown	1.000	3	3	4	144
51	40193698002_9996	Unknown	1.000	3	3	5	144
52	233908_10003_CCV5	Unknown	1.000	0	1	7	144
53	233902_10003_CCBTVA5	Unknown	1.000	0	1	1	144
54	233903_10003_CRDL_A2	Unknown	1.000	0	1	2	144
55	233904_10003_CRDL_B2	Unknown	1.000	0	1	3	144
56	233407_10003_ICSA2	Unknown	1.000	1	1	4	144
57	233596_10003_ICSAB2	Unknown	1.000	1	1	5	144
58	233908_10003_CCV6	Unknown	1.000	0	1	7	144
59	233902_10003_CCBTVA6	Unknown	1.000	0	1	1	144

Fully Quant Calibration

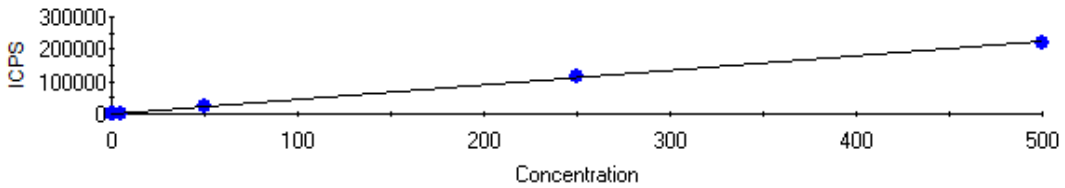
7Li FQ Block 1



Intercept CPS=94.612516 Intercept Conc=0.093551
Sensitivity=1011.344843 Correlation Coeff=0.999932

Label	Defined	Measured	Error	Mean CPS	% Error
233902_10003_Cal0	0.000	0.000	0.000	94.65	0.00
233903_10003_Cal1	1.000	0.996	0.004	1101.85	0.41
233904_10003_Cal2	5.000	5.112	0.112	5264.44	2.24
233905_10003_Cal3	50.000	51.094	1.094	51768.66	2.19
233906_10003_Cal4	250.000	250.035	0.035	252966.16	0.01
233907_10003_Cal5	500.000	488.299	11.701	493932.84	2.34

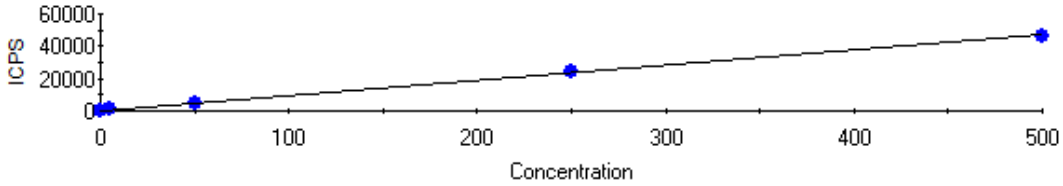
9Be FQ Block 1



Intercept CPS=38.984931 Intercept Conc=0.086186
Sensitivity=452.335606 Correlation Coeff=0.999787

Label	Defined	Measured	Error	Mean CPS	% Error
233902_10003_Cal0	0.000	-0.003	0.003	37.84	0.00
233903_10003_Cal1	1.000	1.012	0.012	496.79	1.21
233904_10003_Cal2	5.000	5.068	0.068	2331.55	1.37
233905_10003_Cal3	50.000	52.668	2.668	23862.82	5.34
233906_10003_Cal4	250.000	252.294	2.294	114160.42	0.92
233907_10003_Cal5	500.000	484.155	15.845	219039.73	3.17

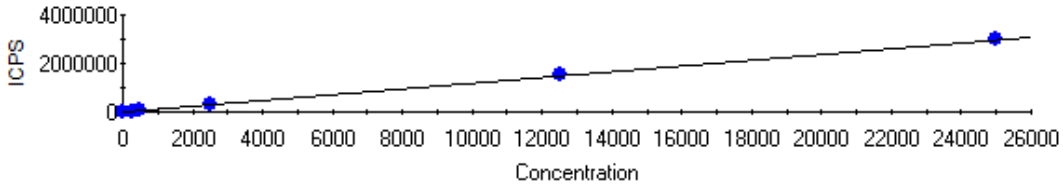
10B FQ Block 1



Intercept CPS=156.994142 Intercept Conc=1.679536
Sensitivity=93.474698 Correlation Coeff=0.999869

Label	Defined	Measured	Error	Mean CPS	% Error
233902_10003_Cal0	0.000	-0.125	0.125	145.31	0.00
233904_10003_Cal2	5.000	5.001	0.001	624.46	0.02
233905_10003_Cal3	50.000	53.405	3.405	5149.05	6.81
233906_10003_Cal4	250.000	255.239	5.239	24015.38	2.10
233907_10003_Cal5	500.000	495.020	4.980	46428.83	1.00

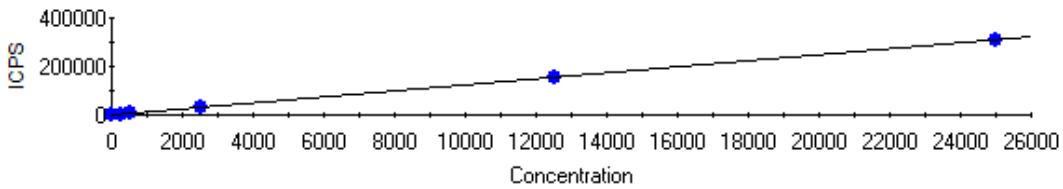
23Na FQ Block 1



Intercept CPS=1643.988583 Intercept Conc=13.790285
Sensitivity=119.213530 Correlation Coeff=0.999984

Label	Defined	Measured	Error	Mean CPS	% Error
233902_10003_Cal0	0.000	-0.191	0.191	1621.16	0.00
233903_10003_Cal1	250.000	257.768	7.768	32373.38	3.11
233904_10003_Cal2	500.000	517.056	17.056	63284.01	3.41
233905_10003_Cal3	2500.000	2574.458	74.458	308554.24	2.98
233906_10003_Cal4	12500.000	12632.432	132.432	1507600.84	1.06
233907_10003_Cal5	25000.000	24981.697	18.303	2979800.27	0.07

25Mg FQ Block 1

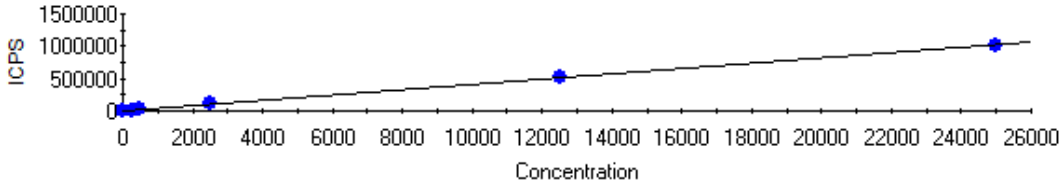


Intercept CPS=187.476484 Intercept Conc=15.266244
Sensitivity=12.280459 Correlation Coeff=0.999970

Label	Defined	Measured	Error	Mean CPS	% Error
233902_10003_Cal0	0.000	-1.286	1.286	171.68	0.00
233903_10003_Cal1	250.000	255.388	5.388	3323.76	2.16
233904_10003_Cal2	500.000	524.710	24.710	6631.16	4.94
233905_10003_Cal3	2500.000	2590.296	90.296	31997.50	3.61

233906_10003_Cal4	12500.000	12622.489	122.489	155197.44	0.98
233907_10003_Cal5	25000.000	24861.837	138.163	305502.24	0.55

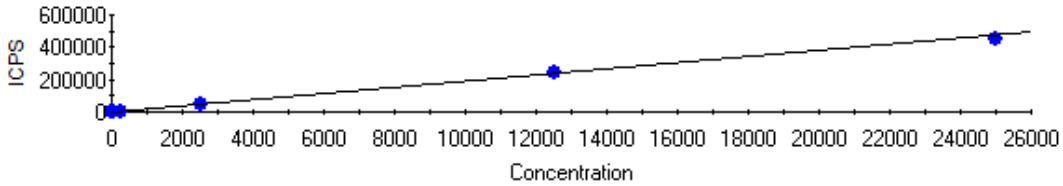
27Al FQ Block 1



Intercept CPS=368.296048 Intercept Conc=8.948918
Sensitivity=41.155371 Correlation Coeff=0.999990

Label	Defined	Measured	Error	Mean CPS	% Error
233902_10003_Cal0	0.000	-0.148	0.148	362.19	0.00
233903_10003_Cal1	250.000	256.721	6.721	10933.74	2.69
233904_10003_Cal2	500.000	523.660	23.660	21919.71	4.73
233905_10003_Cal3	2500.000	2530.741	30.741	104521.87	1.23
233906_10003_Cal4	12500.000	12456.298	43.702	513011.87	0.35
233907_10003_Cal5	25000.000	24687.922	312.078	1016408.87	1.25

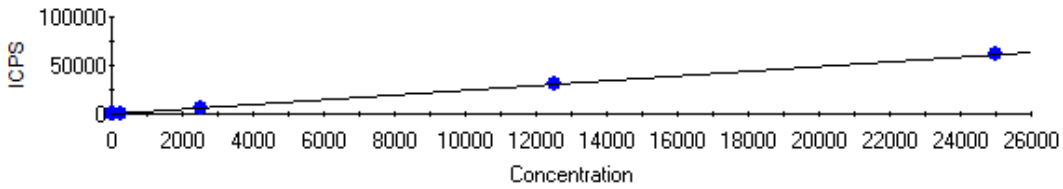
28Si FQ Block 1



Intercept CPS=367.999192 Intercept Conc=19.191305
Sensitivity=19.175309 Correlation Coeff=0.999789

Label	Defined	Measured	Error	Mean CPS	% Error
233902_10003_Cal0	0.000	-3.622	3.622	298.55	0.00
233903_10003_Cal1	50.000	47.441	2.559	1277.70	5.12
233904_10003_Cal2	250.000	256.407	6.407	5284.69	2.56
233905_10003_Cal3	2500.000	2576.959	76.959	49781.98	3.08
233906_10003_Cal4	12500.000	12329.635	170.365	236792.55	1.36
233907_10003_Cal5	25000.000	23665.910	1334.090	454169.12	5.34

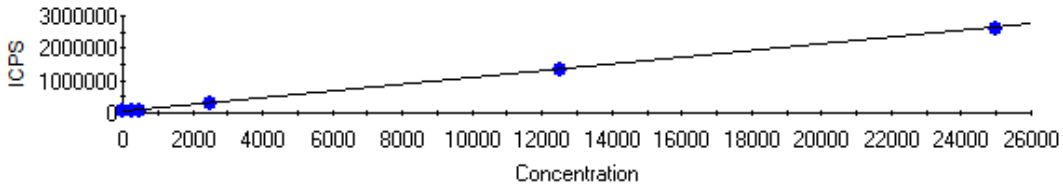
31P FQ Block 1



Intercept CPS=108.114487 Intercept Conc=43.802541
Sensitivity=2.468224 Correlation Coeff=0.999859

Label	Defined	Measured	Error	Mean CPS	% Error
233902_10003_Cal0	0.000	-7.466	7.466	89.69	0.00
233903_10003_Cal1	50.000	47.314	2.686	224.90	5.37
233904_10003_Cal2	250.000	258.080	8.080	745.11	3.23
233905_10003_Cal3	2500.000	2616.535	116.535	6566.31	4.66
233906_10003_Cal4	12500.000	12679.571	179.571	31404.14	1.44
233907_10003_Cal5	25000.000	24517.326	482.674	60622.37	1.93

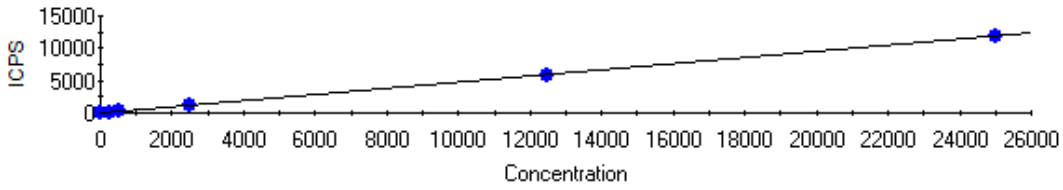
39K FQ Block 1



Intercept CPS=31898.695043 Intercept Conc=303.938314
Sensitivity=104.951214 Correlation Coeff=0.999987

Label	Defined	Measured	Error	Mean CPS	% Error
233902_10003_Cal0	0.000	-20.596	20.596	29737.07	0.00
233903_10003_Cal1	250.000	243.668	6.332	57471.92	2.53
233904_10003_Cal2	500.000	502.434	2.434	84629.75	0.49
233905_10003_Cal3	2500.000	2484.802	15.198	292681.66	0.61
233906_10003_Cal4	12500.000	12366.128	133.872	1329738.89	1.07
233907_10003_Cal5	25000.000	24487.265	512.735	2601866.88	2.05

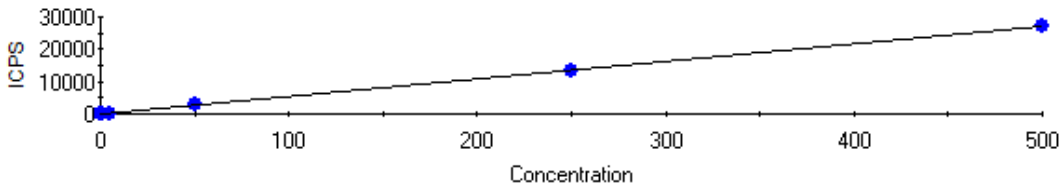
43Ca FQ Block 1



Intercept CPS=5.382664 Intercept Conc=11.344929
Sensitivity=0.474456 Correlation Coeff=0.999985

Label	Defined	Measured	Error	Mean CPS	% Error
233902_10003_Cal0	0.000	-0.474	0.474	5.16	0.00
233903_10003_Cal1	250.000	252.650	2.650	125.25	1.06
233904_10003_Cal2	500.000	538.354	38.354	260.81	7.67
233905_10003_Cal3	2500.000	2500.112	0.112	1191.57	0.00
233906_10003_Cal4	12500.000	12406.298	93.702	5891.62	0.75
233907_10003_Cal5	25000.000	25075.413	75.413	11902.55	0.30

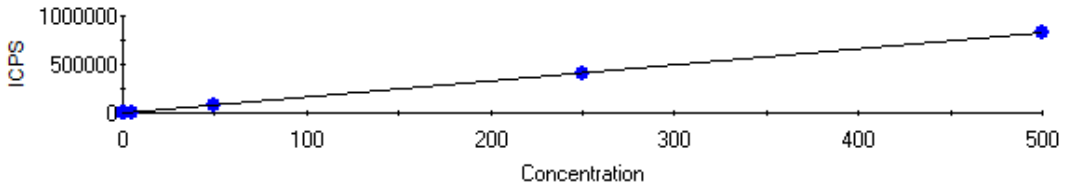
47Ti FQ Block 1



Intercept CPS=8.398784 Intercept Conc=0.155719
Sensitivity=53.935427 Correlation Coeff=0.999995

Label	Defined	Measured	Error	Mean CPS	% Error
233902_10003_Cal0	0.000	-0.011	0.011	7.83	0.00
233903_10003_Cal1	1.000	1.044	0.044	64.71	4.40
233904_10003_Cal2	5.000	5.025	0.025	279.41	0.49
233905_10003_Cal3	50.000	51.535	1.535	2787.98	3.07
233906_10003_Cal4	250.000	250.771	0.771	13533.86	0.31
233907_10003_Cal5	500.000	499.868	0.132	26968.97	0.03

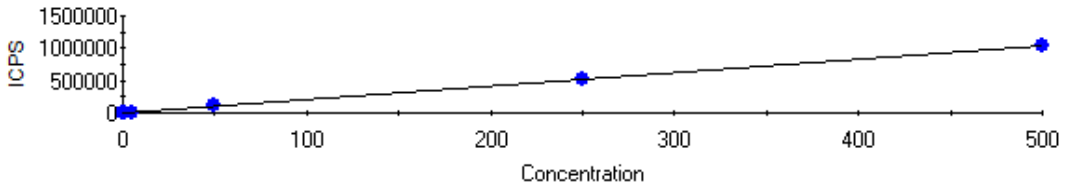
51V FQ Block 1



Intercept CPS=293.773648 Intercept Conc=0.179630
Sensitivity=1635.437811 Correlation Coeff=0.999999

Label	Defined	Measured	Error	Mean CPS	% Error
233902_10003_Cal0	0.000	-0.013	0.013	273.20	0.00
233903_10003_Cal1	1.000	0.963	0.037	1868.19	3.73
233904_10003_Cal2	5.000	5.026	0.026	8513.68	0.52
233905_10003_Cal3	50.000	49.862	0.138	81840.69	0.28
233906_10003_Cal4	250.000	249.923	0.077	409027.60	0.03
233907_10003_Cal5	500.000	500.936	0.936	819543.60	0.19

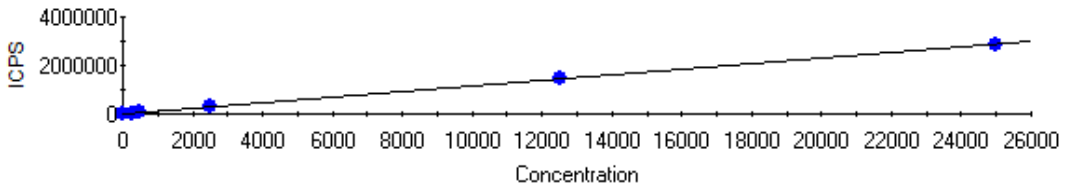
52Cr FQ Block 1



Intercept CPS=44.037026 Intercept Conc=0.021386
Sensitivity=2059.117994 Correlation Coeff=0.999995

Label	Defined	Measured	Error	Mean CPS	% Error
233902_10003_Cal0	0.000	0.046	0.046	137.77	0.00
233903_10003_Cal1	1.000	0.987	0.013	2076.58	1.29
233904_10003_Cal2	5.000	5.038	0.038	10418.06	0.76
233905_10003_Cal3	50.000	50.364	0.364	103749.05	0.73
233906_10003_Cal4	250.000	249.343	0.657	513471.28	0.26
233907_10003_Cal5	500.000	502.036	2.036	1033794.41	0.41

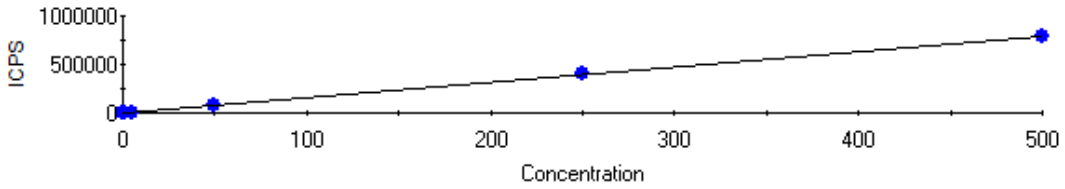
54Fe FQ Block 1



Intercept CPS=1252.907342 Intercept Conc=10.781497
Sensitivity=116.209038 Correlation Coeff=0.999956

Label	Defined	Measured	Error	Mean CPS	% Error
233902_10003_Cal0	0.000	-0.174	0.174	1232.64	0.00
233903_10003_Cal1	250.000	250.515	0.515	30365.05	0.21
233904_10003_Cal2	500.000	510.719	10.719	60603.07	2.14
233905_10003_Cal3	2500.000	2520.620	20.620	294171.76	0.82
233906_10003_Cal4	12500.000	12514.209	14.209	1455517.07	0.11
233907_10003_Cal5	25000.000	24542.444	457.556	2853306.78	1.83

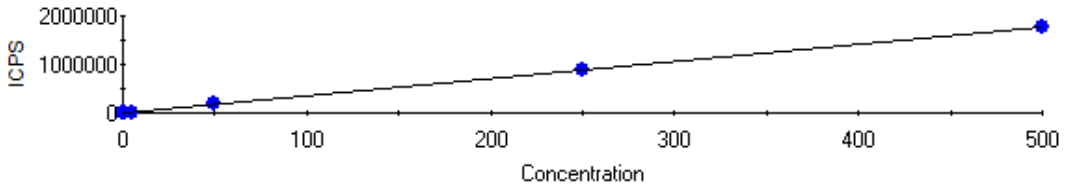
55Mn FQ Block 1



Intercept CPS=158.937372 Intercept Conc=0.100206
Sensitivity=1586.102673 Correlation Coeff=0.999995

Label	Defined	Measured	Error	Mean CPS	% Error
233902_10003_Cal0	0.000	-0.000	0.000	158.93	0.00
233903_10003_Cal1	1.000	0.986	0.014	1722.77	1.40
233904_10003_Cal2	5.000	5.058	0.058	8181.09	1.16
233905_10003_Cal3	50.000	49.999	0.001	79462.05	0.00
233906_10003_Cal4	250.000	249.535	0.465	395947.22	0.19
233907_10003_Cal5	500.000	502.469	2.469	797126.29	0.49

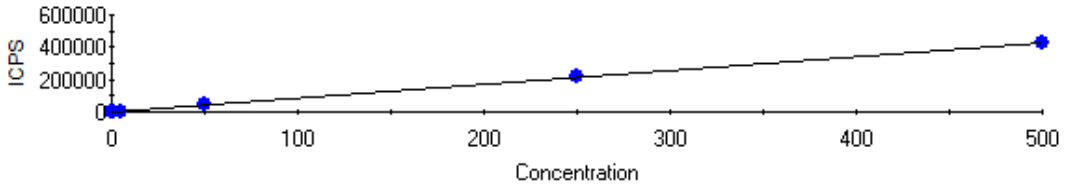
59Co FQ Block 1



Intercept CPS=289.794418 Intercept Conc=0.082281
Sensitivity=3521.999211 Correlation Coeff=0.999999

Label	Defined	Measured	Error	Mean CPS	% Error
233902_10003_Cal0	0.000	0.000	0.000	290.97	0.00
233903_10003_Cal1	1.000	0.964	0.036	3683.41	3.65
233904_10003_Cal2	5.000	5.018	0.018	17962.22	0.35
233905_10003_Cal3	50.000	49.778	0.222	175607.77	0.44
233906_10003_Cal4	250.000	249.204	0.796	877987.76	0.32
233907_10003_Cal5	500.000	499.568	0.432	1759767.65	0.09

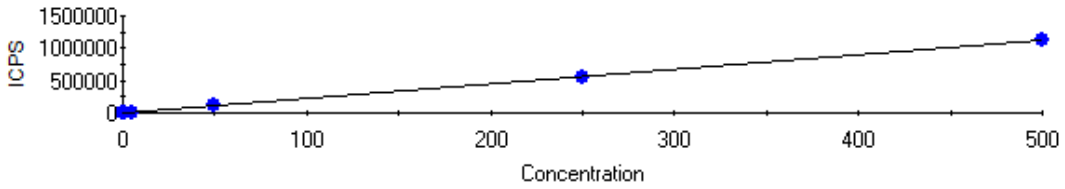
60Ni FQ Block 1



Intercept CPS=148.336370 Intercept Conc=0.172600
Sensitivity=859.422040 Correlation Coeff=0.999999

Label	Defined	Measured	Error	Mean CPS	% Error
233902_10003_Cal0	0.000	0.000	0.000	148.69	0.00
233903_10003_Cal1	1.000	0.963	0.037	975.87	3.71
233904_10003_Cal2	5.000	5.061	0.061	4497.83	1.22
233905_10003_Cal3	50.000	50.631	0.631	43661.63	1.26
233906_10003_Cal4	250.000	249.422	0.578	214507.15	0.23
233907_10003_Cal5	500.000	498.207	1.793	428318.78	0.36

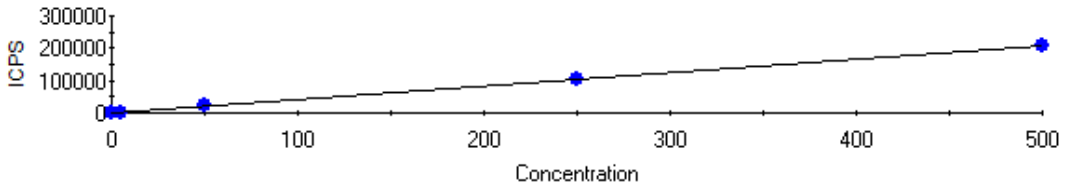
63Cu FQ Block 1



Intercept CPS=363.352041 Intercept Conc=0.161658
Sensitivity=2247.659800 Correlation Coeff=0.999998

Label	Defined	Measured	Error	Mean CPS	% Error
233902_10003_Cal0	0.000	0.007	0.007	379.97	0.00
233903_10003_Cal1	1.000	0.951	0.049	2501.15	4.89
233904_10003_Cal2	5.000	5.591	0.591	12929.26	11.81
233905_10003_Cal3	50.000	50.196	0.196	113186.96	0.39
233906_10003_Cal4	250.000	247.521	2.479	556705.89	0.99
233907_10003_Cal5	500.000	495.728	4.272	1114591.68	0.85

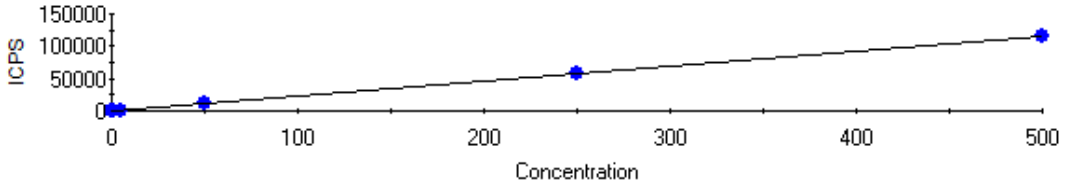
66Zn FQ Block 1



Intercept CPS=436.463282 Intercept Conc=1.050798
Sensitivity=415.363799 Correlation Coeff=0.999999

Label	Defined	Measured	Error	Mean CPS	% Error
233902_10003_Cal0	0.000	-0.052	0.052	414.79	0.00
233904_10003_Cal2	5.000	5.040	0.040	2529.91	0.80
233905_10003_Cal3	50.000	50.136	0.136	21261.07	0.27
233906_10003_Cal4	250.000	249.911	0.089	104240.40	0.04
233907_10003_Cal5	500.000	498.531	1.469	207508.27	0.29

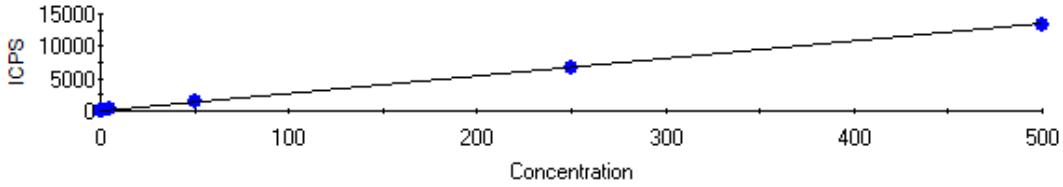
75As FQ Block 1



Intercept CPS=118.780246 Intercept Conc=0.513619
Sensitivity=231.261170 Correlation Coeff=0.999998

Label	Defined	Measured	Error	Mean CPS	% Error
233902_10003_Cal0	0.000	0.005	0.005	119.88	0.00
233903_10003_Cal1	1.000	0.998	0.002	349.58	0.20
233904_10003_Cal2	5.000	5.042	0.042	1284.86	0.85
233905_10003_Cal3	50.000	50.771	0.771	11860.11	1.54
233906_10003_Cal4	250.000	249.273	0.727	57765.97	0.29
233907_10003_Cal5	500.000	499.833	0.167	115710.66	0.03

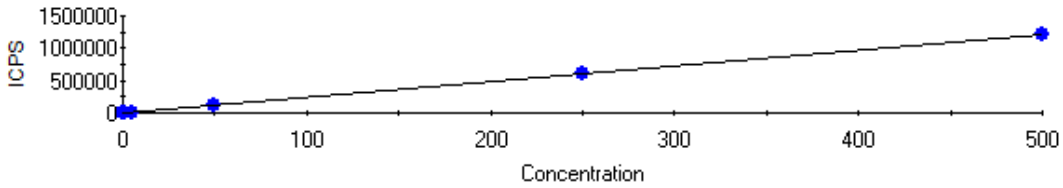
78Se FQ Block 1



Intercept CPS=7.321041 Intercept Conc=0.268120
Sensitivity=27.305122 Correlation Coeff=0.999985

Label	Defined	Measured	Error	Mean CPS	% Error
233902_10003_Cal0	0.000	-0.008	0.008	7.10	0.00
233903_10003_Cal1	1.000	0.919	0.081	32.42	8.10
233904_10003_Cal2	5.000	5.313	0.313	152.40	6.27
233905_10003_Cal3	50.000	50.643	0.643	1390.13	1.29
233906_10003_Cal4	250.000	246.298	3.702	6732.52	1.48
233907_10003_Cal5	500.000	487.684	12.316	13323.58	2.46

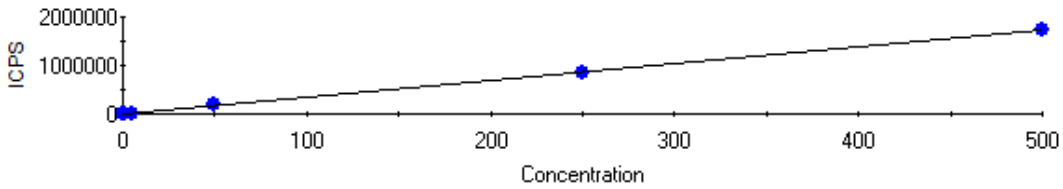
88Sr FQ Block 1



Intercept CPS=334.243330 Intercept Conc=0.138840
Sensitivity=2407.404791 Correlation Coeff=0.999985

Label	Defined	Measured	Error	Mean CPS	% Error
233902_10003_Cal0	0.000	0.003	0.003	341.54	0.00
233903_10003_Cal1	1.000	0.946	0.054	2610.97	5.43
233904_10003_Cal2	5.000	4.981	0.019	12324.42	0.39
233905_10003_Cal3	50.000	49.711	0.289	120008.75	0.58
233906_10003_Cal4	250.000	249.086	0.914	599985.41	0.37
233907_10003_Cal5	500.000	504.067	4.067	1213828.58	0.81

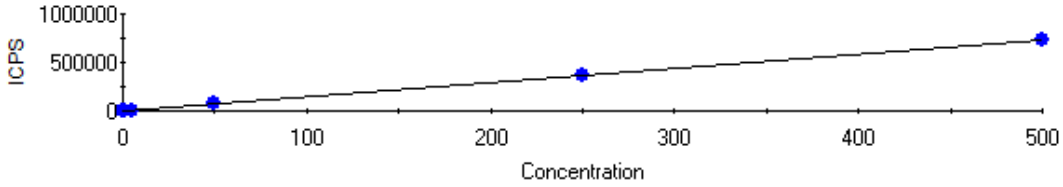
90Zr FQ Block 1



Intercept CPS=507.626212 Intercept Conc=0.147030
Sensitivity=3452.524873 Correlation Coeff=1.000000

Label	Defined	Measured	Error	Mean CPS	% Error
233902_10003_Cal0	0.000	0.000	0.000	508.50	0.00
233903_10003_Cal1	1.000	0.953	0.047	3797.34	4.72
233904_10003_Cal2	5.000	5.034	0.034	17888.44	0.68
233905_10003_Cal3	50.000	50.164	0.164	173698.90	0.33
233906_10003_Cal4	250.000	249.506	0.494	861932.47	0.20
233907_10003_Cal5	500.000	499.289	0.711	1724315.68	0.14

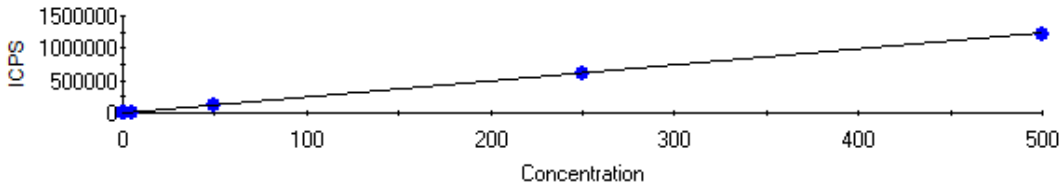
95Mo FQ Block 1



Intercept CPS=99.930645 Intercept Conc=0.068331
Sensitivity=1462.457554 Correlation Coeff=0.999995

Label	Defined	Measured	Error	Mean CPS	% Error
233902_10003_Cal0	0.000	0.030	0.030	143.48	0.00
233903_10003_Cal1	1.000	0.950	0.050	1489.50	4.98
233904_10003_Cal2	5.000	4.963	0.037	7357.52	0.75
233905_10003_Cal3	50.000	50.261	0.261	73603.99	0.52
233906_10003_Cal4	250.000	251.190	1.190	367454.61	0.48
233907_10003_Cal5	500.000	505.842	5.842	739872.66	1.17

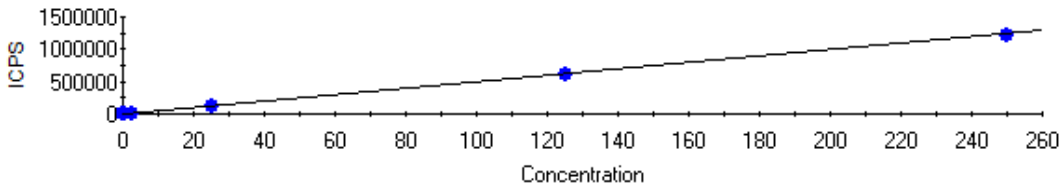
105Pd FQ Block 1



Intercept CPS=803.088629 Intercept Conc=0.326704
Sensitivity=2458.154901 Correlation Coeff=0.999970

Label	Defined	Measured	Error	Mean CPS	% Error
233902_10003_Cal0	0.000	-0.002	0.002	797.89	0.00
233903_10003_Cal1	1.000	0.967	0.033	3179.70	3.32
233904_10003_Cal2	5.000	5.072	0.072	13270.08	1.43
233905_10003_Cal3	50.000	51.064	1.064	126327.40	2.13
233906_10003_Cal4	250.000	250.000	0.000	615342.59	0.00
233907_10003_Cal5	500.000	492.299	7.701	1210951.28	1.54

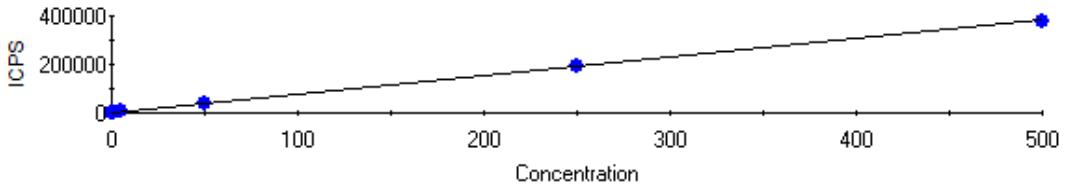
107Ag FQ Block 1



Intercept CPS=564.223864 Intercept Conc=0.114093
Sensitivity=4945.307933 Correlation Coeff=0.999925

Label	Defined	Measured	Error	Mean CPS	% Error
233902_10003_Cal0	0.000	-0.000	0.000	563.63	0.00
233903_10003_Cal1	0.500	0.492	0.008	2998.64	1.55
233904_10003_Cal2	2.500	2.534	0.034	13097.53	1.38
233905_10003_Cal3	25.000	25.786	0.786	128083.92	3.14
233906_10003_Cal4	125.000	125.110	0.110	619271.82	0.09
233907_10003_Cal5	250.000	244.164	5.836	1208029.28	2.33

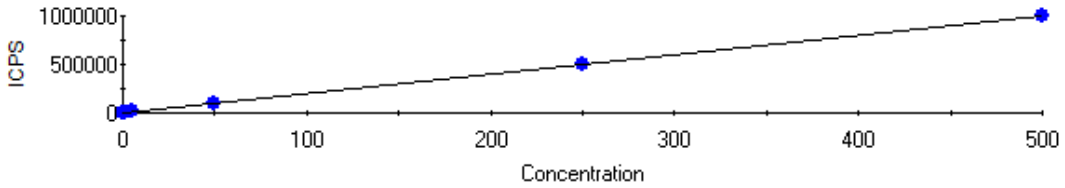
111Cd FQ Block 1



Intercept CPS=62.282933 Intercept Conc=0.081248
Sensitivity=766.578422 Correlation Coeff=0.999950

Label	Defined	Measured	Error	Mean CPS	% Error
233902_10003_Cal0	0.000	-0.000	0.000	62.01	0.00
233903_10003_Cal1	1.000	1.037	0.037	857.12	3.69
233904_10003_Cal2	5.000	5.185	0.185	4037.18	3.71
233905_10003_Cal3	50.000	51.632	1.632	39642.05	3.26
233906_10003_Cal4	250.000	249.805	0.195	191557.12	0.08
233907_10003_Cal5	500.000	489.935	10.065	375636.24	2.01

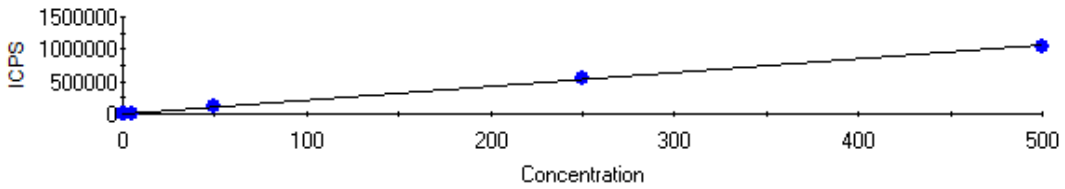
118Sn FQ Block 1



Intercept CPS=238.375664 Intercept Conc=0.119559
Sensitivity=1993.798727 Correlation Coeff=0.999996

Label	Defined	Measured	Error	Mean CPS	% Error
233902_10003_Cal0	0.000	-0.002	0.002	234.11	0.00
233903_10003_Cal1	1.000	0.991	0.009	2213.38	0.94
233904_10003_Cal2	5.000	5.011	0.011	10229.62	0.22
233905_10003_Cal3	50.000	51.130	1.130	102180.76	2.26
233906_10003_Cal4	250.000	250.679	0.679	500041.20	0.27
233907_10003_Cal5	500.000	499.109	0.891	995361.18	0.18

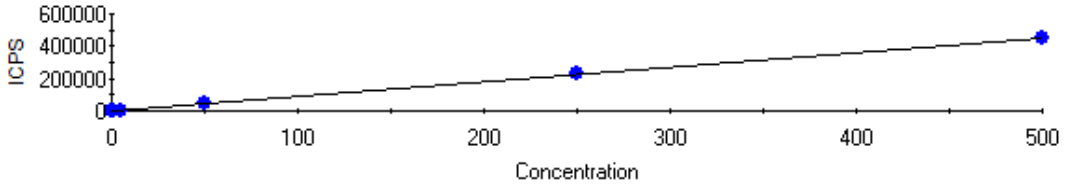
121Sb FQ Block 1



Intercept CPS=180.964049 Intercept Conc=0.084577
Sensitivity=2139.648157 Correlation Coeff=0.999964

Label	Defined	Measured	Error	Mean CPS	% Error
233902_10003_Cal0	0.000	0.003	0.003	186.75	0.00
233903_10003_Cal1	1.000	0.968	0.032	2252.71	3.17
233904_10003_Cal2	5.000	4.975	0.025	10825.58	0.50
233905_10003_Cal3	50.000	51.366	1.366	110087.14	2.73
233906_10003_Cal4	250.000	249.534	0.466	534096.02	0.19
233907_10003_Cal5	500.000	490.997	9.003	1050741.48	1.80

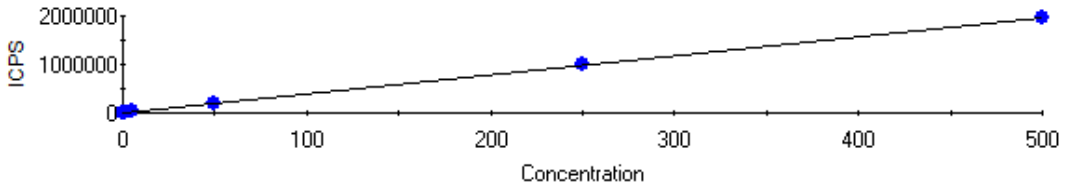
137Ba FQ Block 1



Intercept CPS=146.909157 Intercept Conc=0.161553
Sensitivity=909.355979 Correlation Coeff=0.999997

Label	Defined	Measured	Error	Mean CPS	% Error
233902_10003_Cal0	0.000	-0.080	0.080	73.97	0.00
233903_10003_Cal1	1.000	0.914	0.086	978.01	8.61
233904_10003_Cal2	5.000	5.007	0.007	4700.31	0.15
233905_10003_Cal3	50.000	50.004	0.004	45618.70	0.01
233906_10003_Cal4	250.000	249.075	0.925	226644.44	0.37
233907_10003_Cal5	500.000	495.556	4.444	450784.04	0.89

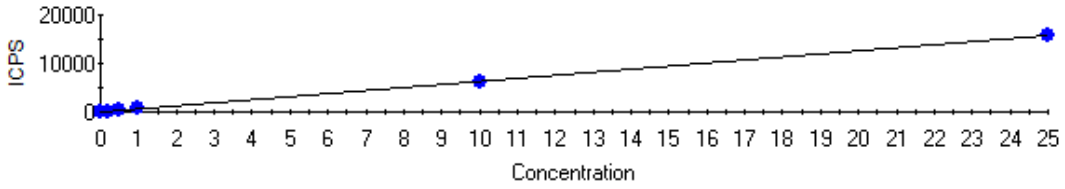
195Pt FQ Block 1



Intercept CPS=419.822873 Intercept Conc=0.106337
Sensitivity=3948.030062 Correlation Coeff=0.999999

Label	Defined	Measured	Error	Mean CPS	% Error
233902_10003_Cal0	0.000	0.000	0.000	421.45	0.00
233903_10003_Cal1	1.000	0.976	0.024	4273.94	2.38
233904_10003_Cal2	5.000	5.008	0.008	20191.54	0.16
233905_10003_Cal3	50.000	50.705	0.705	200603.49	1.41
233906_10003_Cal4	250.000	249.427	0.573	985166.11	0.23
233907_10003_Cal5	500.000	499.222	0.778	1971365.14	0.16

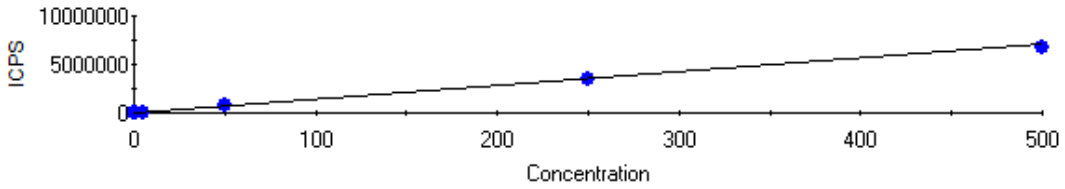
201Hg FQ Block 1



Intercept CPS=16.490128 Intercept Conc=0.026281
Sensitivity=627.453298 Correlation Coeff=0.999995

Label	Defined	Measured	Error	Mean CPS	% Error
233902_10003_Cal0	0.000	-0.003	0.003	14.80	0.00
233903_10003_Cal1	0.200	0.242	0.042	168.31	20.98
233904_10003_Cal2	0.500	0.505	0.005	333.57	1.07
233905_10003_Cal3	1.000	1.053	0.053	677.06	5.28
233906_10003_Cal4	10.000	10.004	0.004	6293.76	0.04
233907_10003_Cal5	25.000	24.847	0.153	15606.73	0.61

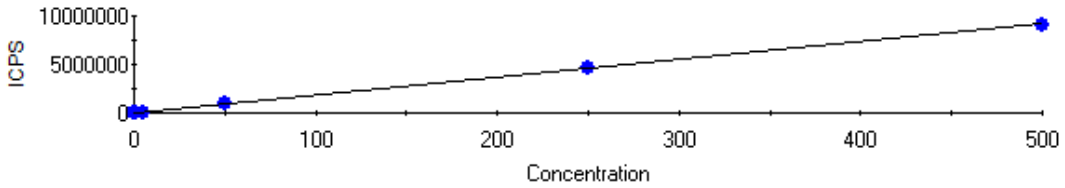
205Tl FQ Block 1



Intercept CPS=1459.741491 Intercept Conc=0.103948
Sensitivity=14042.999665 Correlation Coeff=0.999969

Label	Defined	Measured	Error	Mean CPS	% Error
233902_10003_Cal0	0.000	-0.000	0.000	1459.34	0.00
233903_10003_Cal1	1.000	1.002	0.002	15526.22	0.17
233904_10003_Cal2	5.000	5.171	0.171	74070.41	3.41
233905_10003_Cal3	50.000	52.060	2.060	732532.55	4.12
233906_10003_Cal4	250.000	244.859	5.141	3440016.23	2.06
233907_10003_Cal5	500.000	484.897	15.103	6810868.05	3.02

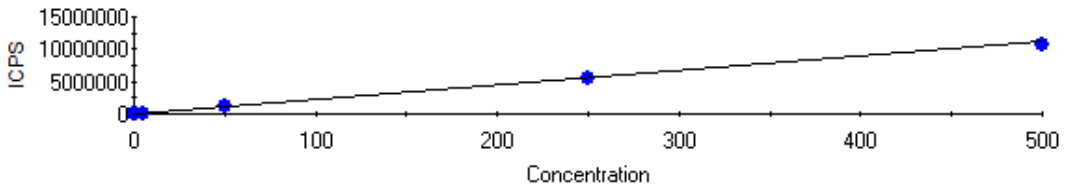
208Pb FQ Block 1



Intercept CPS=1625.597904 Intercept Conc=0.087525
Sensitivity=18572.857620 Correlation Coeff=0.999868

Label	Defined	Measured	Error	Mean CPS	% Error
233902_10003_Cal0	0.000	-0.000	0.000	1617.59	0.00
233903_10003_Cal1	1.000	0.992	0.008	20049.37	0.80
233904_10003_Cal2	5.000	5.079	0.079	95950.04	1.57
233905_10003_Cal3	50.000	51.022	1.022	949250.44	2.04
233906_10003_Cal4	250.000	252.472	2.472	4690748.31	0.99
233907_10003_Cal5	500.000	488.235	11.765	9069548.84	2.35

238U FQ Block 1



Intercept CPS=1591.887271 Intercept Conc=0.071366
Sensitivity=22305.849261 Correlation Coeff=0.999969

Label	Defined	Measured	Error	Mean CPS	% Error
233902_10003_Cal0	0.000	0.002	0.002	1641.37	0.00
233903_10003_Cal1	1.000	0.992	0.008	23722.32	0.79
233904_10003_Cal2	5.000	5.043	0.043	114075.87	0.86
233905_10003_Cal3	50.000	51.011	1.011	1139428.00	2.02
233906_10003_Cal4	250.000	239.241	10.759	5338075.53	4.30
233907_10003_Cal5	500.000	483.480	16.520	10786034.72	3.30

Dilution Corrected Concentrations

233902_10003_Cal0 8/31/2019 1:17:02 AM

User Pre-dilution: 1.000

Run	Time	7Li	9Be	10B	23Na	25Mg	27Al	28Si	31P	34S	35Cl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:17:05	-0.020	0.014	0.037	0.135	-3.544	-0.204	-3.121	-2.794	104.300	T 1963000.000
2	01:17:09	0.013	-0.013	-0.430	-0.046	-0.303	-0.449	-4.874	-13.300	110.100	T 1943000.000
3	01:17:13	0.007	-0.008	0.018	-0.663	-0.011	0.209	-2.870	-6.300	127.900	T 1917000.000
x		0.000	-0.003	-0.125	-0.192	-1.286	-0.148	-3.622	-7.466	114.100	T 1941000.000
σ		0.017	0.014	0.264	0.419	1.961	0.332	1.092	5.352	12.310	T 23060.000
%RSD		50410.000	564.700	211.500	218.600	152.500	224.200	30.150	71.680	10.790	T 1.188

Run	Time	39K	43Ca	45Sc-KED	45Sc-CCT	47Ti	51V	52Cr	53Cl O	54Fe	55Mn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:17:05	-16.010	-8.189	98.797%	98.329%	-0.078	-0.003	0.036	4.077	-0.878	0.022
2	01:17:09	-24.130	10.530	100.373%	100.833%	0.085	-0.072	0.075	4.433	0.042	-0.000
3	01:17:13	-21.650	-3.761	100.830%	100.838%	-0.039	0.038	0.026	4.313	0.313	-0.022
x		-20.600	-0.474	100.000%	100.000%	-0.011	-0.013	0.046	4.274	-0.174	-0.000
σ		4.160	9.783	1.067%	1.448%	0.085	0.056	0.026	0.182	0.624	0.022
%RSD		20.200	2064.000	1.067	1.448	813.200	442.400	57.450	4.246	357.800	1136000.000

Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:17:05	0.000	-0.004	-0.003	-0.001	100.234%	-0.016	0.016	0.003	98.832%	0.004
2	01:17:09	0.004	-0.003	0.014	-0.094	100.727%	-0.010	0.028	-0.009	100.800%	-0.001
3	01:17:13	-0.003	0.008	0.011	-0.061	99.039%	0.040	-0.069	0.015	100.368%	-0.003
x		0.000	0.000	0.007	-0.052	100.000%	0.005	-0.008	0.003	100.000%	0.000
σ		0.004	0.007	0.009	0.047	0.868%	0.031	0.053	0.012	1.034%	0.003
%RSD		1143.000	1691.000	124.600	90.080	0.868	645.800	646.700	390.600	1.034	1371.000

Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:17:05	0.021	0.001	-0.003	-0.002	98.955%	0.005	0.013	-0.100	99.209%	-0.000
2	01:17:09	0.045	0.008	0.003	0.002	100.172%	-0.016	0.004	-0.076	100.348%	0.004
3	01:17:13	0.024	-0.016	0.000	-0.001	100.873%	0.004	-0.008	-0.064	100.443%	-0.002
x		0.030	-0.002	-0.000	-0.000	100.000%	-0.002	0.003	-0.080	100.000%	0.000
σ		0.013	0.013	0.003	0.002	0.971%	0.012	0.011	0.018	0.687%	0.003
%RSD		43.980	590.800	2544.000	685.100	0.971	565.600	395.600	22.510	0.687	699.300

Run	Time	201Hg	205Tl	208Pb	209Bi	238U
		ppb	ppb	ppb	ppb	ppb
1	01:17:05	-0.001	-0.001	-0.000	99.237%	0.000
2	01:17:09	0.002	0.000	0.002	101.117%	0.004
3	01:17:13	-0.009	0.000	-0.003	99.647%	0.003
x		-0.003	-0.000	-0.000	100.000%	0.002
σ		0.005	0.001	0.003	0.989%	0.002
%RSD		197.000	1775.000	658.600	0.989	84.130

233903_10003_Cal1 8/31/2019 1:24:10 AM

User Pre-dilution: 1.000

Run	Time	7Li	9Be	10B	23Na	25Mg	27Al	28Si	31P	34S	35Cl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:24:13	0.984	1.054	0.950	254.300	265.600	253.600	43.530	52.590	133.400	T 2027000.000
2	01:24:16	0.971	0.967	1.633	261.400	251.900	257.200	53.460	45.220	136.100	T 2049000.000
3	01:24:20	1.033	1.015	1.310	257.600	248.600	259.400	45.330	44.130	110.300	T 2038000.000
x		0.996	1.012	1.298	257.800	255.400	256.700	47.440	47.310	126.600	T 2038000.000
σ		0.033	0.043	0.342	3.551	9.008	2.931	5.290	4.604	14.160	T 10600.000
%RSD		3.309	4.270	26.320	1.378	3.527	1.142	11.150	9.730	11.190	T 0.520

Run	Time	39K	43Ca	45Sc-KED	45Sc-CCT	47Ti	51V	52Cr	53Cl O	54Fe	55Mn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:24:13	243.400	216.200	101.807%	102.155%	1.274	0.938	0.993	4.583	251.300	0.943
2	01:24:16	245.100	282.400	101.138%	101.190%	0.794	0.919	0.974	4.792	252.000	0.958
3	01:24:20	242.500	259.400	102.388%	102.585%	1.064	1.031	0.994	4.077	248.200	1.057
x		243.700	252.700	101.778%	101.977%	1.044	0.963	0.987	4.484	250.500	0.986
σ		1.320	33.630	0.626%	0.714%	0.241	0.060	0.011	0.368	2.023	0.062
%RSD		0.541	13.310	0.615	0.700	23.090	6.249	1.161	8.197	0.807	6.317

Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:24:13	0.962	0.927	0.934	0.586	100.816%	1.003	1.052	0.904	102.589%	0.908
2	01:24:16	0.938	0.932	0.948	0.575	100.633%	1.010	0.861	0.919	102.036%	0.983
3	01:24:20	0.990	1.030	0.971	0.577	101.828%	0.981	0.844	1.014	102.629%	0.967
x		0.964	0.963	0.951	0.580	101.092%	0.998	0.919	0.946	102.418%	0.953
σ		0.026	0.058	0.019	0.006	0.644%	0.015	0.116	0.060	0.332%	0.040
%RSD		2.673	6.019	1.978	1.047	0.637	1.536	12.590	6.302	0.324	4.180

Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:24:13	0.966	0.916	0.486	1.004	104.598%	0.950	0.948	0.868	101.959%	0.961
2	01:24:16	0.915	1.004	0.483	1.044	104.064%	0.967	0.962	0.997	102.629%	0.971
3	01:24:20	0.969	0.980	0.508	1.063	104.604%	1.055	0.995	0.877	102.900%	0.997
x		0.950	0.967	0.492	1.037	104.422%	0.991	0.968	0.914	102.496%	0.976
σ		0.030	0.046	0.014	0.030	0.310%	0.056	0.024	0.072	0.484%	0.019
%RSD		3.171	4.706	2.754	2.861	0.297	5.696	2.506	7.889	0.472	1.935

Run	Time	201Hg	205Tl	208Pb	209Bi	238U
		ppb	ppb	ppb	ppb	ppb
1	01:24:13	0.267	1.017	0.966	101.363%	0.989
2	01:24:16	0.214	1.009	1.003	101.561%	0.994
3	01:24:20	0.245	0.979	1.006	103.187%	0.993
x		0.242	1.002	0.992	102.037%	0.992
σ		0.027	0.020	0.022	1.001%	0.003
%RSD		11.010	2.002	2.250	0.981	0.283

233904_10003_Cal2 8/31/2019 1:31:16 AM

User Pre-dilution: 1.000

Run	Time	7Li	9Be	10B	23Na	25Mg	27Al	28Si	31P	34S	35Cl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:31:20	4.874	5.335	5.130	515.800	536.600	516.400	258.600	252.700	123.300	T 2019000.000
2	01:31:24	5.215	4.913	5.124	511.600	504.500	524.400	257.700	262.700	127.600	T 2039000.000
3	01:31:27	5.247	4.957	4.749	523.800	533.100	530.200	252.900	258.800	124.100	T 2045000.000
x		5.112	5.068	5.001	517.100	524.700	523.700	256.400	258.100	125.000	T 2034000.000
σ		0.207	0.232	0.218	6.186	17.590	6.900	3.093	5.008	2.294	T 13480.000
%RSD		4.046	4.586	4.363	1.196	3.352	1.318	1.206	1.940	1.835	T 0.663

Run	Time	39K	43Ca	45Sc-KED	45Sc-CCT	47Ti	51V	52Cr	53Cl O	54Fe	55Mn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:31:20	503.200	496.300	99.590%	101.590%	4.934	5.000	4.999	5.107	510.900	5.130
2	01:31:24	501.900	474.600	101.064%	100.646%	4.609	5.004	5.070	4.869	504.700	4.929
3	01:31:27	502.200	644.100	101.446%	101.330%	5.531	5.074	5.046	4.645	516.600	5.114
x		502.400	538.400	100.700%	101.189%	5.025	5.026	5.038	4.874	510.700	5.058
σ		0.672	92.250	0.980%	0.488%	0.468	0.042	0.036	0.231	5.941	0.112
%RSD		0.134	17.140	0.974	0.482	9.304	0.833	0.712	4.739	1.163	2.206

Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:31:20	5.037	4.826	5.552	4.991	99.749%	5.074	5.596	4.889	100.639%	4.961
2	01:31:24	4.992	5.335	5.503	5.061	101.585%	4.869	4.985	4.872	101.742%	5.091
3	01:31:27	5.025	5.022	5.717	5.068	100.536%	5.184	5.360	5.181	102.910%	5.051
x		5.018	5.061	5.591	5.040	100.624%	5.042	5.313	4.981	101.764%	5.034
σ		0.023	0.257	0.112	0.042	0.921%	0.160	0.308	0.174	1.136%	0.067
%RSD		0.460	5.077	2.004	0.839	0.915	3.175	5.799	3.493	1.116	1.325

Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:31:20	4.982	5.081	2.539	5.062	103.169%	5.004	5.056	5.012	100.543%	5.026
2	01:31:24	4.950	5.123	2.559	5.235	104.163%	4.955	4.881	5.002	101.663%	5.086
3	01:31:27	4.956	5.011	2.505	5.259	104.948%	5.074	4.987	5.008	102.801%	4.912
x		4.963	5.072	2.534	5.185	104.093%	5.011	4.975	5.007	101.669%	5.008
σ		0.017	0.056	0.027	0.108	0.891%	0.060	0.088	0.005	1.129%	0.088
%RSD		0.349	1.111	1.072	2.074	0.856	1.197	1.775	0.105	1.110	1.763

Run	Time	201Hg	205Tl	208Pb	209Bi	238U
		ppb	ppb	ppb	ppb	ppb
1	01:31:20	0.521	5.123	5.040	101.859%	5.049
2	01:31:24	0.497	5.193	5.114	102.272%	5.049
3	01:31:27	0.498	5.195	5.082	103.433%	5.030
x		0.505	5.171	5.079	102.521%	5.043
σ		0.013	0.041	0.037	0.816%	0.011
%RSD		2.644	0.793	0.732	0.796	0.216

233905_10003_Cal3 8/31/2019 1:38:24 AM

User Pre-dilution: 1.000

Run	Time	7Li	9Be	10B	23Na	25Mg	27Al	28Si	31P	34S	35Cl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:38:28	50.000	51.840	51.540	2625.000	2586.000	2552.000	2582.000	2626.000	103.900	T 2127000.000
2	01:38:32	52.010	52.840	54.250	2559.000	2614.000	2522.000	2572.000	2651.000	114.400	T 2078000.000
3	01:38:36	51.280	53.330	54.430	2539.000	2572.000	2519.000	2577.000	2572.000	96.650	T 2079000.000
x		51.090	52.670	53.410	2574.000	2590.000	2531.000	2577.000	2617.000	105.000	T 2094000.000
σ		1.017	0.760	1.615	44.670	21.450	18.050	5.251	40.570	8.921	T 28120.000
%RSD		1.991	1.442	3.024	1.735	0.828	0.713	0.204	1.551	8.497	T 1.343

Run	Time	39K	43Ca	45Sc-KED	45Sc-CCT	47Ti	51V	52Cr	53Cl O	54Fe	55Mn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:38:28	2490.000	2340.000	99.166%	99.410%	51.180	50.310	50.690	10.550	2544.000	49.980
2	01:38:32	2480.000	2549.000	100.350%	99.962%	50.050	50.220	50.390	11.350	2528.000	50.040
3	01:38:36	2484.000	2611.000	101.535%	100.111%	53.370	49.050	50.010	9.993	2491.000	49.980
x		2485.000	2500.000	100.350%	99.828%	51.540	49.860	50.360	10.630	2521.000	50.000
σ		5.268	141.900	1.185%	0.369%	1.688	0.705	0.341	0.684	27.160	0.035
%RSD		0.212	5.675	1.180	0.370	3.275	1.413	0.677	6.434	1.078	0.070

Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:38:28	50.280	51.240	50.280	50.000	99.229%	50.100	50.540	49.870	99.127%	50.540
2	01:38:32	49.710	50.110	50.350	49.940	100.036%	51.100	50.990	49.460	100.194%	49.840
3	01:38:36	49.350	50.540	49.960	50.470	100.922%	51.110	50.400	49.800	100.463%	50.100
x		49.780	50.630	50.200	50.140	100.062%	50.770	50.640	49.710	99.928%	50.160
σ		0.468	0.574	0.207	0.289	0.847%	0.582	0.312	0.221	0.707%	0.354
%RSD		0.941	1.134	0.411	0.576	0.847	1.145	0.616	0.445	0.707	0.706

Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:38:28	50.430	51.450	26.040	52.430	100.750%	50.830	51.560	49.710	98.726%	50.690
2	01:38:32	49.990	51.010	25.480	51.020	102.138%	51.370	51.180	50.280	100.931%	50.900
3	01:38:36	50.360	50.730	25.840	51.450	103.456%	51.190	51.350	50.020	101.864%	50.520
x		50.260	51.060	25.790	51.630	102.115%	51.130	51.370	50.000	100.507%	50.700
σ		0.235	0.366	0.285	0.725	1.353%	0.275	0.191	0.285	1.611%	0.191
%RSD		0.467	0.718	1.106	1.405	1.325	0.537	0.373	0.571	1.603	0.376

Run	Time	201Hg	205Tl	208Pb	209Bi	238U
		ppb	ppb	ppb	ppb	ppb
1	01:38:28	1.084	52.310	51.140	100.482%	51.620
2	01:38:32	1.113	52.410	51.220	101.407%	50.530
3	01:38:36	0.962	51.460	50.710	102.679%	50.880
x		1.053	52.060	51.020	101.523%	51.010
σ		0.080	0.520	0.277	1.103%	0.559
%RSD		7.639	0.999	0.542	1.087	1.095

233906_10003_Cal4 8/31/2019 1:45:33 AM

User Pre-dilution: 1.000

Run	Time	7Li	9Be	10B	23Na	25Mg	27Al	28Si	31P	34S	35Cl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:45:37	249.700	253.900	254.500	12600.000	12550.000	12480.000	12350.000	12800.000	98.300	T 2313000.000
2	01:45:41	249.800	252.000	253.600	12580.000	12660.000	12510.000	12280.000	12520.000	95.220	T 2278000.000
3	01:45:45	250.600	250.900	257.600	12710.000	12660.000	12380.000	12360.000	12720.000	115.700	T 2303000.000
x		250.000	252.300	255.200	12630.000	12620.000	12460.000	12330.000	12680.000	103.100	T 2298000.000
σ		0.471	1.508	2.102	71.630	66.550	70.540	43.140	141.900	11.040	T 18110.000
%RSD		0.188	0.598	0.824	0.567	0.527	0.566	0.350	1.119	10.710	T 0.788

Run	Time	39K	43Ca	45Sc-KED	45Sc-CCT	47Ti	51V	52Cr	53Cl O	54Fe	55Mn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:45:37	12280.000	12260.000	98.573%	97.974%	251.100	250.300	248.800	31.830	12380.000	247.200
2	01:45:41	12320.000	12380.000	99.815%	98.769%	248.500	250.000	249.100	41.070	12570.000	251.600
3	01:45:45	12500.000	12580.000	99.754%	101.047%	252.700	249.400	250.100	43.520	12600.000	249.800
x		12370.000	12410.000	99.381%	99.264%	250.800	249.900	249.300	38.810	12510.000	249.500
σ		115.800	161.800	0.700%	1.595%	2.098	0.476	0.693	6.163	119.700	2.176
%RSD		0.937	1.304	0.705	1.607	0.837	0.191	0.278	15.880	0.956	0.872

Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:45:37	246.600	247.000	243.700	247.900	98.466%	248.000	243.300	248.100	99.875%	249.000
2	01:45:41	250.500	249.900	249.000	252.200	99.389%	250.600	246.900	250.100	100.737%	251.700
3	01:45:45	250.500	251.300	249.800	249.700	99.639%	249.300	248.700	249.100	101.989%	247.800
x		249.200	249.400	247.500	249.900	99.165%	249.300	246.300	249.100	100.867%	249.500
σ		2.274	2.176	3.297	2.161	0.617%	1.277	2.711	1.037	1.063%	1.994
%RSD		0.913	0.872	1.332	0.865	0.623	0.512	1.101	0.416	1.054	0.799

Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:45:37	250.300	250.000	125.400	250.400	103.744%	250.200	250.700	248.100	102.356%	249.600
2	01:45:41	251.200	250.100	125.600	250.200	106.136%	250.600	249.100	249.300	104.967%	249.700
3	01:45:45	252.100	249.900	124.300	248.800	107.192%	251.300	248.800	249.800	104.623%	249.000
x		251.200	250.000	125.100	249.800	105.690%	250.700	249.500	249.100	103.982%	249.400
σ		0.884	0.077	0.677	0.836	1.767%	0.572	1.000	0.904	1.419%	0.405
%RSD		0.352	0.031	0.541	0.335	1.672	0.228	0.401	0.363	1.364	0.162

Run	Time	201Hg	205Tl	208Pb	209Bi	238U
		ppb	ppb	ppb	ppb	ppb
1	01:45:37	10.120	T 248.800	252.400	103.057%	T 241.200
2	01:45:41	10.110	T 244.800	253.500	105.883%	T 240.200
3	01:45:45	9.785	T 241.000	251.500	106.162%	T 236.300
x		10.000	T 244.900	252.500	105.034%	T 239.200
σ		0.190	T 3.911	1.013	1.718%	T 2.583
%RSD		1.903	T 1.597	0.401	1.636	T 1.080

233907_10003_Cal5 8/31/2019 1:52:41 AM

User Pre-dilution: 1.000

Run	Time	7Li	9Be	10B	23Na	25Mg	27Al	28Si	31P	34S	35Cl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:52:45	481.100	480.100	495.000	T 24980.000	24910.000	24640.000	23600.000	24400.000	115.200	T 2512000.000
2	01:52:49	496.200	488.100	492.400	T 24960.000	24790.000	24600.000	23650.000	24420.000	95.260	T 2546000.000
3	01:52:53	487.600	484.200	497.700	TM 25000.000	24890.000	24820.000	23750.000	24730.000	94.020	T 2528000.000
x		488.300	484.200	495.000	TM 24980.000	24860.000	24690.000	23670.000	24520.000	101.500	T 2529000.000
σ		7.586	3.995	2.623	TM 24.030	62.200	117.000	74.580	182.400	11.880	T 16690.000
%RSD		1.554	0.825	0.530	TM 0.096	0.250	0.474	0.315	0.744	11.710	T 0.660

Run	Time	39K	43Ca	45Sc-KED	45Sc-CCT	47Ti	51V	52Cr	53Cl O	54Fe	55Mn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:52:45	T 24250.000	M 25180.000	96.986%	94.637%	498.800	M 504.700	M 502.600	69.330	T 24580.000	M 502.800
2	01:52:49	T 24560.000	24830.000	97.839%	94.458%	M 500.400	497.300	499.100	77.130	T 24320.000	497.600
3	01:52:53	T 24650.000	M 25220.000	97.158%	96.129%	M 500.500	M 500.900	M 504.500	79.180	T 24730.000	M 506.900
x		T 24490.000	M 25080.000	97.328%	95.075%	M 499.900	M 500.900	M 502.000	75.210	T 24540.000	M 502.500
σ		T 208.500	M 212.200	0.451%	0.917%	M 0.959	M 3.693	M 2.736	5.199	T 207.500	M 4.666
%RSD		T 0.852	M 0.846	0.463	0.965	M 0.192	M 0.737	M 0.545	6.912	T 0.846	M 0.929

Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:52:45	497.100	494.400	493.600	498.800	93.496%	M 501.600	487.200	M 504.300	96.519%	M 502.600
2	01:52:49	498.600	498.000	494.700	496.400	95.441%	493.100	482.600	M 502.000	98.808%	498.000
3	01:52:53	M 503.000	M 502.200	498.900	M 500.300	93.277%	M 504.800	493.300	M 505.900	98.977%	497.300
x		M 499.600	M 498.200	495.700	M 498.500	94.071%	M 499.800	487.700	M 504.100	98.102%	M 499.300
σ		M 3.107	M 3.905	2.813	M 1.974	1.192%	M 6.025	5.352	M 1.965	1.373%	M 2.877
%RSD		M 0.622	M 0.784	0.567	M 0.396	1.267	M 1.205	1.097	M 0.390	1.400	M 0.576

Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:52:45	M 513.400	495.200	246.500	495.400	103.663%	499.400	492.900	497.200	101.498%	M 500.500
2	01:52:49	M 504.100	492.100	242.800	485.800	105.884%	498.400	489.900	495.000	103.967%	495.400
3	01:52:53	M 500.100	489.700	243.300	488.600	105.983%	499.500	490.300	494.400	104.378%	M 501.800
x		M 505.800	492.300	244.200	489.900	105.177%	499.100	491.000	495.600	103.281%	M 499.200
σ		M 6.814	2.756	1.994	4.928	1.312%	0.590	1.638	1.467	1.558%	M 3.344
%RSD		M 1.347	0.560	0.817	1.006	1.247	0.118	0.334	0.296	1.508	M 0.670

Run	Time	201Hg	205Tl	208Pb	209Bi	238U
		ppb	ppb	ppb	ppb	ppb
1	01:52:45	24.820	T 488.400	T 489.900	102.121%	T 487.700
2	01:52:49	M 25.180	T 482.600	T 486.100	104.700%	T 480.300
3	01:52:53	24.530	T 483.800	T 488.800	103.256%	T 482.400
x		M 24.850	T 484.900	T 488.200	103.359%	T 483.500
σ		M 0.325	T 3.056	T 1.956	1.292%	T 3.833
%RSD		M 1.310	T 0.630	T 0.401	1.250	T 0.793

233143_10003_ICV 8/31/2019 1:59:51 AM

User Pre-dilution: 1.000

Run	Time	7Li	9Be	10B	23Na	25Mg	27Al	28Si	31P	34S	35Cl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:59:54	110.300	112.800	115.100	5733.000	5710.000	5642.000	5825.000	5900.000	111.100	T 2001000.000
2	01:59:58	108.500	112.400	113.200	5659.000	5689.000	5600.000	5738.000	6010.000	105.600	T 1981000.000
3	02:00:02	107.900	109.300	108.300	5772.000	5750.000	5661.000	5774.000	5915.000	78.560	T 1976000.000
x		108.900	111.500	112.200	5721.000	5716.000	5635.000	5779.000	5942.000	98.420	T 1986000.000
σ		1.253	1.895	3.533	57.660	31.110	31.220	43.830	59.560	17.420	T 13540.000
%RSD		1.150	1.699	3.149	1.008	0.544	0.554	0.759	1.002	17.700	T 0.682

Run	Time	39K	43Ca	45Sc-KED	45Sc-CCT	47Ti	51V	52Cr	53Cl O	54Fe	55Mn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:59:54	5547.000	5976.000	97.747%	96.312%	113.800	112.400	112.200	16.450	5624.000	109.000
2	01:59:58	5623.000	5918.000	100.564%	97.910%	107.800	111.200	111.300	19.090	5671.000	110.000
3	02:00:02	5628.000	5948.000	99.779%	98.645%	113.000	111.300	111.900	19.500	5629.000	109.800
x		5599.000	5947.000	99.363%	97.622%	111.500	111.600	111.800	18.340	5641.000	109.600
σ		45.500	29.260	1.454%	1.193%	3.245	0.697	0.439	1.655	25.550	0.497
%RSD		0.813	0.492	1.463	1.222	2.909	0.624	0.392	9.024	0.453	0.453

Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:59:54	109.300	109.900	109.100	111.300	100.588%	107.100	110.800	108.900	100.712%	111.500
2	01:59:58	110.300	111.500	110.400	111.400	100.197%	109.800	112.200	108.400	101.920%	111.800
3	02:00:02	108.900	109.400	110.500	111.900	102.632%	108.600	111.600	109.500	102.790%	111.000
x		109.500	110.300	110.000	111.500	101.139%	108.500	111.500	108.900	101.807%	111.400
σ		0.725	1.115	0.793	0.307	1.308%	1.377	0.718	0.591	1.043%	0.390
%RSD		0.662	1.011	0.721	0.275	1.293	1.270	0.644	0.542	1.025	0.350

Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:59:54	103.000	103.800	55.980	113.000	104.168%	114.900	113.900	108.800	102.887%	109.100
2	01:59:58	104.100	105.000	56.160	112.400	105.801%	114.800	113.500	110.300	104.005%	107.400
3	02:00:02	103.400	103.700	56.090	112.400	106.469%	114.400	113.300	110.500	104.826%	107.200
x		103.500	104.200	56.080	112.600	105.479%	114.700	113.500	109.900	103.906%	107.900
σ		0.565	0.751	0.093	0.317	1.184%	0.222	0.283	0.947	0.973%	1.054
%RSD		0.546	0.721	0.166	0.281	1.122	0.193	0.249	0.862	0.937	0.976

Run	Time	201Hg	205Tl	208Pb	209Bi	238U
		ppb	ppb	ppb	ppb	ppb
1	01:59:54	4.064	112.300	110.800	102.043%	T 110.600
2	01:59:58	3.990	110.800	110.200	105.539%	T 108.200
3	02:00:02	3.917	110.900	110.800	105.148%	T 108.200
x		3.991	111.300	110.600	104.243%	T 109.000
σ		0.074	0.852	0.363	1.915%	T 1.370
%RSD		1.846	0.765	0.328	1.837	T 1.257

233902_10003_ICBTVA 8/31/2019 2:06:59 AM

User Pre-dilution: 1.000

Run	Time	7Li	9Be	10B	23Na	25Mg	27Al	28Si	31P	34S	35Cl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	02:07:03	0.264	0.249	1.112	7.665	4.439	7.558	5.933	3.868	91.870	T 1949000.000
2	02:07:07	0.250	0.189	1.940	8.449	6.641	8.909	6.702	-5.698	94.160	T 1922000.000
3	02:07:10	0.293	0.287	1.165	5.036	4.489	7.209	4.757	-7.822	93.850	T 1880000.000
x		0.269	0.242	1.406	7.050	5.190	7.892	5.797	-3.217	93.290	T 1917000.000
σ		0.022	0.049	0.463	1.788	1.257	0.898	0.980	6.227	1.241	T 35080.000
%RSD		8.276	20.290	32.960	25.360	24.230	11.370	16.900	193.600	1.330	T 1.830

Run	Time	39K	43Ca	45Sc-KED	45Sc-CCT	47Ti	51V	52Cr	53Cl O	54Fe	55Mn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	02:07:03	-4.458	8.654	100.099%	99.631%	0.204	0.101	0.175	3.520	7.383	0.170
2	02:07:07	-8.111	31.010	101.600%	99.831%	0.200	0.173	0.202	3.006	8.451	0.176
3	02:07:10	-12.340	8.449	102.592%	102.784%	0.238	-0.035	0.098	3.668	5.496	0.114
x		-8.303	16.040	101.430%	100.749%	0.214	0.080	0.158	3.398	7.110	0.153
σ		3.944	12.970	1.256%	1.765%	0.021	0.105	0.054	0.347	1.496	0.035
%RSD		47.500	80.860	1.238	1.752	9.826	132.400	34.200	10.220	21.050	22.520

Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	02:07:03	0.148	0.171	0.181	0.211	102.237%	0.178	0.262	0.159	102.372%	0.169
2	02:07:07	0.186	0.170	0.180	0.092	103.300%	0.161	0.189	0.190	103.747%	0.163
3	02:07:10	0.125	0.104	0.154	0.120	102.842%	0.131	0.160	0.128	104.597%	0.096
x		0.153	0.148	0.172	0.141	102.793%	0.157	0.204	0.159	103.572%	0.143
σ		0.031	0.039	0.015	0.062	0.533%	0.024	0.052	0.031	1.123%	0.040
%RSD		20.060	26.030	8.972	43.870	0.519	15.180	25.750	19.410	1.084	28.370

Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	02:07:03	0.244	0.142	0.087	0.152	103.244%	0.181	0.189	0.096	101.368%	0.146
2	02:07:07	0.217	0.140	0.079	0.180	105.506%	0.181	0.190	0.098	102.000%	0.183
3	02:07:10	0.138	0.056	0.056	0.116	104.223%	0.111	0.121	0.039	103.140%	0.112
x		0.200	0.113	0.074	0.149	104.324%	0.158	0.167	0.078	102.169%	0.147
σ		0.055	0.049	0.016	0.032	1.135%	0.041	0.040	0.034	0.898%	0.036
%RSD		27.620	43.500	21.840	21.590	1.088	25.840	23.750	43.340	0.879	24.450

Run	Time	201Hg	205Tl	208Pb	209Bi	238U
		ppb	ppb	ppb	ppb	ppb
1	02:07:03	0.012	0.278	0.163	102.041%	0.152
2	02:07:07	0.028	0.283	0.183	104.272%	0.176
3	02:07:10	0.022	0.203	0.116	103.834%	0.120
x		0.021	0.255	0.154	103.382%	0.149
σ		0.008	0.045	0.034	1.182%	0.028
%RSD		39.860	17.550	22.420	1.143	18.640

233903_10003_CRDL_A1 8/31/2019 2:14:08 AM

User Pre-dilution: 1.000

Run	Time	7Li	9Be	10B	23Na	25Mg	27Al	28Si	31P	34S	35Cl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	02:14:12	0.955	0.893	1.602	256.800	254.600	254.300	49.310	40.820	101.700	T 2060000.000
2	02:14:16	0.964	0.926	1.571	247.400	254.100	251.300	48.900	41.930	102.900	T 1998000.000
3	02:14:20	0.962	1.089	2.103	251.500	254.600	253.700	50.000	41.920	111.700	T 2033000.000
x		0.960	0.969	1.759	251.900	254.400	253.100	49.400	41.560	105.400	T 2030000.000
σ		0.005	0.105	0.299	4.710	0.287	1.551	0.553	0.641	5.457	T 31360.000
%RSD		0.474	10.820	16.990	1.870	0.113	0.613	1.120	1.541	5.178	T 1.545

Run	Time	39K	43Ca	45Sc-KED	45Sc-CCT	47Ti	51V	52Cr	53Cl O	54Fe	55Mn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	02:14:12	257.600	185.400	103.204%	102.862%	1.053	0.933	1.017	3.863	252.900	0.986
2	02:14:16	248.200	279.100	105.013%	105.334%	1.229	1.044	1.004	3.541	253.700	1.019
3	02:14:20	253.400	287.700	105.026%	102.438%	0.837	0.963	0.988	3.529	252.600	1.018
x		253.100	250.700	104.414%	103.545%	1.040	0.980	1.003	3.644	253.100	1.008
σ		4.733	56.730	1.048%	1.564%	0.197	0.058	0.014	0.189	0.594	0.019
%RSD		1.870	22.620	1.004	1.510	18.910	5.873	1.431	5.194	0.235	1.875

Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	02:14:12	1.024	0.975	0.985	0.549	103.907%	0.927	0.931	0.928	103.900%	0.957
2	02:14:16	0.970	0.936	1.009	0.645	104.349%	0.990	1.130	1.012	105.442%	0.991
3	02:14:20	0.997	1.061	1.011	0.495	104.909%	1.049	1.172	1.023	106.160%	0.945
x		0.997	0.990	1.002	0.563	104.388%	0.989	1.078	0.988	105.167%	0.965
σ		0.027	0.064	0.015	0.076	0.502%	0.061	0.128	0.052	1.155%	0.024
%RSD		2.701	6.445	1.468	13.500	0.481	6.180	11.910	5.250	1.098	2.468

Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	02:14:12	1.065	0.921	0.502	0.989	106.107%	0.958	1.029	0.940	102.488%	0.945
2	02:14:16	0.933	0.948	0.516	0.996	106.043%	1.041	1.024	0.924	104.114%	0.982
3	02:14:20	1.010	0.970	0.514	0.996	108.144%	1.048	0.973	1.008	104.216%	0.999
x		1.003	0.946	0.510	0.993	106.765%	1.016	1.009	0.957	103.606%	0.975
σ		0.066	0.025	0.008	0.004	1.195%	0.050	0.031	0.044	0.970%	0.028
%RSD		6.623	2.617	1.508	0.365	1.120	4.959	3.043	4.636	0.936	2.837

Run	Time	201Hg	205Tl	208Pb	209Bi	238U
		ppb	ppb	ppb	ppb	ppb
1	02:14:12	0.194	1.027	0.978	103.236%	0.965
2	02:14:16	0.192	1.051	0.995	103.886%	1.011
3	02:14:20	0.164	1.091	1.016	104.130%	1.021
x		0.183	1.056	0.996	103.751%	0.999
σ		0.016	0.032	0.019	0.462%	0.030
%RSD		9.002	3.037	1.897	0.445	2.987

233904_10003_CRDL_B1 8/31/2019 2:21:17 AM

User Pre-dilution: 1.000

Run	Time	7Li	9Be	10B	23Na	25Mg	27Al	28Si	31P	34S	35Cl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	02:21:21	4.703	4.969	5.434	499.800	515.500	496.000	261.700	243.100	105.900	T 2071000.000
2	02:21:25	5.017	4.939	5.917	508.000	515.400	516.200	260.900	250.600	93.880	T 2094000.000
3	02:21:29	4.773	5.398	6.084	505.700	512.900	514.600	253.200	276.500	97.960	T 2064000.000
x		4.831	5.102	5.812	504.500	514.600	508.900	258.600	256.700	99.250	T 2076000.000
σ		0.165	0.257	0.338	4.216	1.488	11.220	4.683	17.500	6.119	T 15760.000
%RSD		3.415	5.035	5.807	0.836	0.289	2.204	1.811	6.817	6.165	T 0.759

Run	Time	39K	43Ca	45Sc-KED	45Sc-CCT	47Ti	51V	52Cr	53Cl O	54Fe	55Mn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	02:21:21	495.900	523.500	106.062%	103.600%	4.699	5.007	4.974	4.042	505.400	4.869
2	02:21:25	507.400	496.500	105.194%	106.090%	5.824	4.764	5.081	4.870	505.700	4.884
3	02:21:29	495.800	509.000	107.103%	104.728%	5.297	5.001	4.922	4.086	499.000	4.844
x		499.700	509.700	106.120%	104.806%	5.273	4.924	4.992	4.333	503.300	4.866
σ		6.701	13.520	0.956%	1.247%	0.563	0.139	0.081	0.466	3.786	0.020
%RSD		1.341	2.653	0.901	1.190	10.670	2.815	1.621	10.760	0.752	0.411

Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	02:21:21	4.906	4.914	5.588	4.884	105.188%	5.232	5.161	4.981	105.619%	4.977
2	02:21:25	4.831	4.860	5.636	4.895	106.923%	4.901	4.934	4.967	106.344%	5.005
3	02:21:29	4.896	5.038	5.666	5.008	107.244%	5.152	5.732	4.975	106.718%	5.067
x		4.878	4.937	5.630	4.929	106.452%	5.095	5.276	4.974	106.227%	5.017
σ		0.041	0.091	0.039	0.068	1.106%	0.172	0.411	0.007	0.558%	0.046
%RSD		0.833	1.849	0.697	1.384	1.039	3.382	7.788	0.144	0.526	0.924

Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	02:21:21	4.894	4.998	2.584	4.998	106.479%	5.001	4.959	4.960	102.509%	5.029
2	02:21:25	5.092	5.081	2.525	5.128	107.750%	5.007	5.063	5.031	104.645%	5.023
3	02:21:29	4.919	4.963	2.571	5.009	109.030%	4.920	5.039	4.726	104.965%	5.055
x		4.968	5.014	2.560	5.045	107.753%	4.976	5.020	4.906	104.039%	5.036
σ		0.107	0.061	0.031	0.072	1.275%	0.048	0.055	0.160	1.335%	0.017
%RSD		2.162	1.209	1.219	1.426	1.184	0.974	1.085	3.258	1.283	0.340

Run	Time	201Hg	205Tl	208Pb	209Bi	238U
		ppb	ppb	ppb	ppb	ppb
1	02:21:21	0.471	5.146	5.058	101.694%	4.964
2	02:21:25	0.494	5.194	5.014	101.766%	4.981
3	02:21:29	0.505	5.215	5.067	103.851%	4.963
x		0.490	5.185	5.047	102.437%	4.969
σ		0.017	0.035	0.028	1.225%	0.010
%RSD		3.502	0.684	0.557	1.196	0.198

233407_10003_ICSA1 8/31/2019 2:28:25 AM

User Pre-dilution: 1.000

Run	Time	7Li	9Be	10B	23Na	25Mg	27Al	28Si	31P	34S	35Cl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	02:28:29	0.184	-0.000	0.738	TM 54860.000	M 51780.000	M 50790.000	13.140	M 55800.000	3345.000	T 2157000.000
2	02:28:33	0.185	-0.045	0.442	TM 54200.000	M 51730.000	M 50810.000	11.720	M 55460.000	3431.000	T 2118000.000
3	02:28:37	0.211	-0.011	0.503	TM 55120.000	M 53050.000	TM 51420.000	9.744	M 55600.000	3295.000	T 2152000.000
x		0.193	-0.019	0.561	TM 54730.000	M 52190.000	TM 51010.000	11.530	M 55620.000	3357.000	T 2142000.000
σ		0.016	0.024	0.157	TM 473.200	M 750.100	TM 359.100	1.707	M 169.500	68.720	T 21200.000
%RSD		8.059	124.300	27.920	TM 0.865	M 1.437	TM 0.704	14.790	M 0.305	2.047	T 0.990

Run	Time	39K	43Ca	45Sc-KED	45Sc-CCT	47Ti	51V	52Cr	53Cl O	54Fe	55Mn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	02:28:29	TM 53760.000	M 54140.000	95.700%	97.341%	M 1060.000	-0.063	0.089	3.360	TM 54000.000	-0.082
2	02:28:33	TM 53170.000	M 53550.000	96.737%	96.392%	M 1060.000	-0.043	0.115	3.528	TM 53090.000	0.045
3	02:28:37	TM 53650.000	M 54790.000	95.324%	98.022%	M 1060.000	-0.060	0.103	3.405	TM 53440.000	0.056
x		TM 53530.000	M 54160.000	95.920%	97.252%	M 1060.000	-0.055	0.102	3.431	TM 53510.000	0.006
σ		TM 316.600	M 621.400	0.732%	0.819%	M 0.205	0.011	0.013	0.087	TM 459.800	0.077
%RSD		TM 0.592	M 1.147	0.763	0.842	M 0.019	19.430	12.310	2.533	TM 0.859	1180.000

Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	02:28:29	-0.035	0.062	0.267	-0.145	92.855%	0.038	-0.031	0.541	98.017%	0.028
2	02:28:33	-0.033	0.043	0.232	0.001	93.982%	0.061	-0.058	0.521	98.361%	0.001
3	02:28:37	-0.021	0.044	0.262	0.105	94.794%	0.046	0.122	0.529	98.738%	0.020
x		-0.030	0.050	0.254	-0.013	93.877%	0.048	0.011	0.530	98.372%	0.016
σ		0.007	0.010	0.019	0.126	0.974%	0.011	0.097	0.010	0.361%	0.014
%RSD		25.140	20.930	7.468	961.100	1.037	23.760	884.100	1.967	0.367	86.970

Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	02:28:29	M 1068.000	-0.054	-0.032	0.015	102.147%	0.115	0.037	0.004	98.318%	-0.018
2	02:28:33	M 1085.000	-0.046	-0.032	-0.018	103.140%	0.103	0.047	-0.013	100.918%	-0.035
3	02:28:37	M 1076.000	-0.049	-0.018	0.031	103.733%	0.108	0.042	-0.018	100.482%	-0.044
x		M 1077.000	-0.050	-0.027	0.009	103.007%	0.109	0.042	-0.009	99.906%	-0.032
σ		M 8.544	0.004	0.008	0.025	0.802%	0.006	0.005	0.012	1.392%	0.013
%RSD		M 0.793	8.130	29.690	268.800	0.778	5.198	11.530	131.000	1.394	40.360

Run	Time	201Hg	205Tl	208Pb	209Bi	238U
		ppb	ppb	ppb	ppb	ppb
1	02:28:29	0.043	-0.020	-0.004	97.192%	-0.040
2	02:28:33	0.013	-0.033	-0.008	98.927%	-0.036
3	02:28:37	-0.001	-0.033	-0.003	99.079%	-0.037
x		0.018	-0.029	-0.005	98.399%	-0.038
σ		0.023	0.008	0.003	1.048%	0.002
%RSD		124.500	26.230	48.870	1.065	5.009

233596_10003_ICSAB1 8/31/2019 2:35:33 AM

User Pre-dilution: 1.000

Run	Time	7Li	9Be	10B	23Na	25Mg	27Al	28Si	31P	34S	35Cl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	02:35:37	95.970	96.010	98.110	TM 53440.000	M 51450.000	M 49880.000	4981.000	M 59070.000	3194.000	T 2177000.000
2	02:35:41	94.540	95.940	96.530	TM 51660.000	M 50180.000	M 49240.000	4955.000	M 57990.000	3140.000	T 2112000.000
3	02:35:45	94.380	96.070	96.180	TM 53040.000	M 51340.000	M 49580.000	5007.000	M 59030.000	3311.000	T 2149000.000
x		94.960	96.010	96.940	TM 52720.000	M 50990.000	M 49570.000	4981.000	M 58690.000	3215.000	T 2146000.000
σ		0.875	0.064	1.025	TM 935.100	M 700.200	M 321.700	25.650	M 614.500	87.410	T 32560.000
%RSD		0.922	0.066	1.058	TM 1.774	M 1.373	M 0.649	0.515	M 1.047	2.719	T 1.517

Run	Time	39K	43Ca	45Sc-KED	45Sc-CCT	47Ti	51V	52Cr	53Cl O	54Fe	55Mn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	02:35:37	TM 52250.000	M 53830.000	96.655%	98.560%	M 1153.000	107.200	105.000	14.660	TM 52220.000	103.800
2	02:35:41	TM 50890.000	M 52980.000	99.221%	97.500%	M 1125.000	103.800	102.800	18.910	TM 50990.000	103.200
3	02:35:45	TM 51580.000	M 53520.000	98.614%	97.678%	M 1139.000	104.900	104.400	17.970	TM 51790.000	103.900
x		TM 51570.000	M 53440.000	98.163%	97.912%	M 1139.000	105.300	104.100	17.180	TM 51670.000	103.600
σ		TM 680.600	M 431.000	1.341%	0.568%	M 13.930	1.723	1.110	2.236	TM 622.400	0.344
%RSD		TM 1.320	M 0.806	1.366	0.580	M 1.223	1.637	1.067	13.010	TM 1.205	0.332

Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	02:35:37	104.100	103.900	102.900	106.500	95.177%	106.600	104.100	102.800	100.058%	100.700
2	02:35:41	103.400	103.500	102.400	105.700	95.805%	107.800	105.400	103.000	100.960%	101.400
3	02:35:45	104.000	104.600	103.000	106.300	95.199%	109.000	103.700	103.400	101.591%	101.400
x		103.800	104.000	102.800	106.200	95.394%	107.800	104.400	103.100	100.869%	101.200
σ		0.360	0.581	0.294	0.438	0.356%	1.193	0.899	0.310	0.771%	0.431
%RSD		0.347	0.559	0.286	0.413	0.374	1.107	0.861	0.301	0.764	0.426

Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	02:35:37	M 1174.000	99.030	50.750	102.300	106.546%	101.800	102.200	102.800	102.720%	104.700
2	02:35:41	M 1171.000	100.400	51.220	101.500	107.891%	103.700	103.000	103.400	104.045%	105.300
3	02:35:45	M 1171.000	100.400	51.310	101.700	108.605%	102.800	103.100	101.300	104.857%	104.900
x		M 1172.000	99.940	51.090	101.800	107.681%	102.800	102.700	102.500	103.874%	105.000
σ		M 1.271	0.786	0.306	0.393	1.045%	0.937	0.462	1.052	1.079%	0.321
%RSD		M 0.108	0.787	0.599	0.386	0.971	0.912	0.449	1.026	1.038	0.306

Run	Time	201Hg	205Tl	208Pb	209Bi	238U
		ppb	ppb	ppb	ppb	ppb
1	02:35:37	5.215	105.900	102.800	102.082%	107.800
2	02:35:41	5.266	107.500	104.100	103.130%	107.000
3	02:35:45	5.059	106.600	102.800	104.424%	108.400
x		5.180	106.700	103.200	103.212%	107.700
σ		0.108	0.773	0.737	1.173%	0.746
%RSD		2.087	0.725	0.714	1.137	0.692

233908_10003_CCV1 8/31/2019 2:42:43 AM

User Pre-dilution: 1.000

Run	Time	7Li	9Be	10B	23Na	25Mg	27Al	28Si	31P	34S	35Cl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	02:42:46	95.170	95.520	95.900	5096.000	5086.000	4967.000	5018.000	5278.000	104.400	T 2197000.000
2	02:42:50	91.960	95.450	94.990	5115.000	5143.000	4958.000	5101.000	5213.000	97.020	T 2180000.000
3	02:42:54	96.290	98.980	97.550	5100.000	5121.000	5009.000	5085.000	5128.000	87.920	T 2168000.000
x		94.470	96.650	96.150	5103.000	5117.000	4978.000	5068.000	5206.000	96.430	T 2182000.000
σ		2.250	2.018	1.295	10.070	28.900	27.070	44.300	75.490	8.233	T 14280.000
%RSD		2.382	2.088	1.347	0.197	0.565	0.544	0.874	1.450	8.538	T 0.655

Run	Time	39K	43Ca	45Sc-KED	45Sc-CCT	47Ti	51V	52Cr	53Cl O	54Fe	55Mn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	02:42:46	5032.000	5241.000	105.871%	109.350%	104.500	102.500	102.400	19.110	5057.000	100.600
2	02:42:50	5079.000	5327.000	106.875%	106.926%	102.600	101.900	103.100	21.890	5053.000	101.000
3	02:42:54	4995.000	4974.000	108.813%	106.308%	99.870	101.500	102.200	15.770	5072.000	100.700
x		5035.000	5181.000	107.186%	107.528%	102.300	102.000	102.600	18.920	5061.000	100.800
σ		42.130	184.300	1.495%	1.608%	2.317	0.509	0.473	3.063	10.000	0.188
%RSD		0.837	3.558	1.395	1.495	2.264	0.499	0.461	16.190	0.198	0.187

Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	02:42:46	101.800	104.200	103.200	101.900	107.071%	103.200	102.500	99.800	107.468%	101.600
2	02:42:50	102.800	103.000	102.100	101.300	109.067%	103.000	102.900	99.540	109.052%	101.300
3	02:42:54	102.000	103.800	102.400	104.200	109.330%	102.800	100.700	101.100	110.293%	101.400
x		102.200	103.700	102.600	102.500	108.489%	103.000	102.000	100.200	108.938%	101.400
σ		0.519	0.629	0.559	1.515	1.235%	0.212	1.163	0.858	1.416%	0.176
%RSD		0.508	0.607	0.545	1.478	1.139	0.205	1.140	0.857	1.300	0.174

Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	02:42:46	103.000	104.000	52.020	103.400	110.176%	102.500	103.000	101.700	108.549%	103.400
2	02:42:50	101.800	103.400	51.780	102.800	113.002%	102.600	101.900	101.200	110.615%	102.900
3	02:42:54	102.400	103.500	51.580	102.100	113.908%	103.200	102.900	101.300	110.743%	102.800
x		102.400	103.600	51.790	102.800	112.362%	102.800	102.600	101.400	109.969%	103.000
σ		0.577	0.347	0.217	0.649	1.947%	0.407	0.636	0.292	1.232%	0.316
%RSD		0.564	0.335	0.418	0.631	1.733	0.396	0.620	0.288	1.120	0.307

Run	Time	201Hg	205Tl	208Pb	209Bi	238U
		ppb	ppb	ppb	ppb	ppb
1	02:42:46	5.143	105.700	103.300	108.540%	T 99.080
2	02:42:50	4.976	105.500	103.200	110.350%	T 98.020
3	02:42:54	4.898	104.000	102.200	111.030%	T 97.350
x		5.006	105.100	102.900	109.974%	T 98.150
σ		0.125	0.937	0.618	1.287%	T 0.868
%RSD		2.497	0.891	0.600	1.171	T 0.885

233902_10003_CCBTVA1 8/31/2019 2:49:49 AM

User Pre-dilution: 1.000

Run	Time	7Li	9Be	10B	23Na	25Mg	27Al	28Si	31P	34S	35Cl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	02:49:53	-0.039	-0.037	-0.022	13.450	8.710	10.780	-1.490	6.731	111.900	T 2046000.000
2	02:49:57	-0.014	-0.006	0.297	8.175	5.594	8.892	-3.833	2.779	94.680	T 1991000.000
3	02:50:01	-0.030	-0.051	0.139	10.760	8.860	6.682	-4.375	12.930	97.500	T 2001000.000
x		-0.028	-0.031	0.138	10.800	7.721	8.783	-3.233	7.479	101.400	T 2013000.000
σ		0.013	0.023	0.160	2.638	1.844	2.049	1.533	5.115	9.222	T 29150.000
%RSD		45.580	72.900	115.800	24.440	23.880	23.330	47.430	68.390	9.099	T 1.448

Run	Time	39K	43Ca	45Sc-KED	45Sc-CCT	47Ti	51V	52Cr	53Cl O	54Fe	55Mn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	02:49:53	14.740	21.600	108.681%	109.014%	0.368	0.061	0.048	3.691	10.350	0.052
2	02:49:57	8.445	21.100	110.171%	110.632%	0.175	-0.020	0.031	3.602	7.337	0.046
3	02:50:01	8.978	-8.573	109.507%	111.151%	0.138	-0.014	0.042	3.642	11.180	0.049
x		10.720	11.380	109.453%	110.266%	0.227	0.009	0.040	3.645	9.625	0.049
σ		3.490	17.280	0.746%	1.114%	0.124	0.045	0.009	0.045	2.025	0.003
%RSD		32.560	151.900	0.682	1.010	54.450	496.200	22.150	1.226	21.040	6.506

Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	02:49:53	0.010	-0.023	0.012	-0.781	109.058%	0.116	-0.014	-0.002	108.995%	0.023
2	02:49:57	0.005	-0.024	-0.019	-0.708	109.028%	0.010	-0.013	0.002	109.096%	0.009
3	02:50:01	0.012	-0.004	0.017	-0.740	110.279%	0.041	-0.018	-0.006	111.484%	0.001
x		0.009	-0.017	0.003	-0.743	109.455%	0.056	-0.015	-0.002	109.858%	0.011
σ		0.004	0.012	0.019	0.036	0.714%	0.054	0.003	0.004	1.408%	0.011
%RSD		42.480	68.550	583.800	4.906	0.652	97.750	17.770	240.800	1.282	102.500

Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	02:49:53	0.300	-0.014	0.014	-0.007	108.601%	0.018	0.029	-0.044	108.431%	0.028
2	02:49:57	0.237	-0.045	-0.002	-0.000	110.575%	0.003	0.009	-0.070	109.066%	0.001
3	02:50:01	0.229	-0.003	0.012	-0.006	110.347%	0.012	0.017	-0.046	109.254%	0.010
x		0.256	-0.021	0.008	-0.004	109.841%	0.011	0.018	-0.054	108.917%	0.013
σ		0.039	0.022	0.009	0.004	1.080%	0.008	0.010	0.015	0.431%	0.013
%RSD		15.150	105.900	109.800	86.050	0.983	72.200	56.650	27.180	0.396	103.100

Run	Time	201Hg	205Tl	208Pb	209Bi	238U
		ppb	ppb	ppb	ppb	ppb
1	02:49:53	0.040	0.079	0.017	106.723%	0.009
2	02:49:57	0.026	0.065	-0.002	108.101%	0.003
3	02:50:01	0.022	0.069	0.016	109.065%	0.009
x		0.029	0.071	0.011	107.963%	0.007
σ		0.009	0.007	0.011	1.177%	0.003
%RSD		31.350	9.919	104.800	1.090	46.800

1925391_9996 8/31/2019 2:56:59 AM

User Pre-dilution: 1.000

Run	Time	7Li	9Be	10B	23Na	25Mg	27Al	28Si	31P	34S	35Cl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	02:57:02	-0.012	0.027	0.011	15.970	1.763	17.730	4.613	39.290	112.300	T 1657000.000
2	02:57:06	-0.005	-0.014	-0.440	8.295	-3.017	10.960	3.002	17.140	104.400	T 1636000.000
3	02:57:10	-0.005	-0.003	-0.237	9.797	-3.319	7.335	3.867	27.690	105.200	T 1672000.000
x		-0.008	0.003	-0.222	11.350	-1.524	12.010	3.827	28.040	107.300	T 1655000.000
σ		0.004	0.021	0.226	4.067	2.851	5.275	0.806	11.080	4.310	T 18230.000
%RSD		54.380	640.300	101.700	35.820	187.000	43.930	21.070	39.510	4.017	T 1.101

Run	Time	39K	43Ca	45Sc-KED	45Sc-CCT	47Ti	51V	52Cr	53Cl O	54Fe	55Mn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	02:57:02	-9.066	25.690	110.516%	108.286%	0.432	-0.009	0.149	3.055	8.875	0.006
2	02:57:06	-16.540	0.262	112.274%	109.324%	0.462	-0.051	0.118	3.018	2.340	-0.018
3	02:57:10	-20.750	0.392	112.081%	112.073%	0.205	-0.204	0.127	3.487	-0.831	-0.003
x		-15.450	8.780	111.624%	109.895%	0.366	-0.088	0.131	3.187	3.461	-0.005
σ		5.915	14.640	0.964%	1.957%	0.141	0.103	0.016	0.261	4.949	0.012
%RSD		38.290	166.800	0.864	1.781	38.410	116.800	12.330	8.184	143.000	236.900

Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	02:57:02	-0.028	0.145	-0.002	0.951	111.048%	0.032	0.184	-0.041	112.200%	-0.018
2	02:57:06	-0.034	0.111	0.001	0.938	110.748%	-0.098	-0.092	-0.057	111.283%	-0.040
3	02:57:10	-0.054	0.130	-0.004	0.931	111.634%	-0.046	0.004	-0.067	112.285%	-0.050
x		-0.038	0.129	-0.002	0.940	111.143%	-0.037	0.032	-0.055	111.923%	-0.036
σ		0.013	0.017	0.003	0.010	0.451%	0.065	0.140	0.013	0.556%	0.016
%RSD		34.630	13.340	147.300	1.027	0.405	176.400	442.000	24.190	0.496	45.350

Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	02:57:02	0.253	-0.066	-0.022	0.006	112.936%	37.640	0.013	-0.104	108.356%	0.021
2	02:57:06	0.101	-0.093	-0.026	-0.048	112.552%	37.580	-0.038	-0.091	108.447%	-0.015
3	02:57:10	0.084	-0.090	-0.043	-0.061	114.996%	37.260	-0.044	-0.149	109.648%	-0.029
x		0.146	-0.083	-0.030	-0.034	113.495%	37.490	-0.023	-0.115	108.817%	-0.008
σ		0.094	0.015	0.011	0.036	1.314%	0.204	0.031	0.030	0.721%	0.025
%RSD		64.120	17.890	37.430	103.100	1.158	0.543	136.200	26.400	0.663	338.600

Run	Time	201Hg	205Tl	208Pb	209Bi	238U
		ppb	ppb	ppb	ppb	ppb
1	02:57:02	-0.004	-0.004	-0.021	109.154%	-0.014
2	02:57:06	0.016	-0.029	-0.044	109.824%	-0.040
3	02:57:10	0.015	-0.044	-0.059	111.143%	-0.054
x		0.009	-0.026	-0.041	110.040%	-0.036
σ		0.011	0.020	0.019	1.012%	0.020
%RSD		120.200	79.300	46.420	0.919	55.430

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User Pre-dilution: 1.000

Run	Time	7Li	9Be	10B	23Na	25Mg	27Al	28Si	31P	34S	35Cl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	03:04:10	-0.076	-0.064	-0.104	34.550	-6.831	22.420	5.224	36.100	98.490	T 1808000.000
2	03:04:14	-0.064	-0.047	0.421	32.870	-8.631	20.750	5.295	15.150	106.700	T 1769000.000
3	03:04:18	-0.065	-0.048	-0.063	31.860	-7.080	18.580	5.714	26.700	122.400	T 1767000.000
x		-0.068	-0.053	0.085	33.090	-7.514	20.590	5.411	25.980	109.200	T 1781000.000
σ		0.007	0.010	0.292	1.360	0.975	1.925	0.265	10.490	12.170	T 23050.000
%RSD		9.668	18.610	344.600	4.110	12.980	9.350	4.890	40.390	11.140	T 1.294

Run	Time	39K	43Ca	45Sc-KED	45Sc-CCT	47Ti	51V	52Cr	53Cl O	54Fe	55Mn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	03:04:10	2.205	0.272	111.548%	113.173%	0.058	0.035	0.129	3.144	0.164	-0.004
2	03:04:14	-8.530	7.932	114.538%	113.164%	0.126	-0.046	0.116	2.996	-1.375	-0.033
3	03:04:18	-11.060	16.140	114.939%	114.705%	0.088	-0.055	0.138	3.200	-1.409	-0.037
x		-5.795	8.115	113.675%	113.681%	0.091	-0.022	0.128	3.113	-0.873	-0.025
σ		7.043	7.935	1.853%	0.887%	0.034	0.050	0.011	0.106	0.898	0.018
%RSD		121.500	97.790	1.630	0.780	37.490	228.100	8.603	3.389	102.900	72.870

Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	03:04:10	-0.052	0.111	0.044	1.826	112.565%	-0.083	-0.062	-0.051	111.342%	-0.056
2	03:04:14	-0.059	0.175	-0.005	1.758	115.955%	-0.007	-0.081	-0.033	113.044%	-0.067
3	03:04:18	-0.066	0.162	0.015	1.555	117.105%	-0.078	-0.044	-0.045	113.323%	-0.065
x		-0.059	0.149	0.018	1.713	115.208%	-0.056	-0.062	-0.043	112.569%	-0.063
σ		0.007	0.034	0.025	0.141	2.360%	0.042	0.018	0.009	1.072%	0.006
%RSD		11.450	22.520	136.900	8.221	2.049	75.140	29.680	21.520	0.952	9.051

Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	03:04:10	0.053	-0.088	-0.034	-0.063	111.960%	37.410	-0.047	-0.117	107.345%	-0.027
2	03:04:14	0.026	-0.087	-0.040	-0.074	114.161%	37.080	-0.053	-0.131	109.097%	-0.033
3	03:04:18	0.023	-0.104	-0.030	-0.064	114.881%	36.720	-0.050	-0.118	109.833%	-0.033
x		0.034	-0.093	-0.035	-0.067	113.667%	37.070	-0.050	-0.122	108.758%	-0.031
σ		0.017	0.010	0.005	0.006	1.522%	0.342	0.003	0.008	1.278%	0.004
%RSD		49.820	10.340	14.920	8.881	1.339	0.923	6.342	6.354	1.175	11.570

Run	Time	201Hg	205Tl	208Pb	209Bi	238U
		ppb	ppb	ppb	ppb	ppb
1	03:04:10	-0.006	-0.051	-0.055	106.647%	-0.055
2	03:04:14	-0.007	-0.059	-0.056	108.560%	-0.060
3	03:04:18	0.009	-0.061	-0.063	109.839%	-0.063
x		-0.001	-0.057	-0.058	108.349%	-0.059
σ		0.009	0.005	0.005	1.606%	0.004
%RSD		696.200	8.928	8.086	1.482	6.484

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User Pre-dilution: 1.000

Run	Time	7Li	9Be	10B	23Na	25Mg	27Al	28Si	31P	34S	35Cl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	03:11:18	-0.074	-0.069	1.263	17.130	-6.634	15.080	6.439	21.010	124.200	T 1883000.000
2	03:11:22	-0.064	-0.065	1.318	17.850	-6.649	13.910	2.281	20.900	111.700	T 1850000.000
3	03:11:26	-0.063	-0.065	0.888	14.910	-6.276	15.620	5.253	15.840	98.440	T 1857000.000
x		-0.067	-0.066	1.156	16.630	-6.520	14.870	4.658	19.250	111.400	T 1863000.000
σ		0.006	0.002	0.234	1.533	0.211	0.872	2.142	2.954	12.870	T 17120.000
%RSD		9.172	3.714	20.220	9.220	3.240	5.863	45.990	15.350	11.550	T 0.919

Run	Time	39K	43Ca	45Sc-KED	45Sc-CCT	47Ti	51V	52Cr	53Cl O	54Fe	55Mn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	03:11:18	-2.675	11.330	115.302%	113.119%	-0.019	-0.072	0.104	3.624	-2.976	-0.026
2	03:11:22	-3.747	7.102	115.501%	113.406%	0.016	-0.215	0.072	4.091	-3.651	-0.023
3	03:11:26	0.373	27.650	114.734%	113.875%	-0.126	-0.168	0.093	3.844	-3.989	-0.030
x		-2.016	15.360	115.179%	113.467%	-0.043	-0.152	0.089	3.853	-3.539	-0.026
σ		2.138	10.850	0.398%	0.382%	0.074	0.073	0.016	0.234	0.516	0.004
%RSD		106.000	70.630	0.346	0.336	173.300	48.040	18.070	6.074	14.580	13.390

Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	03:11:18	-0.067	0.093	-0.062	0.758	114.973%	-0.082	-0.093	0.014	115.094%	-0.084
2	03:11:22	-0.065	0.118	-0.033	0.891	116.108%	-0.082	-0.068	0.027	113.924%	-0.076
3	03:11:26	-0.068	0.064	-0.039	0.824	116.520%	-0.072	0.012	0.025	114.790%	-0.065
x		-0.067	0.092	-0.045	0.825	115.867%	-0.079	-0.050	0.022	114.603%	-0.075
σ		0.002	0.027	0.015	0.067	0.801%	0.006	0.055	0.007	0.607%	0.009
%RSD		2.470	29.150	34.540	8.077	0.692	7.380	109.700	33.320	0.530	12.550

Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	03:11:18	0.003	-0.074	-0.045	-0.079	114.454%	37.040	-0.049	-0.116	109.666%	-0.056
2	03:11:22	0.013	-0.093	-0.044	-0.079	115.855%	36.880	-0.058	-0.131	110.431%	-0.057
3	03:11:26	0.006	-0.083	-0.044	-0.079	116.109%	36.970	-0.049	-0.114	109.835%	-0.047
x		0.007	-0.084	-0.044	-0.079	115.472%	36.960	-0.052	-0.120	109.977%	-0.053
σ		0.005	0.010	0.001	0.000	0.891%	0.078	0.005	0.010	0.402%	0.005
%RSD		70.730	11.820	1.510	0.016	0.772	0.212	9.709	7.935	0.366	10.090

Run	Time	201Hg	205Tl	208Pb	209Bi	238U
		ppb	ppb	ppb	ppb	ppb
1	03:11:18	0.009	-0.069	-0.070	109.855%	-0.065
2	03:11:22	0.003	-0.072	-0.074	108.719%	-0.068
3	03:11:26	0.016	-0.073	-0.072	109.489%	-0.069
x		0.009	-0.071	-0.072	109.354%	-0.068
σ		0.006	0.002	0.002	0.580%	0.002
%RSD		68.730	2.778	2.936	0.530	2.702

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User Pre-dilution: 1.000

Run	Time	7Li	9Be	10B	23Na	25Mg	27Al	28Si	31P	34S	35Cl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	03:18:28	-0.075	-0.057	3.229	5098.000	3170.000	0.559	28.590	M 26000.000	1528.000	T 1868000.000
2	03:18:32	-0.071	-0.057	2.695	5183.000	3209.000	1.602	28.650	M 26160.000	1538.000	T 1868000.000
3	03:18:35	-0.081	-0.078	2.685	5156.000	3216.000	0.437	32.340	M 25710.000	1497.000	T 1830000.000
x		-0.076	-0.064	2.870	5146.000	3198.000	0.866	29.860	M 25960.000	1521.000	T 1855000.000
σ		0.005	0.012	0.312	43.430	24.680	0.640	2.146	M 229.600	21.250	T 22270.000
%RSD		6.451	19.130	10.850	0.844	0.772	73.920	7.187	M 0.884	1.397	T 1.200

Run	Time	39K	43Ca	45Sc-KED	45Sc-CCT	47Ti	51V	52Cr	53Cl O	54Fe	55Mn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	03:18:28	TM 37700.000	480.400	118.125%	116.716%	-0.693	-0.036	0.081	3.360	30.140	1.018
2	03:18:32	TM 37830.000	381.200	118.217%	117.936%	-0.845	0.064	0.045	3.155	29.730	1.005
3	03:18:35	TM 37320.000	388.000	119.657%	120.922%	-0.690	-0.148	0.074	3.989	28.660	1.029
x		TM 37620.000	416.500	118.666%	118.525%	-0.743	-0.040	0.067	3.501	29.510	1.017
σ		TM 264.300	55.420	0.859%	2.164%	0.089	0.106	0.019	0.435	0.763	0.012
%RSD		TM 0.703	13.300	0.724	1.825	11.960	266.600	28.950	12.410	2.586	1.137

Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	03:18:28	-0.067	0.157	2.967	60.410	117.268%	-0.063	1.097	0.215	116.820%	-0.073
2	03:18:32	-0.061	0.147	3.078	60.790	118.327%	-0.074	1.348	0.190	118.605%	-0.069
3	03:18:35	-0.067	0.119	3.067	60.840	116.764%	-0.032	1.196	0.204	120.187%	-0.076
x		-0.065	0.141	3.038	60.680	117.453%	-0.056	1.214	0.203	118.537%	-0.073
σ		0.004	0.020	0.061	0.238	0.797%	0.021	0.126	0.012	1.685%	0.004
%RSD		5.897	14.100	2.006	0.393	0.679	38.280	10.390	6.078	1.421	5.043

Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	03:18:28	0.237	-0.101	-0.052	-0.077	118.768%	35.490	-0.015	-0.074	115.957%	-0.065
2	03:18:32	0.232	-0.098	-0.043	-0.079	121.308%	35.580	-0.028	-0.083	116.536%	-0.065
3	03:18:35	0.232	-0.093	-0.038	-0.074	121.837%	35.660	-0.017	-0.068	117.875%	-0.055
x		0.234	-0.097	-0.044	-0.077	120.638%	35.580	-0.020	-0.075	116.790%	-0.062
σ		0.003	0.004	0.007	0.002	1.641%	0.083	0.007	0.008	0.984%	0.006
%RSD		1.353	3.909	16.490	3.100	1.360	0.232	36.730	10.510	0.843	9.226

Run	Time	201Hg	205Tl	208Pb	209Bi	238U
		ppb	ppb	ppb	ppb	ppb
1	03:18:28	0.020	-0.071	-0.073	114.736%	-0.069
2	03:18:32	-0.005	-0.070	-0.075	116.291%	-0.069
3	03:18:35	0.010	-0.081	-0.075	117.554%	-0.070
x		0.008	-0.074	-0.075	116.193%	-0.069
σ		0.013	0.006	0.001	1.411%	0.001
%RSD		151.400	8.104	1.285	1.215	0.917

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User Pre-dilution: 1.000

Run	Time	7Li	9Be	10B	23Na	25Mg	27Al	28Si	31P	34S	35Cl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	03:25:37	47.220	48.150	102.300	T 16490.000	14040.000	2594.000	283.500	M 31280.000	1590.000	T 1975000.000
2	03:25:41	46.090	47.670	97.440	T 16250.000	13930.000	2599.000	288.300	M 31400.000	1550.000	T 1955000.000
3	03:25:44	46.020	47.060	99.730	T 16190.000	13810.000	2558.000	289.500	M 31250.000	1538.000	T 1932000.000
x		46.450	47.630	99.830	T 16310.000	13930.000	2584.000	287.100	M 31310.000	1559.000	T 1954000.000
σ		0.674	0.548	2.436	T 156.500	115.000	22.570	3.198	M 81.300	27.020	T 21870.000
%RSD		1.451	1.150	2.440	T 0.960	0.826	0.874	1.114	M 0.260	1.733	T 1.119

Run	Time	39K	43Ca	45Sc-KED	45Sc-CCT	47Ti	51V	52Cr	53Cl O	54Fe	55Mn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	03:25:37	TM 99590.000	3114.000	119.618%	119.475%	53.330	53.400	51.970	11.630	2659.000	52.190
2	03:25:41	TM 98800.000	3341.000	121.388%	120.398%	52.450	52.820	52.010	11.450	2629.000	51.850
3	03:25:44	TM 98420.000	3209.000	122.877%	121.639%	51.550	52.420	51.850	11.200	2628.000	52.390
x		TM 98940.000	3221.000	121.294%	120.504%	52.440	52.880	51.940	11.430	2639.000	52.150
σ		TM 601.200	114.000	1.631%	1.086%	0.889	0.490	0.082	0.215	17.690	0.275
%RSD		TM 0.608	3.538	1.345	0.901	1.695	0.927	0.158	1.882	0.670	0.527

Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	03:25:37	51.650	52.380	54.900	275.200	119.152%	53.610	56.790	51.780	119.577%	25.300
2	03:25:41	51.680	52.010	55.210	276.700	121.263%	54.030	55.920	51.430	121.491%	25.310
3	03:25:44	51.290	52.130	54.480	275.400	121.819%	54.000	56.490	51.270	122.769%	T 42.930
x		51.540	52.170	54.860	275.800	120.745%	53.880	56.400	51.490	121.279%	T 31.180
σ		0.217	0.188	0.369	0.777	1.407%	0.233	0.443	0.257	1.606%	T 10.180
%RSD		0.421	0.360	0.673	0.282	1.165	0.433	0.786	0.498	1.325	T 32.640

Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	03:25:37	50.780	-0.112	23.370	52.920	119.133%	82.060	56.090	52.680	114.331%	-0.071
2	03:25:41	51.230	-0.096	23.740	53.280	120.818%	81.100	56.090	52.740	T 115.481%	-0.064
3	03:25:44	51.240	-0.123	23.250	52.660	122.029%	81.400	55.890	52.240	116.180%	-0.060
x		51.080	-0.110	23.450	52.950	120.660%	81.520	56.020	52.550	T 115.330%	-0.065
σ		0.263	0.013	0.254	0.314	1.455%	0.489	0.115	0.277	T 0.934%	0.006
%RSD		0.515	12.190	1.081	0.592	1.206	0.600	0.206	0.528	T 0.810	8.516

Run	Time	201Hg	205Tl	208Pb	209Bi	238U
		ppb	ppb	ppb	ppb	ppb
1	03:25:37	1.222	52.260	51.600	109.353%	53.120
2	03:25:41	1.294	52.720	52.080	111.240%	52.720
3	03:25:44	1.277	52.180	51.990	111.501%	52.560
x		1.264	52.390	51.890	110.698%	52.800
σ		0.038	0.288	0.258	1.172%	0.289
%RSD		2.983	0.549	0.496	1.059	0.547

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User Pre-dilution: 1.000

Run	Time	7Li	9Be	10B	23Na	25Mg	27Al	28Si	31P	34S	35Cl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	03:32:45	1.312	-0.023	13.790	TM 106400.000	5673.000	44.150	119.300	M 59230.000	4648.000	T 2059000.000
2	03:32:48	1.272	-0.004	14.150	TM 104900.000	5610.000	45.820	116.500	M 58510.000	4685.000	T 2039000.000
3	03:32:52	1.322	-0.024	14.490	TM 106100.000	5711.000	44.420	112.200	M 59070.000	4640.000	T 2072000.000
x		1.302	-0.017	14.150	TM 105800.000	5665.000	44.800	116.000	M 58930.000	4658.000	T 2057000.000
σ		0.026	0.011	0.347	TM 846.800	50.920	0.896	3.534	M 379.600	24.110	T 16660.000
%RSD		2.034	67.200	2.453	TM 0.800	0.899	2.000	3.047	M 0.644	0.518	T 0.810

Run	Time	39K	43Ca	45Sc-KED	45Sc-CCT	47Ti	51V	52Cr	53Cl O	54Fe	55Mn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	03:32:45	TM 73890.000	12730.000	113.600%	116.167%	0.483	45.900	3.427	4.129	818.400	71.860
2	03:32:48	TM 72790.000	12900.000	114.675%	119.220%	0.850	45.580	3.549	4.273	803.700	71.460
3	03:32:52	TM 74190.000	12960.000	113.937%	118.095%	0.661	45.330	3.435	4.345	815.900	72.100
x		TM 73620.000	12860.000	114.071%	117.827%	0.665	45.600	3.470	4.249	812.700	71.810
σ		TM 739.100	119.700	0.550%	1.544%	0.184	0.288	0.068	0.110	7.877	0.325
%RSD		TM 1.004	0.930	0.482	1.310	27.610	0.632	1.962	2.582	0.969	0.452

Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	03:32:45	5.176	21.990	TM 2375.000	M 668.400	115.047%	340.100	57.050	160.700	119.264%	0.017
2	03:32:48	5.260	21.930	TM 2389.000	M 678.200	113.975%	345.200	59.140	161.700	119.739%	-0.005
3	03:32:52	5.130	21.880	TM 2371.000	M 670.500	115.429%	343.500	55.090	160.800	121.230%	-0.001
x		5.189	21.930	TM 2378.000	M 672.400	114.817%	342.900	57.090	161.100	120.078%	0.003
σ		0.066	0.051	TM 9.693	M 5.178	0.754%	2.605	2.026	0.519	1.026%	0.012
%RSD		1.268	0.231	TM 0.408	M 0.770	0.656	0.760	3.548	0.323	0.854	349.500

Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	03:32:45	15.950	-0.100	46.210	207.200	113.175%	18.790	0.299	1.008	110.017%	-0.064
2	03:32:48	16.080	-0.067	46.490	207.000	114.132%	18.930	0.262	1.013	112.236%	-0.056
3	03:32:52	15.880	-0.094	46.290	205.300	115.258%	18.640	0.328	1.028	112.881%	-0.049
x		15.970	-0.087	46.330	206.500	114.188%	18.790	0.296	1.016	111.711%	-0.056
σ		0.104	0.018	0.145	1.034	1.043%	0.146	0.033	0.010	1.502%	0.007
%RSD		0.650	20.460	0.312	0.501	0.913	0.779	11.090	0.998	1.345	13.250

Run	Time	201Hg	205Tl	208Pb	209Bi	238U
		ppb	ppb	ppb	ppb	ppb
1	03:32:45	1.101	0.019	0.950	104.708%	0.493
2	03:32:48	1.156	0.018	0.972	106.319%	0.499
3	03:32:52	1.185	0.013	0.971	106.287%	0.490
x		1.147	0.017	0.964	105.771%	0.494
σ		0.043	0.003	0.012	0.921%	0.004
%RSD		3.708	17.970	1.258	0.871	0.887

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User Pre-dilution: 1.000

Run	Time	7Li	9Be	10B	23Na	25Mg	27Al	28Si	31P	34S	35Cl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	03:39:53	2.480	-0.008	27.340	TM 204600.000	11070.000	73.790	239.200	M 119600.000	8919.000	T 2035000.000
2	03:39:56	2.404	0.004	27.420	TM 205500.000	11130.000	76.290	246.900	M 120300.000	9131.000	T 2030000.000
3	03:40:00	2.623	0.017	26.570	TM 207200.000	11180.000	74.750	247.800	M 120600.000	9073.000	T 2046000.000
x		2.502	0.005	27.110	TM 205700.000	11130.000	74.940	244.700	M 120200.000	9041.000	T 2037000.000
σ		0.111	0.012	0.472	TM 1330.000	53.920	1.260	4.715	M 511.200	109.300	T 8223.000
%RSD		4.439	274.900	1.742	TM 0.646	0.485	1.681	1.927	M 0.425	1.209	T 0.404

Run	Time	39K	43Ca	45Sc-KED	45Sc-CCT	47Ti	51V	52Cr	53Cl O	54Fe	55Mn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	03:39:53	TM 145800.000	M 25060.000	114.424%	118.716%	2.123	91.500	6.793	4.342	1628.000	143.700
2	03:39:56	TM 145900.000	M 25820.000	115.254%	120.015%	1.775	92.640	6.493	4.299	1645.000	145.600
3	03:40:00	TM 147100.000	M 25680.000	114.662%	118.768%	1.593	92.130	6.575	4.376	1630.000	145.700
x		TM 146200.000	M 25520.000	114.780%	119.166%	1.830	92.090	6.620	4.339	1634.000	145.000
σ		TM 700.600	M 404.700	0.427%	0.735%	0.269	0.572	0.155	0.039	9.456	1.117
%RSD		TM 0.479	M 1.586	0.372	0.617	14.710	0.621	2.342	0.890	0.579	0.770

Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	03:39:53	10.570	44.010	TM 4561.000	M 1343.000	115.503%	M 721.700	125.100	311.100	127.680%	0.053
2	03:39:56	10.260	44.590	TM 4557.000	M 1354.000	116.176%	M 721.200	124.700	309.100	130.003%	0.045
3	03:40:00	10.400	43.360	TM 4522.000	M 1333.000	117.817%	M 715.600	123.600	311.300	130.382%	0.057
x		10.410	43.990	TM 4547.000	M 1343.000	116.499%	M 719.500	124.500	310.500	129.355%	0.052
σ		0.157	0.612	TM 21.190	M 10.400	1.190%	M 3.415	0.799	1.203	1.463%	0.006
%RSD		1.505	1.392	TM 0.466	M 0.775	1.021	M 0.475	0.642	0.387	1.131	12.160

Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	03:39:53	30.700	-0.068	89.690	405.300	117.223%	37.200	0.610	2.109	116.096%	-0.075
2	03:39:56	30.270	-0.058	88.190	401.800	119.116%	37.040	0.623	2.098	117.100%	-0.061
3	03:40:00	30.470	-0.067	89.300	408.200	118.854%	37.720	0.609	2.035	118.314%	-0.061
x		30.480	-0.064	89.060	405.100	118.397%	37.320	0.614	2.081	117.170%	-0.065
σ		0.218	0.006	0.779	3.205	1.025%	0.356	0.008	0.040	1.110%	0.008
%RSD		0.714	8.919	0.874	0.791	0.866	0.955	1.233	1.917	0.948	12.070

Run	Time	201Hg	205Tl	208Pb	209Bi	238U
		ppb	ppb	ppb	ppb	ppb
1	03:39:53	2.320	0.043	1.999	107.570%	1.067
2	03:39:56	2.461	0.042	1.989	109.817%	1.054
3	03:40:00	2.322	0.046	1.975	110.242%	1.048
x		2.367	0.044	1.988	109.210%	1.056
σ		0.081	0.002	0.012	1.436%	0.010
%RSD		3.422	4.581	0.605	1.315	0.932

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User Pre-dilution: 1.000

Run	Time	7Li	9Be	10B	23Na	25Mg	27Al	28Si	31P	34S	35Cl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	03:47:02	92.750	94.060	91.250	5118.000	5090.000	5005.000	5029.000	5339.000	96.800	T 2142000.000
2	03:47:06	95.020	96.840	95.890	5166.000	5251.000	5044.000	5050.000	5421.000	104.700	T 2155000.000
3	03:47:10	96.020	96.140	96.160	5051.000	5052.000	4913.000	4972.000	5176.000	96.400	T 2145000.000
x		94.600	95.680	94.430	5111.000	5131.000	4987.000	5017.000	5312.000	99.300	T 2147000.000
σ		1.675	1.445	2.758	57.800	105.500	67.420	40.300	125.100	4.680	T 7043.000
%RSD		1.771	1.510	2.921	1.131	2.056	1.352	0.803	2.354	4.713	T 0.328

Run	Time	39K	43Ca	45Sc-KED	45Sc-CCT	47Ti	51V	52Cr	53Cl O	54Fe	55Mn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	03:47:02	5032.000	5218.000	112.212%	113.845%	102.800	101.900	102.300	15.810	5047.000	100.900
2	03:47:06	5058.000	5089.000	113.182%	111.142%	102.700	101.900	102.200	18.680	5079.000	100.100
3	03:47:10	5040.000	5236.000	113.966%	113.243%	100.400	101.500	102.100	17.530	5002.000	100.200
x		5043.000	5181.000	113.120%	112.744%	102.000	101.800	102.200	17.340	5043.000	100.400
σ		12.990	80.080	0.879%	1.419%	1.355	0.205	0.110	1.447	38.870	0.449
%RSD		0.258	1.546	0.777	1.259	1.329	0.202	0.107	8.346	0.771	0.447

Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	03:47:02	102.700	105.500	104.600	102.900	112.623%	103.400	101.700	100.300	114.373%	101.100
2	03:47:06	102.500	104.000	103.900	103.300	116.138%	101.800	101.100	99.410	116.206%	100.600
3	03:47:10	102.200	103.400	103.200	102.100	116.040%	102.900	98.340	100.700	115.435%	101.200
x		102.500	104.300	103.900	102.700	114.934%	102.700	100.400	100.100	115.338%	101.000
σ		0.269	1.074	0.685	0.602	2.002%	0.844	1.798	0.640	0.920%	0.359
%RSD		0.263	1.030	0.659	0.586	1.741	0.822	1.791	0.639	0.798	0.356

Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	03:47:02	102.700	104.000	52.200	103.200	117.416%	102.800	103.700	101.800	116.371%	103.500
2	03:47:06	102.600	104.000	52.040	101.900	120.435%	102.800	103.700	104.900	T 110.755%	103.900
3	03:47:10	102.400	103.400	51.950	103.100	120.630%	103.100	102.200	101.500	117.890%	101.500
x		102.600	103.800	52.060	102.700	119.494%	102.900	103.200	102.800	T 115.005%	102.900
σ		0.165	0.354	0.130	0.719	1.802%	0.167	0.880	1.905	T 3.758%	1.288
%RSD		0.161	0.341	0.250	0.700	1.508	0.162	0.853	1.854	T 3.268	1.251

Run	Time	201Hg	205Tl	208Pb	209Bi	238U
		ppb	ppb	ppb	ppb	ppb
1	03:47:02	4.994	105.500	102.900	114.333%	103.800
2	03:47:06	5.059	105.500	102.900	117.890%	103.300
3	03:47:10	4.890	105.100	102.500	117.784%	T 93.990
x		4.981	105.400	102.800	116.669%	T 100.400
σ		0.085	0.240	0.233	2.024%	T 5.523
%RSD		1.706	0.228	0.226	1.735	T 5.503

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User Pre-dilution: 1.000

Run	Time	7Li	9Be	10B	23Na	25Mg	27Al	28Si	31P	34S	35Cl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	03:54:12	-0.042	-0.023	-0.059	31.570	3.628	2.938	-3.057	13.380	102.000	T 2052000.000
2	03:54:16	-0.036	-0.028	-0.239	30.320	4.845	4.542	-1.518	-1.916	107.400	T 2034000.000
3	03:54:20	-0.030	-0.036	-0.281	25.030	3.007	4.287	-3.987	-4.948	91.630	T 2044000.000
x		-0.036	-0.029	-0.193	28.970	3.827	3.922	-2.854	2.174	100.400	T 2043000.000
σ		0.006	0.007	0.118	3.475	0.935	0.862	1.247	9.827	8.026	T 8874.000
%RSD		17.300	23.080	61.030	12.000	24.430	21.980	43.680	452.100	7.998	T 0.434

Run	Time	39K	43Ca	45Sc-KED	45Sc-CCT	47Ti	51V	52Cr	53Cl O	54Fe	55Mn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	03:54:12	25.950	2.948	114.929%	115.909%	0.087	0.005	0.059	3.746	4.783	0.098
2	03:54:16	21.020	14.470	116.070%	118.858%	0.193	0.074	0.031	3.338	4.199	0.089
3	03:54:20	19.090	10.870	115.861%	117.298%	0.230	0.004	0.048	3.878	4.550	0.083
x		22.020	9.430	115.620%	117.355%	0.170	0.027	0.046	3.654	4.511	0.090
σ		3.534	5.895	0.607%	1.475%	0.074	0.040	0.015	0.282	0.294	0.008
%RSD		16.050	62.510	0.525	1.257	43.430	145.900	31.500	7.706	6.517	8.371

Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	03:54:12	0.029	0.021	0.608	-0.564	116.992%	0.150	-0.070	0.038	116.834%	0.019
2	03:54:16	0.006	0.018	0.639	-0.504	116.371%	0.103	0.110	0.080	115.763%	0.007
3	03:54:20	0.016	0.026	0.470	-0.512	116.040%	0.158	0.206	0.042	117.098%	0.007
x		0.017	0.022	0.572	-0.527	116.468%	0.137	0.082	0.053	116.565%	0.011
σ		0.012	0.004	0.090	0.033	0.483%	0.030	0.140	0.023	0.707%	0.007
%RSD		68.140	16.730	15.680	6.273	0.415	21.680	170.500	43.170	0.607	61.170

Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	03:54:12	0.120	0.005	0.040	0.094	114.990%	0.023	0.039	-0.080	113.208%	0.032
2	03:54:16	0.135	0.001	0.026	0.081	116.370%	0.017	0.060	-0.031	112.566%	0.029
3	03:54:20	0.149	-0.018	0.013	0.063	115.967%	0.010	0.043	-0.023	112.992%	0.029
x		0.134	-0.004	0.026	0.079	115.776%	0.017	0.047	-0.045	112.922%	0.030
σ		0.015	0.012	0.013	0.016	0.709%	0.006	0.011	0.031	0.327%	0.001
%RSD		10.880	299.700	50.990	19.720	0.613	37.760	22.910	69.170	0.289	4.515

Run	Time	201Hg	205Tl	208Pb	209Bi	238U
		ppb	ppb	ppb	ppb	ppb
1	03:54:12	0.024	0.069	0.029	111.911%	0.024
2	03:54:16	0.015	0.070	0.028	111.585%	0.031
3	03:54:20	0.008	0.055	0.019	112.142%	0.018
x		0.016	0.064	0.025	111.879%	0.024
σ		0.008	0.008	0.005	0.279%	0.006
%RSD		50.190	13.180	21.310	0.250	25.390

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User Pre-dilution: 1.000

Run	Time	7Li	9Be	10B	23Na	25Mg	27Al	28Si	31P	34S	35Cl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	04:01:19	-0.073	-0.069	0.038	6361.000	1574.000	14.170	9.464	17390.000	971.900	T 1988000.000
2	04:01:23	-0.066	-0.070	0.000	6292.000	1555.000	12.310	11.090	17320.000	945.000	T 1986000.000
3	04:01:27	-0.065	-0.074	0.187	6367.000	1586.000	15.060	11.210	17450.000	931.100	T 1968000.000
x		-0.068	-0.071	0.075	6340.000	1572.000	13.840	10.590	17390.000	949.300	T 1981000.000
σ		0.004	0.002	0.099	41.380	15.510	1.403	0.977	65.940	20.730	T 10770.000
%RSD		6.143	3.213	131.800	0.653	0.987	10.130	9.230	0.379	2.184	T 0.544

Run	Time	39K	43Ca	45Sc-KED	45Sc-CCT	47Ti	51V	52Cr	53Cl O	54Fe	55Mn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	04:01:19	T 17290.000	1510.000	118.906%	117.683%	-0.514	0.125	0.699	3.606	236.100	3.775
2	04:01:23	T 17300.000	1742.000	118.630%	120.288%	-0.577	0.029	0.621	4.029	239.700	3.905
3	04:01:27	T 17120.000	1538.000	118.543%	117.155%	-0.308	0.071	0.704	3.838	235.600	3.846
x		T 17240.000	1597.000	118.693%	118.375%	-0.466	0.075	0.675	3.824	237.100	3.842
σ		T 102.200	126.500	0.189%	1.677%	0.141	0.048	0.046	0.212	2.251	0.065
%RSD		T 0.593	7.923	0.160	1.417	30.120	63.750	6.885	5.536	0.949	1.692

Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	04:01:19	2.598	0.058	30.820	131.200	120.106%	0.111	4.287	1.185	119.539%	-0.051
2	04:01:23	2.593	0.086	31.090	130.900	120.436%	0.131	4.037	1.261	119.968%	-0.046
3	04:01:27	2.516	0.048	31.500	131.700	119.612%	0.116	4.219	1.235	119.953%	-0.035
x		2.569	0.064	31.140	131.300	120.052%	0.119	4.181	1.227	119.820%	-0.044
σ		0.046	0.020	0.345	0.413	0.415%	0.011	0.129	0.039	0.243%	0.008
%RSD		1.790	30.590	1.107	0.315	0.345	9.009	3.094	3.154	0.203	18.330

Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	04:01:19	0.462	-0.130	0.089	0.777	120.364%	18.060	-0.026	0.755	116.599%	-0.051
2	04:01:23	0.503	-0.098	0.087	0.836	122.635%	17.980	-0.033	0.731	T 114.641%	-0.030
3	04:01:27	0.491	-0.095	0.088	0.821	122.458%	17.990	-0.015	0.726	119.760%	-0.043
x		0.485	-0.108	0.088	0.811	121.819%	18.010	-0.025	0.737	T 117.000%	-0.041
σ		0.021	0.020	0.001	0.031	1.263%	0.046	0.009	0.015	T 2.583%	0.011
%RSD		4.300	18.350	1.203	3.811	1.037	0.254	37.600	2.031	T 2.208	25.740

Run	Time	201Hg	205Tl	208Pb	209Bi	238U
		ppb	ppb	ppb	ppb	ppb
1	04:01:19	0.089	-0.037	-0.046	117.091%	-0.037
2	04:01:23	0.124	-0.030	-0.038	118.552%	-0.029
3	04:01:27	0.077	-0.033	-0.041	119.940%	-0.029
x		0.097	-0.033	-0.042	118.527%	-0.032
σ		0.024	0.004	0.004	1.425%	0.004
%RSD		25.250	11.440	8.840	1.202	13.700

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User Pre-dilution: 1.000

Run	Time	7Li	9Be	10B	23Na	25Mg	27Al	28Si	31P	34S	35Cl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	04:08:27	23.040	23.720	47.410	11710.000	6967.000	1298.000	143.800	19750.000	917.900	T 1978000.000
2	04:08:31	22.540	23.610	47.580	11450.000	6809.000	1285.000	134.400	19480.000	904.200	T 1962000.000
3	04:08:35	23.100	23.200	47.200	11550.000	6951.000	1316.000	145.000	19870.000	932.600	T 1940000.000
x		22.890	23.510	47.400	11570.000	6909.000	1300.000	141.100	19700.000	918.200	T 1960000.000
σ		0.307	0.276	0.192	130.600	87.020	15.590	5.802	199.400	14.190	T 19000.000
%RSD		1.342	1.173	0.404	1.129	1.260	1.199	4.113	1.012	1.546	T 0.970

Run	Time	39K	43Ca	45Sc-KED	45Sc-CCT	47Ti	51V	52Cr	53Cl O	54Fe	55Mn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	04:08:27	TM 48480.000	3112.000	119.175%	119.358%	27.400	26.770	26.830	7.898	1545.000	29.330
2	04:08:31	TM 47930.000	3208.000	122.475%	122.229%	25.790	26.220	26.360	7.294	1535.000	29.370
3	04:08:35	TM 48150.000	3118.000	121.992%	122.796%	26.860	26.110	26.840	8.982	1561.000	29.590
x		TM 48190.000	3146.000	121.214%	121.461%	26.680	26.370	26.670	8.058	1547.000	29.430
σ		TM 273.000	53.880	1.782%	1.843%	0.819	0.352	0.274	0.855	13.160	0.135
%RSD		TM 0.567	1.713	1.470	1.518	3.070	1.335	1.028	10.610	0.851	0.460

Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	04:08:27	28.400	26.390	56.300	222.500	122.610%	25.940	30.850	26.370	122.340%	4.625
2	04:08:31	28.290	26.110	55.630	221.700	124.429%	25.890	30.690	26.810	123.294%	4.519
3	04:08:35	28.300	26.160	56.420	223.400	122.929%	26.630	31.140	26.660	124.006%	4.700
x		28.330	26.220	56.120	222.500	123.323%	26.150	30.890	26.610	123.213%	4.615
σ		0.060	0.151	0.424	0.863	0.971%	0.415	0.231	0.225	0.836%	0.091
%RSD		0.213	0.576	0.756	0.388	0.787	1.585	0.748	0.846	0.678	1.971

Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	04:08:27	25.610	-0.113	11.920	27.650	123.910%	38.590	27.390	26.730	117.408%	-0.053
2	04:08:31	25.630	-0.077	12.010	27.910	125.065%	38.300	27.480	26.690	120.854%	-0.051
3	04:08:35	25.750	-0.128	12.090	27.990	124.748%	38.330	28.090	27.210	119.896%	-0.041
x		25.670	-0.106	12.000	27.850	124.574%	38.410	27.650	26.880	119.386%	-0.048
σ		0.077	0.026	0.086	0.181	0.597%	0.157	0.382	0.286	1.779%	0.007
%RSD		0.299	24.610	0.720	0.648	0.479	0.409	1.381	1.062	1.490	13.660

Run	Time	201Hg	205Tl	208Pb	209Bi	238U
		ppb	ppb	ppb	ppb	ppb
1	04:08:27	0.719	25.490	25.850	116.273%	26.040
2	04:08:31	0.764	25.900	25.670	117.885%	26.140
3	04:08:35	0.719	25.870	25.660	118.567%	25.870
x		0.734	25.750	25.730	117.575%	26.020
σ		0.026	0.227	0.110	1.178%	0.138
%RSD		3.521	0.880	0.429	1.002	0.530

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User Pre-dilution: 1.000

Run	Time	7Li	9Be	10B	23Na	25Mg	27Al	28Si	31P	34S	35Cl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	04:15:36	23.100	23.530	47.040	11830.000	7074.000	1305.000	134.300	20490.000	943.400	T 2014000.000
2	04:15:39	22.980	23.430	46.570	11880.000	7136.000	1322.000	138.800	20520.000	934.600	T 1995000.000
3	04:15:43	23.280	24.190	47.850	T 12760.000	7040.000	1296.000	139.200	20550.000	1000.000	T 1991000.000
x		23.120	23.720	47.150	T 12160.000	7084.000	1308.000	137.400	20520.000	959.400	T 2000000.000
σ		0.149	0.417	0.645	T 522.600	48.650	13.230	2.741	30.600	35.560	T 12560.000
%RSD		0.646	1.759	1.367	T 4.298	0.687	1.012	1.995	0.149	3.706	T 0.628

Run	Time	39K	43Ca	45Sc-KED	45Sc-CCT	47Ti	51V	52Cr	53Cl O	54Fe	55Mn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	04:15:36	TM 49770.000	3454.000	120.334%	120.368%	25.810	27.000	27.020	7.006	1545.000	29.980
2	04:15:39	TM 49130.000	3465.000	120.932%	122.958%	26.110	26.460	26.870	9.074	1542.000	29.890
3	04:15:43	TM 49680.000	3425.000	121.841%	123.830%	25.850	26.770	26.900	8.632	1555.000	30.240
x		TM 49530.000	3448.000	121.036%	122.385%	25.920	26.740	26.930	8.237	1547.000	30.040
σ		TM 347.500	20.170	0.759%	1.801%	0.160	0.275	0.078	1.089	6.502	0.184
%RSD		TM 0.702	0.585	0.627	1.471	0.619	1.030	0.290	13.220	0.420	0.612

Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	04:15:36	29.160	26.740	57.050	245.700	119.938%	26.300	32.190	26.930	120.814%	3.810
2	04:15:39	28.860	26.520	56.790	245.200	123.051%	26.250	30.360	26.890	122.003%	3.896
3	04:15:43	29.010	26.330	55.990	246.300	124.666%	26.160	31.010	27.200	122.781%	3.876
x		29.010	26.530	56.610	245.700	122.551%	26.240	31.190	27.010	121.866%	3.861
σ		0.148	0.203	0.550	0.532	2.403%	0.070	0.928	0.167	0.990%	0.045
%RSD		0.511	0.766	0.973	0.216	1.961	0.265	2.974	0.620	0.813	1.161

Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	04:15:36	26.280	-0.113	12.150	27.760	120.747%	38.110	27.750	27.600	116.443%	-0.058
2	04:15:39	26.110	-0.118	12.110	28.170	121.839%	38.230	27.770	27.250	T 118.703%	-0.057
3	04:15:43	26.330	-0.102	12.180	27.720	123.531%	38.120	27.870	26.950	119.543%	-0.061
x		26.240	-0.111	12.150	27.880	122.039%	38.150	27.800	27.270	T 118.229%	-0.059
σ		0.119	0.008	0.035	0.252	1.403%	0.064	0.062	0.328	T 1.603%	0.002
%RSD		0.455	7.062	0.291	0.905	1.149	0.167	0.223	1.203	T 1.356	3.748

Run	Time	201Hg	205Tl	208Pb	209Bi	238U
		ppb	ppb	ppb	ppb	ppb
1	04:15:36	0.824	25.830	25.740	112.779%	26.130
2	04:15:39	0.707	26.160	25.790	114.217%	25.970
3	04:15:43	0.724	25.660	26.000	115.529%	26.170
x		0.752	25.880	25.840	114.175%	26.090
σ		0.063	0.253	0.135	1.375%	0.102
%RSD		8.375	0.979	0.523	1.204	0.392

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User Pre-dilution: 1.000

Run	Time	7Li	9Be	10B	23Na	25Mg	27Al	28Si	31P	34S	35Cl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	04:22:44	43.640	46.530	92.760	T 17700.000	11950.000	2494.000	273.400	23440.000	947.800	T 1976000.000
2	04:22:47	44.100	45.660	92.630	T 17330.000	11920.000	2492.000	259.000	23030.000	965.100	T 1918000.000
3	04:22:50	43.200	44.830	93.150	T 17430.000	11930.000	2507.000	261.400	23190.000	957.600	T 1924000.000
x		43.640	45.670	92.850	T 17490.000	11940.000	2498.000	264.600	23220.000	956.800	T 1939000.000
σ		0.453	0.848	0.271	T 193.500	11.780	7.800	7.698	210.200	8.671	T 32330.000
%RSD		1.038	1.856	0.292	T 1.106	0.099	0.312	2.909	0.906	0.906	T 1.667

Run	Time	39K	43Ca	45Sc-KED	45Sc-CCT	47Ti	51V	52Cr	53Cl O	54Fe	55Mn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	04:22:44	TM 78310.000	4140.000	121.924%	123.289%	49.190	51.600	50.890	12.000	2783.000	53.030
2	04:22:47	TM 77230.000	4210.000	125.497%	126.055%	49.490	50.650	50.420	11.550	2707.000	52.510
3	04:22:50	TM 76930.000	4376.000	125.002%	124.083%	50.370	51.030	50.640	11.710	2724.000	52.510
x		TM 77490.000	4242.000	124.141%	124.476%	49.680	51.090	50.650	11.750	2738.000	52.680
σ		TM 723.700	121.300	1.936%	1.424%	0.612	0.477	0.237	0.230	40.000	0.300
%RSD		TM 0.934	2.859	1.559	1.144	1.232	0.934	0.467	1.955	1.461	0.569

Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	04:22:44	52.930	51.100	81.150	344.400	122.005%	50.610	57.500	50.770	123.397%	50.460
2	04:22:47	52.360	50.460	79.830	337.300	126.346%	50.420	54.970	50.750	125.264%	50.880
3	04:22:50	52.300	50.060	80.170	344.200	123.944%	51.540	55.300	50.540	125.350%	50.840
x		52.530	50.540	80.380	342.000	124.098%	50.860	55.920	50.690	124.670%	50.730
σ		0.349	0.528	0.686	4.056	2.175%	0.603	1.376	0.127	1.103%	0.236
%RSD		0.664	1.044	0.853	1.186	1.752	1.185	2.460	0.251	0.885	0.464

Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	04:22:44	48.170	-0.120	22.800	51.950	123.401%	69.830	52.740	51.120	117.309%	-0.050
2	04:22:47	47.880	-0.117	22.670	51.890	125.259%	69.640	52.810	51.520	121.260%	-0.048
3	04:22:50	47.620	-0.104	22.600	52.380	124.854%	69.620	52.560	51.300	119.627%	-0.061
x		47.890	-0.114	22.690	52.070	124.504%	69.700	52.700	51.310	119.399%	-0.053
σ		0.277	0.008	0.101	0.264	0.977%	0.113	0.129	0.201	1.986%	0.007
%RSD		0.578	7.456	0.445	0.508	0.785	0.162	0.245	0.392	1.663	13.410

Run	Time	201Hg	205Tl	208Pb	209Bi	238U
		ppb	ppb	ppb	ppb	ppb
1	04:22:44	1.406	50.590	49.720	112.817%	50.170
2	04:22:47	1.446	50.400	49.860	115.549%	50.470
3	04:22:50	1.449	50.690	50.050	114.761%	50.820
x		1.433	50.560	49.870	114.376%	50.480
σ		0.024	0.148	0.164	1.406%	0.326
%RSD		1.671	0.292	0.329	1.230	0.646

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User Pre-dilution: 1.000

Run	Time	7Li	9Be	10B	23Na	25Mg	27Al	28Si	31P	34S	35Cl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	04:29:53	-0.076	-0.070	0.484	12730.000	3119.000	11.230	23.320	M 34840.000	1844.000	T 1961000.000
2	04:29:57	-0.065	-0.058	-0.070	T 13070.000	3158.000	13.180	20.220	M 34860.000	1790.000	T 1945000.000
3	04:30:01	-0.065	-0.078	0.721	T 12840.000	3125.000	10.940	20.860	M 34930.000	1806.000	T 1909000.000
x		-0.068	-0.069	0.379	T 12880.000	3134.000	11.780	21.470	M 34880.000	1813.000	T 1939000.000
σ		0.006	0.010	0.406	T 175.400	21.050	1.217	1.639	M 46.380	27.310	T 26940.000
%RSD		9.139	14.940	107.300	T 1.362	0.671	10.330	7.633	M 0.133	1.506	T 1.390

Run	Time	39K	43Ca	45Sc-KED	45Sc-CCT	47Ti	51V	52Cr	53Cl O	54Fe	55Mn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	04:29:53	TM 34810.000	3275.000	117.218%	121.948%	-0.074	0.296	1.170	4.512	476.700	7.623
2	04:29:57	TM 34560.000	3339.000	117.631%	121.132%	-0.505	0.332	1.178	4.037	478.000	7.580
3	04:30:01	TM 34240.000	3162.000	118.920%	122.784%	-0.915	0.368	1.101	4.111	473.500	7.594
x		TM 34540.000	3258.000	117.923%	121.954%	-0.498	0.332	1.150	4.220	476.100	7.599
σ		TM 288.900	89.690	0.888%	0.826%	0.421	0.036	0.043	0.256	2.350	0.022
%RSD		TM 0.837	2.753	0.753	0.677	84.470	10.930	3.707	6.057	0.494	0.288

Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	04:29:53	5.217	0.204	60.870	263.900	118.196%	0.174	8.103	2.529	118.829%	-0.004
2	04:29:57	5.306	0.228	60.420	263.700	118.730%	0.247	8.674	2.602	118.595%	-0.004
3	04:30:01	5.187	0.223	60.530	264.200	119.727%	0.268	8.453	2.482	119.426%	-0.022
x		5.237	0.218	60.610	263.900	118.884%	0.230	8.410	2.538	118.950%	-0.010
σ		0.061	0.013	0.236	0.263	0.777%	0.049	0.288	0.060	0.428%	0.010
%RSD		1.174	5.825	0.390	0.100	0.654	21.320	3.423	2.379	0.360	100.100

Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	04:29:53	1.021	-0.103	0.228	1.768	119.701%	35.630	0.025	1.579	T 114.030%	-0.073
2	04:29:57	0.984	-0.087	0.229	1.764	121.007%	35.950	0.071	1.595	118.001%	-0.074
3	04:30:01	1.004	-0.096	0.226	1.613	122.235%	35.920	0.041	1.601	119.299%	-0.074
x		1.003	-0.095	0.228	1.715	120.981%	35.840	0.046	1.592	T 117.110%	-0.073
σ		0.018	0.008	0.002	0.088	1.267%	0.176	0.023	0.011	T 2.745%	0.001
%RSD		1.835	8.825	0.769	5.155	1.047	0.492	50.940	0.714	T 2.344	0.755

Run	Time	201Hg	205Tl	208Pb	209Bi	238U
		ppb	ppb	ppb	ppb	ppb
1	04:29:53	0.203	0.055	0.017	114.066%	0.025
2	04:29:57	0.209	0.054	0.027	115.299%	0.045
3	04:30:01	0.211	0.023	-0.007	115.966%	0.016
x		0.208	0.044	0.013	115.110%	0.029
σ		0.004	0.018	0.017	0.964%	0.015
%RSD		1.875	41.090	138.000	0.837	51.630

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User Pre-dilution: 1.000

Run	Time	7Li	9Be	10B	23Na	25Mg	27Al	28Si	31P	34S	35Cl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	04:37:01	45.840	46.610	93.580	T 23840.000	13730.000	2530.000	283.300	M 40010.000	1749.000	T 1975000.000
2	04:37:05	45.110	47.150	94.950	T 24000.000	13690.000	2579.000	281.800	M 40180.000	1774.000	T 1958000.000
3	04:37:08	44.670	45.980	93.170	T 24030.000	13660.000	2560.000	283.600	M 39650.000	1833.000	T 1960000.000
x		45.200	46.580	93.900	T 23950.000	13690.000	2556.000	282.900	M 39950.000	1785.000	T 1964000.000
σ		0.590	0.584	0.929	T 104.000	36.520	24.790	0.973	M 267.000	42.900	T 9393.000
%RSD		1.306	1.254	0.989	T 0.434	0.267	0.970	0.344	M 0.668	2.403	T 0.478

Run	Time	39K	43Ca	45Sc-KED	45Sc-CCT	47Ti	51V	52Cr	53Cl O	54Fe	55Mn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	04:37:01	TM 98270.000	6229.000	118.706%	122.224%	52.600	53.670	53.060	10.910	3092.000	58.270
2	04:37:05	TM 96880.000	6404.000	120.871%	123.602%	50.600	53.010	52.460	10.170	3039.000	57.610
3	04:37:08	TM 97420.000	5990.000	120.675%	124.158%	53.120	53.570	52.740	12.080	3061.000	58.150
x		TM 97520.000	6208.000	120.084%	123.328%	52.110	53.420	52.760	11.050	3064.000	58.010
σ		TM 700.500	207.900	1.197%	0.996%	1.329	0.353	0.297	0.965	26.880	0.352
%RSD		TM 0.718	3.348	0.997	0.807	2.551	0.661	0.563	8.731	0.878	0.607

Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	04:37:01	56.620	52.380	111.500	454.500	119.758%	52.940	62.020	53.650	119.883%	9.511
2	04:37:05	55.940	51.440	109.600	443.600	124.326%	52.690	60.710	53.240	120.618%	9.270
3	04:37:08	56.370	51.800	110.100	450.000	121.755%	53.240	63.190	53.050	121.523%	9.277
x		56.310	51.870	110.400	449.400	121.946%	52.960	61.970	53.310	120.674%	9.353
σ		0.346	0.474	0.988	5.478	2.290%	0.274	1.241	0.310	0.822%	0.137
%RSD		0.615	0.913	0.895	1.219	1.878	0.518	2.002	0.582	0.681	1.470

Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	04:37:01	51.550	-0.102	23.630	55.160	120.449%	77.040	55.810	53.690	115.434%	-0.056
2	04:37:05	51.910	-0.085	23.780	55.300	122.936%	77.660	56.100	53.680	117.052%	-0.057
3	04:37:08	52.170	-0.126	23.890	55.820	121.010%	76.960	56.250	53.030	117.310%	-0.046
x		51.880	-0.104	23.770	55.430	121.465%	77.220	56.050	53.470	116.598%	-0.053
σ		0.310	0.021	0.131	0.352	1.304%	0.385	0.223	0.378	1.017%	0.006
%RSD		0.598	19.690	0.553	0.635	1.074	0.499	0.397	0.708	0.872	11.510

Run	Time	201Hg	205Tl	208Pb	209Bi	238U
		ppb	ppb	ppb	ppb	ppb
1	04:37:01	1.488	52.050	51.670	111.697%	52.390
2	04:37:05	1.520	51.510	51.780	112.993%	52.410
3	04:37:08	1.408	52.570	52.040	111.786%	52.970
x		1.472	52.050	51.830	112.159%	52.590
σ		0.058	0.530	0.192	0.724%	0.330
%RSD		3.928	1.018	0.371	0.645	0.628

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User Pre-dilution: 1.000

Run	Time	7Li	9Be	10B	23Na	25Mg	27Al	28Si	31P	34S	35Cl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	04:44:12	45.830	47.950	94.960	T 24960.000	14010.000	2592.000	280.500	M 41130.000	1780.000	T 1983000.000
2	04:44:15	45.500	46.050	94.300	T 24140.000	13710.000	2518.000	284.000	M 40750.000	1860.000	T 1960000.000
3	04:44:19	45.090	47.580	95.340	T 24290.000	13900.000	2526.000	268.000	M 41300.000	1868.000	T 1964000.000
x		45.480	47.190	94.870	T 24460.000	13870.000	2545.000	277.500	M 41060.000	1836.000	T 1969000.000
σ		0.368	1.005	0.524	T 440.800	151.600	40.670	8.457	M 279.200	48.430	T 12370.000
%RSD		0.809	2.129	0.552	T 1.802	1.093	1.598	3.047	M 0.680	2.638	T 0.628

Run	Time	39K	43Ca	45Sc-KED	45Sc-CCT	47Ti	51V	52Cr	53Cl O	54Fe	55Mn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	04:44:12	TM 98330.000	6729.000	119.641%	123.456%	50.750	52.720	53.180	10.170	3047.000	59.300
2	04:44:15	TM 97380.000	6851.000	122.796%	124.083%	50.920	52.580	52.280	11.130	3034.000	58.870
3	04:44:19	TM 97490.000	6720.000	121.036%	124.968%	52.770	52.600	53.330	12.110	3069.000	59.230
x		TM 97730.000	6767.000	121.158%	124.169%	51.480	52.630	52.930	11.140	3050.000	59.130
σ		TM 516.100	73.250	1.581%	0.760%	1.121	0.073	0.567	0.974	17.630	0.229
%RSD		TM 0.528	1.083	1.305	0.612	2.177	0.138	1.071	8.748	0.578	0.388

Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	04:44:12	56.960	52.620	110.300	493.300	120.184%	53.640	63.040	53.670	119.733%	8.010
2	04:44:15	57.270	51.500	110.100	488.900	123.787%	52.960	61.330	54.180	122.091%	7.922
3	04:44:19	57.260	52.150	110.100	491.600	122.724%	52.880	63.830	53.870	122.626%	7.729
x		57.160	52.090	110.200	491.300	122.232%	53.160	62.730	53.910	121.483%	7.887
σ		0.175	0.563	0.123	2.226	1.851%	0.415	1.277	0.259	1.539%	0.144
%RSD		0.306	1.082	0.112	0.453	1.515	0.781	2.036	0.480	1.267	1.823

Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	04:44:12	52.590	-0.090	23.790	55.000	118.790%	76.310	56.500	53.490	115.504%	-0.068
2	04:44:15	51.900	-0.106	23.840	55.740	122.284%	76.160	56.140	54.130	116.730%	-0.070
3	04:44:19	52.010	-0.114	23.580	55.330	121.513%	76.770	56.740	54.500	T 116.210%	-0.063
x		52.170	-0.103	23.740	55.360	120.862%	76.410	56.460	54.040	T 116.148%	-0.067
σ		0.374	0.012	0.142	0.368	1.836%	0.319	0.302	0.513	T 0.615%	0.003
%RSD		0.717	11.780	0.600	0.665	1.519	0.418	0.536	0.948	T 0.530	4.927

Run	Time	201Hg	205Tl	208Pb	209Bi	238U
		ppb	ppb	ppb	ppb	ppb
1	04:44:12	1.581	52.860	52.550	108.929%	53.520
2	04:44:15	1.570	52.710	52.210	111.744%	52.690
3	04:44:19	1.508	52.900	52.480	111.759%	52.500
x		1.553	52.830	52.410	110.811%	52.900
σ		0.040	0.099	0.182	1.630%	0.538
%RSD		2.554	0.188	0.347	1.471	1.017

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User Pre-dilution: 1.000

Run	Time	7Li	9Be	10B	23Na	25Mg	27Al	28Si	31P	34S	35Cl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	04:51:21	42.800	44.870	90.770	T 24040.000	13580.000	2474.000	275.800	M 40060.000	1820.000	T 1934000.000
2	04:51:25	43.530	45.870	90.220	T 23590.000	13400.000	2459.000	273.800	M 40650.000	1784.000	T 1919000.000
3	04:51:29	44.120	45.350	92.080	T 22900.000	13100.000	2450.000	273.300	M 40140.000	1723.000	T 1879000.000
x		43.490	45.360	91.020	T 23510.000	13360.000	2461.000	274.300	M 40280.000	1776.000	T 1911000.000
σ		0.663	0.501	0.955	T 570.700	247.100	12.180	1.361	M 321.200	49.380	T 28480.000
%RSD		1.524	1.104	1.049	T 2.427	1.849	0.495	0.496	M 0.797	2.781	T 1.491

Run	Time	39K	43Ca	45Sc-KED	45Sc-CCT	47Ti	51V	52Cr	53Cl O	54Fe	55Mn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	04:51:21	TM 94150.000	5711.000	120.675%	124.761%	48.110	51.770	51.230	12.220	2974.000	56.460
2	04:51:25	TM 93840.000	5716.000	120.379%	123.404%	47.730	51.410	50.710	11.300	2970.000	56.410
3	04:51:29	TM 93060.000	5612.000	123.321%	127.712%	49.240	50.630	50.860	11.990	2959.000	56.000
x		TM 93680.000	5679.000	121.459%	125.292%	48.360	51.270	50.930	11.840	2968.000	56.290
σ		TM 564.600	58.750	1.620%	2.202%	0.784	0.586	0.267	0.479	7.401	0.253
%RSD		TM 0.603	1.034	1.334	1.758	1.621	1.142	0.525	4.048	0.249	0.450

Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	04:51:21	55.570	50.910	109.600	473.100	120.483%	52.360	62.690	51.410	122.249%	51.120
2	04:51:25	55.370	50.000	108.100	466.000	123.229%	51.420	61.070	51.270	123.440%	50.850
3	04:51:29	54.370	49.630	107.700	463.200	125.278%	51.180	62.990	50.880	124.787%	50.860
x		55.100	50.180	108.500	467.400	122.997%	51.660	62.250	51.190	123.492%	50.940
σ		0.645	0.660	1.017	5.142	2.406%	0.623	1.031	0.277	1.269%	0.150
%RSD		1.171	1.314	0.938	1.100	1.956	1.206	1.656	0.540	1.028	0.294

Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	04:51:21	48.600	-0.106	22.470	52.030	122.818%	86.660	52.790	51.240	118.160%	-0.066
2	04:51:25	48.230	-0.108	22.370	52.720	124.852%	86.010	52.500	51.310	119.168%	-0.071
3	04:51:29	49.060	-0.097	22.340	52.950	124.038%	87.080	53.670	51.710	119.610%	-0.068
x		48.630	-0.103	22.400	52.560	123.903%	86.580	52.990	51.420	118.980%	-0.068
σ		0.415	0.006	0.068	0.479	1.023%	0.540	0.611	0.255	0.743%	0.003
%RSD		0.854	5.540	0.305	0.910	0.826	0.623	1.152	0.496	0.625	3.801

Run	Time	201Hg	205Tl	208Pb	209Bi	238U
		ppb	ppb	ppb	ppb	ppb
1	04:51:21	1.502	50.080	49.660	113.220%	50.560
2	04:51:25	1.510	50.380	49.720	114.020%	50.110
3	04:51:29	1.531	50.590	50.120	114.251%	50.970
x		1.514	50.350	49.840	113.830%	50.550
σ		0.015	0.257	0.250	0.541%	0.428
%RSD		0.978	0.511	0.502	0.475	0.847

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User Pre-dilution: 1.000

Run	Time	7Li	9Be	10B	23Na	25Mg	27Al	28Si	31P	34S	35Cl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	04:58:29	-0.049	-0.057	0.717	11580.000	2959.000	8.826	23.900	M 34760.000	1817.000	T 1973000.000
2	04:58:33	-0.061	-0.070	0.236	11520.000	2944.000	6.651	22.540	M 34790.000	1779.000	T 1945000.000
3	04:58:37	-0.055	-0.057	0.729	11590.000	2988.000	6.790	24.640	M 34820.000	1820.000	T 1939000.000
x		-0.055	-0.061	0.561	11560.000	2964.000	7.422	23.690	M 34790.000	1806.000	T 1952000.000
σ		0.006	0.007	0.281	37.980	22.550	1.218	1.069	M 27.120	23.160	T 18100.000
%RSD		11.170	12.140	50.180	0.328	0.761	16.410	4.512	M 0.078	1.283	T 0.927

Run	Time	39K	43Ca	45Sc-KED	45Sc-CCT	47Ti	51V	52Cr	53Cl O	54Fe	55Mn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	04:58:29	TM 34700.000	3169.000	114.830%	117.060%	-1.016	-0.122	32.710	6.606	703.300	6.512
2	04:58:33	TM 34550.000	3309.000	116.653%	120.394%	-1.151	-0.790	32.210	9.558	703.600	6.513
3	04:58:37	TM 34690.000	3253.000	115.278%	118.431%	-1.204	-0.420	32.910	6.970	706.100	6.656
x		TM 34650.000	3244.000	115.587%	118.628%	-1.123	-0.444	32.610	7.712	704.300	6.560
σ		TM 87.050	70.530	0.950%	1.675%	0.097	0.335	0.360	1.609	1.537	0.083
%RSD		TM 0.251	2.174	0.822	1.412	8.637	75.350	1.105	20.870	0.218	1.262

Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	04:58:29	2.882	0.468	63.340	247.200	116.748%	0.187	9.247	2.155	117.417%	-0.031
2	04:58:33	2.902	0.530	62.430	245.700	116.451%	0.233	9.347	2.045	118.661%	-0.041
3	04:58:37	2.846	0.464	62.820	244.600	118.950%	0.137	9.230	2.191	117.538%	-0.031
x		2.877	0.488	62.860	245.800	117.383%	0.185	9.275	2.130	117.872%	-0.034
σ		0.028	0.037	0.453	1.286	1.365%	0.048	0.063	0.076	0.686%	0.006
%RSD		0.982	7.646	0.720	0.523	1.163	25.880	0.683	3.581	0.582	16.690

Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	04:58:29	0.998	-0.119	0.224	2.283	119.200%	34.370	0.032	1.833	116.068%	-0.055
2	04:58:33	0.940	-0.094	0.224	2.238	119.936%	34.350	0.016	1.850	117.438%	-0.061
3	04:58:37	1.002	-0.119	0.217	2.293	120.015%	34.750	0.006	1.902	117.340%	-0.058
x		0.980	-0.111	0.222	2.271	119.717%	34.490	0.018	1.862	116.948%	-0.058
σ		0.035	0.015	0.004	0.030	0.450%	0.226	0.013	0.036	0.764%	0.003
%RSD		3.578	13.250	1.833	1.299	0.376	0.655	71.270	1.925	0.653	5.708

Run	Time	201Hg	205Tl	208Pb	209Bi	238U
		ppb	ppb	ppb	ppb	ppb
1	04:58:29	0.185	0.046	-0.002	113.357%	0.007
2	04:58:33	0.136	0.035	-0.005	115.184%	0.008
3	04:58:37	0.160	0.018	-0.015	115.705%	-0.004
x		0.161	0.033	-0.008	114.749%	0.004
σ		0.025	0.014	0.007	1.233%	0.007
%RSD		15.330	41.520	92.320	1.075	193.500

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User Pre-dilution: 1.000

Run	Time	7Li	9Be	10B	23Na	25Mg	27Al	28Si	31P	34S	35Cl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	05:05:37	-0.074	-0.065	-0.083	2307.000	572.500	14.640	4.135	6795.000	444.300	T 2034000.000
2	05:05:41	-0.069	-0.061	-0.259	2348.000	593.500	16.270	0.788	6926.000	452.800	T 2019000.000
3	05:05:45	-0.079	-0.053	0.042	2338.000	602.600	17.460	0.107	6886.000	431.100	T 2003000.000
x		-0.074	-0.059	-0.100	2331.000	589.500	16.120	1.677	6869.000	442.700	T 2018000.000
σ		0.005	0.006	0.151	21.040	15.420	1.416	2.156	67.320	10.910	T 15370.000
%RSD		6.627	10.320	151.400	0.903	2.617	8.781	128.600	0.980	2.464	T 0.762

Run	Time	39K	43Ca	45Sc-KED	45Sc-CCT	47Ti	51V	52Cr	53Cl O	54Fe	55Mn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	05:05:37	6849.000	633.200	113.777%	114.639%	-0.374	-0.267	6.768	4.673	143.000	1.430
2	05:05:41	6853.000	662.600	113.690%	115.455%	-0.384	-0.217	6.681	4.566	143.400	1.510
3	05:05:45	6872.000	622.900	114.101%	117.379%	-0.021	-0.227	6.719	4.868	144.100	1.470
x		6858.000	639.500	113.856%	115.824%	-0.260	-0.237	6.723	4.702	143.500	1.470
σ		12.380	20.600	0.217%	1.407%	0.207	0.026	0.044	0.153	0.563	0.040
%RSD		0.181	3.222	0.191	1.215	79.520	11.030	0.650	3.256	0.393	2.736

Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	05:05:37	0.499	0.065	12.590	48.840	114.141%	-0.017	1.944	0.387	114.440%	-0.074
2	05:05:41	0.515	0.084	12.690	49.240	115.388%	-0.039	1.809	0.380	115.163%	-0.081
3	05:05:45	0.516	0.050	12.700	48.100	117.149%	-0.070	1.674	0.408	115.465%	-0.070
x		0.510	0.066	12.660	48.730	115.559%	-0.042	1.809	0.392	115.023%	-0.075
σ		0.010	0.017	0.062	0.577	1.511%	0.026	0.135	0.014	0.527%	0.006
%RSD		1.892	25.490	0.486	1.183	1.308	62.830	7.468	3.679	0.458	7.420

Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	05:05:37	0.131	-0.123	0.005	0.398	113.663%	7.089	-0.055	0.304	T 113.187%	-0.047
2	05:05:41	0.119	-0.124	0.007	0.333	115.387%	7.043	-0.047	0.243	110.885%	-0.048
3	05:05:45	0.152	-0.091	0.004	0.419	116.609%	6.807	-0.061	0.266	T 114.142%	-0.046
x		0.134	-0.113	0.005	0.383	115.220%	6.980	-0.055	0.271	T 112.738%	-0.047
σ		0.017	0.019	0.002	0.045	1.480%	0.152	0.007	0.031	T 1.674%	0.001
%RSD		12.570	16.780	35.090	11.650	1.285	2.170	12.730	11.410	T 1.485	2.249

Run	Time	201Hg	205Tl	208Pb	209Bi	238U
		ppb	ppb	ppb	ppb	ppb
1	05:05:37	0.047	-0.055	-0.063	110.040%	-0.059
2	05:05:41	0.027	-0.058	-0.062	112.269%	-0.060
3	05:05:45	0.034	-0.058	-0.062	112.220%	-0.059
x		0.036	-0.057	-0.062	111.510%	-0.059
σ		0.010	0.001	0.000	1.273%	0.000
%RSD		28.330	2.449	0.129	1.141	0.163

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User Pre-dilution: 1.000

Run	Time	7Li	9Be	10B	23Na	25Mg	27Al	28Si	31P	34S	35Cl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	05:12:48	92.360	96.060	94.750	5066.000	5130.000	4935.000	5043.000	5321.000	92.410	T 2240000.000
2	05:12:51	90.390	92.890	91.390	5046.000	5057.000	4929.000	5084.000	5280.000	92.230	T 2236000.000
3	05:12:55	90.340	93.290	97.410	5095.000	5089.000	4957.000	5080.000	5281.000	82.730	T 2212000.000
x		91.030	94.080	94.520	5069.000	5092.000	4941.000	5069.000	5294.000	89.120	T 2229000.000
σ		1.152	1.725	3.019	24.590	36.440	14.590	22.330	23.410	5.534	T 15530.000
%RSD		1.265	1.834	3.194	0.485	0.716	0.295	0.441	0.442	6.210	T 0.697

Run	Time	39K	43Ca	45Sc-KED	45Sc-CCT	47Ti	51V	52Cr	53Cl O	54Fe	55Mn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	05:12:48	4987.000	5364.000	114.214%	118.720%	103.200	102.600	102.200	14.050	4938.000	98.760
2	05:12:51	5033.000	4988.000	115.097%	117.413%	98.920	102.900	101.700	16.020	5024.000	100.300
3	05:12:55	5026.000	5270.000	115.629%	118.008%	102.400	100.500	101.700	18.580	5002.000	99.590
x		5015.000	5207.000	114.980%	118.047%	101.500	102.000	101.900	16.220	4988.000	99.540
σ		24.510	195.600	0.715%	0.654%	2.277	1.302	0.267	2.274	44.830	0.758
%RSD		0.489	3.756	0.621	0.554	2.243	1.276	0.262	14.020	0.899	0.761

Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	05:12:48	101.600	101.800	102.700	101.500	114.601%	102.400	99.890	99.520	113.361%	101.300
2	05:12:51	102.200	103.700	103.500	102.600	116.143%	103.700	100.200	99.080	115.702%	100.800
3	05:12:55	101.500	102.900	102.200	101.100	117.404%	102.900	100.800	99.610	115.793%	101.100
x		101.800	102.800	102.800	101.700	116.049%	103.000	100.300	99.400	114.952%	101.100
σ		0.355	0.940	0.663	0.774	1.404%	0.626	0.469	0.286	1.379%	0.257
%RSD		0.349	0.915	0.645	0.761	1.210	0.608	0.467	0.288	1.200	0.255

Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	05:12:48	102.200	103.400	52.010	102.900	115.303%	102.200	103.500	101.300	110.906%	102.800
2	05:12:51	101.300	103.000	51.990	103.400	117.220%	102.700	103.400	101.400	T 112.374%	103.000
3	05:12:55	101.500	103.300	51.600	102.600	117.625%	102.500	103.100	101.500	113.870%	102.600
x		101.700	103.200	51.870	103.000	116.716%	102.400	103.400	101.400	T 112.383%	102.800
σ		0.476	0.237	0.232	0.409	1.240%	0.261	0.194	0.113	T 1.482%	0.216
%RSD		0.469	0.230	0.447	0.397	1.063	0.254	0.188	0.112	T 1.319	0.210

Run	Time	201Hg	205Tl	208Pb	209Bi	238U
		ppb	ppb	ppb	ppb	ppb
1	05:12:48	5.453	104.000	101.800	109.331%	T 100.400
2	05:12:51	5.213	105.300	102.800	111.081%	T 98.470
3	05:12:55	5.117	103.500	102.600	111.395%	T 98.030
x		5.261	104.300	102.400	110.602%	T 98.960
σ		0.173	0.919	0.522	1.112%	T 1.256
%RSD		3.291	0.881	0.510	1.005	T 1.269

233902_10003_CCBTVA3 8/31/2019 5:19:52 AM

User Pre-dilution: 1.000

Run	Time	7Li	9Be	10B	23Na	25Mg	27Al	28Si	31P	34S	35Cl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	05:19:56	-0.024	-0.036	-0.257	9.035	4.571	7.152	-0.388	5.942	93.640	T2122000.000
2	05:20:00	-0.045	-0.032	-0.039	7.027	6.094	6.637	-1.917	1.966	87.740	T2099000.000
3	05:20:03	-0.049	-0.033	-0.167	6.024	1.098	5.282	-2.922	-7.358	83.460	T2078000.000
x		-0.039	-0.033	-0.154	7.362	3.921	6.357	-1.742	0.183	88.280	T2100000.000
σ		0.014	0.002	0.110	1.533	2.561	0.966	1.276	6.827	5.114	T21850.000
%RSD		34.320	6.264	71.080	20.830	65.300	15.200	73.220	3723.000	5.793	T1.041

Run	Time	39K	43Ca	45Sc-KED	45Sc-CCT	47Ti	51V	52Cr	53Cl O	54Fe	55Mn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	05:19:56	24.590	19.090	114.025%	116.947%	0.053	0.114	0.129	3.505	6.780	0.094
2	05:20:00	16.850	-9.440	116.063%	117.352%	0.050	0.061	0.079	3.696	5.535	0.069
3	05:20:03	14.980	7.032	116.109%	119.480%	0.122	-0.050	0.074	3.858	4.525	0.065
x		18.810	5.562	115.399%	117.926%	0.075	0.042	0.094	3.686	5.613	0.076
σ		5.098	14.320	1.191%	1.361%	0.041	0.084	0.030	0.177	1.130	0.016
%RSD		27.110	257.500	1.032	1.154	54.460	201.500	31.790	4.800	20.130	20.910

Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	05:19:56	0.074	0.071	0.126	-0.679	117.078%	0.109	0.116	0.077	114.526%	0.072
2	05:20:00	0.053	0.042	0.072	-0.649	117.424%	0.099	0.055	0.050	117.289%	0.035
3	05:20:03	0.025	0.012	0.062	-0.602	118.386%	0.029	0.110	0.022	115.979%	0.005
x		0.050	0.041	0.087	-0.643	117.630%	0.079	0.093	0.050	115.931%	0.038
σ		0.025	0.029	0.034	0.039	0.678%	0.044	0.034	0.028	1.382%	0.033
%RSD		48.800	70.410	39.300	6.043	0.576	55.280	35.920	55.650	1.192	88.990

Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	05:19:56	0.195	0.074	0.044	0.094	113.504%	0.078	0.075	-0.009	T113.773%	0.086
2	05:20:00	0.128	0.029	0.027	0.026	115.200%	0.063	0.064	-0.012	110.881%	0.058
3	05:20:03	0.144	0.001	0.021	0.016	116.189%	0.030	0.038	-0.053	112.682%	0.026
x		0.156	0.035	0.031	0.045	114.964%	0.057	0.059	-0.025	T112.445%	0.057
σ		0.035	0.037	0.012	0.043	1.358%	0.024	0.019	0.024	T1.460%	0.030
%RSD		22.450	105.500	39.210	93.750	1.181	42.490	31.550	98.710	T1.299	52.560

Run	Time	201Hg	205Tl	208Pb	209Bi	238U
		ppb	ppb	ppb	ppb	ppb
1	05:19:56	0.043	0.126	0.081	107.050%	0.076
2	05:20:00	0.019	0.093	0.048	108.319%	0.048
3	05:20:03	0.022	0.057	0.023	109.163%	0.027
x		0.028	0.092	0.051	108.177%	0.050
σ		0.013	0.035	0.029	1.063%	0.025
%RSD		45.240	37.720	57.610	0.983	49.240

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User Pre-dilution: 1.000

Run	Time	7Li	9Be	10B	23Na	25Mg	27Al	28Si	31P	34S	35Cl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	05:27:05	-0.032	-0.032	0.190	12560.000	3144.000	13.550	32.050	M 37040.000	1940.000	T 1969000.000
2	05:27:08	-0.051	-0.053	0.027	12410.000	3174.000	12.840	25.020	M 36960.000	1887.000	T 1959000.000
3	05:27:12	-0.043	-0.054	0.338	12570.000	3110.000	12.540	29.470	M 37620.000	1946.000	T 1949000.000
x		-0.042	-0.046	0.185	12520.000	3143.000	12.980	28.850	M 37210.000	1924.000	T 1959000.000
σ		0.010	0.013	0.155	89.970	31.960	0.517	3.556	M 363.700	32.470	T 9874.000
%RSD		23.680	27.460	83.940	0.719	1.017	3.985	12.330	M 0.977	1.688	T 0.504

Run	Time	39K	43Ca	45Sc-KED	45Sc-CCT	47Ti	51V	52Cr	53Cl O	54Fe	55Mn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	05:27:05	TM 37550.000	2323.000	117.617%	116.984%	-1.576	0.075	2.678	4.290	528.500	5.989
2	05:27:08	TM 37830.000	2591.000	118.226%	119.787%	-1.610	0.253	2.779	3.409	535.400	6.117
3	05:27:12	TM 37470.000	2437.000	118.602%	121.378%	-1.073	0.157	2.734	3.793	530.100	5.982
x		TM 37620.000	2451.000	118.148%	119.383%	-1.420	0.162	2.730	3.831	531.400	6.030
σ		TM 189.800	134.600	0.497%	2.225%	0.301	0.089	0.051	0.442	3.627	0.076
%RSD		TM 0.504	5.493	0.421	1.863	21.170	55.210	1.860	11.520	0.683	1.262

Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	05:27:05	3.091	0.244	68.070	257.000	118.183%	0.133	6.554	2.293	118.266%	-0.018
2	05:27:08	3.179	0.189	68.560	258.100	119.789%	0.091	6.469	2.364	119.190%	-0.031
3	05:27:12	3.014	0.228	68.060	256.400	119.999%	0.111	6.691	2.294	119.879%	-0.063
x		3.095	0.220	68.230	257.200	119.323%	0.112	6.571	2.317	119.111%	-0.037
σ		0.083	0.028	0.285	0.821	0.994%	0.021	0.112	0.041	0.809%	0.023
%RSD		2.671	12.690	0.418	0.319	0.833	18.720	1.699	1.757	0.679	61.110

Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	05:27:05	0.924	-0.100	0.261	2.575	118.927%	34.400	0.004	1.581	115.364%	-0.034
2	05:27:08	0.942	-0.094	0.225	2.693	120.856%	34.030	-0.001	1.670	116.743%	-0.043
3	05:27:12	0.980	-0.122	0.236	2.563	120.331%	34.770	-0.009	1.587	114.888%	-0.046
x		0.949	-0.105	0.241	2.610	120.038%	34.400	-0.002	1.613	115.665%	-0.041
σ		0.029	0.015	0.018	0.072	0.997%	0.369	0.007	0.050	0.964%	0.006
%RSD		3.052	14.270	7.506	2.741	0.831	1.073	306.300	3.084	0.833	15.380

Run	Time	201Hg	205Tl	208Pb	209Bi	238U
		ppb	ppb	ppb	ppb	ppb
1	05:27:05	0.140	0.001	-0.025	112.247%	-0.016
2	05:27:08	0.103	-0.004	-0.040	114.307%	-0.020
3	05:27:12	0.190	-0.020	-0.040	114.513%	-0.032
x		0.145	-0.008	-0.035	113.689%	-0.022
σ		0.044	0.011	0.009	1.253%	0.008
%RSD		30.110	141.000	24.800	1.102	37.640

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User Pre-dilution: 1.000

Run	Time	7Li	9Be	10B	23Na	25Mg	27Al	28Si	31P	34S	35Cl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	05:34:12	-0.073	-0.082	-0.078	T 13950.000	3305.000	7.626	26.250	M 38680.000	2050.000	T 1997000.000
2	05:34:15	-0.059	-0.082	0.174	T 14110.000	3336.000	10.070	28.360	M 39100.000	2017.000	T 1979000.000
3	05:34:19	-0.060	-0.074	0.341	T 14140.000	3360.000	10.230	27.090	M 38870.000	2007.000	T 1978000.000
x		-0.064	-0.079	0.146	T 14070.000	3334.000	9.308	27.230	M 38890.000	2025.000	T 1985000.000
σ		0.008	0.005	0.211	T 102.400	27.680	1.458	1.060	M 208.900	22.240	T 10820.000
%RSD		12.650	6.117	144.700	T 0.728	0.830	15.670	3.893	M 0.537	1.098	T 0.545

Run	Time	39K	43Ca	45Sc-KED	45Sc-CCT	47Ti	51V	52Cr	53Cl O	54Fe	55Mn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	05:34:12	TM 39500.000	3379.000	116.302%	118.734%	-1.293	0.229	1.361	3.549	535.800	6.898
2	05:34:15	TM 39670.000	3327.000	117.244%	119.299%	-1.196	0.364	1.415	3.185	534.500	7.097
3	05:34:19	TM 39830.000	3213.000	117.437%	117.668%	-1.148	0.039	1.320	4.381	537.600	6.978
x		TM 39660.000	3306.000	116.994%	118.567%	-1.213	0.211	1.365	3.705	535.900	6.991
σ		TM 167.100	84.820	0.607%	0.828%	0.074	0.163	0.048	0.613	1.548	0.100
%RSD		TM 0.421	2.565	0.519	0.699	6.097	77.460	3.486	16.550	0.289	1.434

Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	05:34:12	4.683	0.173	69.560	287.800	115.974%	0.097	8.268	2.477	117.481%	-0.051
2	05:34:15	4.628	0.186	68.970	284.900	119.337%	0.146	7.868	2.453	117.941%	-0.043
3	05:34:19	4.628	0.206	69.870	287.700	117.484%	0.158	7.943	2.544	119.514%	-0.066
x		4.646	0.188	69.470	286.800	117.598%	0.134	8.026	2.492	118.312%	-0.053
σ		0.032	0.017	0.458	1.681	1.685%	0.032	0.213	0.047	1.066%	0.012
%RSD		0.687	8.950	0.659	0.586	1.432	23.870	2.649	1.891	0.901	21.820

Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	05:34:12	0.987	-0.107	0.205	2.928	116.716%	35.420	-0.021	1.813	113.827%	-0.064
2	05:34:15	1.037	-0.092	0.213	3.063	118.038%	35.430	-0.033	1.889	114.000%	-0.062
3	05:34:19	1.111	-0.119	0.200	2.996	118.857%	35.330	-0.017	1.980	114.011%	-0.056
x		1.045	-0.106	0.206	2.996	117.871%	35.390	-0.024	1.894	113.946%	-0.061
σ		0.062	0.013	0.007	0.067	1.080%	0.056	0.008	0.084	0.103%	0.004
%RSD		5.930	12.520	3.184	2.240	0.917	0.158	34.690	4.435	0.091	6.517

Run	Time	201Hg	205Tl	208Pb	209Bi	238U
		ppb	ppb	ppb	ppb	ppb
1	05:34:12	0.155	-0.033	-0.026	110.964%	-0.025
2	05:34:15	0.166	-0.036	-0.025	111.958%	-0.030
3	05:34:19	0.182	-0.031	-0.031	112.036%	-0.024
x		0.168	-0.033	-0.027	111.652%	-0.026
σ		0.013	0.002	0.003	0.598%	0.003
%RSD		8.054	6.929	10.690	0.535	13.090

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User Pre-dilution: 1.000

Run	Time	7Li	9Be	10B	23Na	25Mg	27Al	28Si	31P	34S	35Cl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	05:41:20	-0.064	-0.082	0.318	T 14130.000	3185.000	14.060	32.650	M 37280.000	1913.000	T 1978000.000
2	05:41:23	-0.070	-0.066	0.055	T 14300.000	3272.000	14.610	41.600	M 37940.000	1904.000	T 1977000.000
3	05:41:27	-0.066	-0.066	0.403	T 14090.000	3218.000	12.480	38.870	M 37900.000	1922.000	T 1950000.000
x		-0.067	-0.071	0.259	T 14170.000	3225.000	13.720	37.710	M 37710.000	1913.000	T 1968000.000
σ		0.003	0.009	0.182	T 114.900	43.740	1.104	4.585	M 371.400	8.876	T 15970.000
%RSD		4.881	13.090	70.120	T 0.811	1.356	8.052	12.160	M 0.985	0.464	T 0.811

Run	Time	39K	43Ca	45Sc-KED	45Sc-CCT	47Ti	51V	52Cr	53Cl O	54Fe	55Mn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	05:41:20	TM 39130.000	3163.000	117.584%	117.802%	-0.928	0.348	1.227	3.608	467.500	9.482
2	05:41:23	TM 38870.000	3203.000	117.819%	121.979%	-0.979	0.331	1.304	3.698	478.500	9.591
3	05:41:27	TM 38610.000	3107.000	118.178%	119.855%	-1.053	0.324	1.284	3.897	469.600	9.541
x		TM 38870.000	3158.000	117.860%	119.879%	-0.987	0.334	1.271	3.734	471.800	9.538
σ		TM 257.500	48.660	0.299%	2.089%	0.063	0.013	0.040	0.148	5.844	0.054
%RSD		TM 0.662	1.541	0.254	1.742	6.361	3.762	3.144	3.959	1.239	0.571

Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	05:41:20	4.877	0.177	64.070	278.700	116.269%	0.197	8.473	2.488	115.411%	-0.059
2	05:41:23	4.826	0.170	63.720	277.400	120.547%	0.174	8.683	2.488	118.012%	-0.067
3	05:41:27	4.841	0.201	64.250	279.000	118.303%	0.196	8.192	2.516	116.582%	-0.077
x		4.848	0.183	64.010	278.400	118.373%	0.189	8.449	2.497	116.668%	-0.067
σ		0.026	0.017	0.272	0.871	2.140%	0.013	0.246	0.016	1.303%	0.009
%RSD		0.534	9.052	0.425	0.313	1.808	6.967	2.913	0.652	1.117	13.360

Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	05:41:20	1.131	-0.102	0.218	2.755	115.620%	34.350	-0.033	1.788	110.641%	-0.066
2	05:41:23	1.128	-0.125	0.210	2.693	116.828%	34.440	-0.028	1.877	T 116.442%	-0.065
3	05:41:27	1.022	-0.113	0.188	2.675	115.761%	34.730	-0.025	1.921	112.190%	-0.070
x		1.094	-0.113	0.205	2.708	116.070%	34.510	-0.029	1.862	T 113.091%	-0.067
σ		0.062	0.011	0.016	0.042	0.660%	0.201	0.004	0.068	T 3.004%	0.003
%RSD		5.680	9.968	7.578	1.545	0.569	0.582	13.990	3.643	T 2.656	4.379

Run	Time	201Hg	205Tl	208Pb	209Bi	238U
		ppb	ppb	ppb	ppb	ppb
1	05:41:20	0.233	-0.029	-0.032	107.457%	-0.030
2	05:41:23	0.174	-0.034	-0.031	110.513%	-0.029
3	05:41:27	0.227	-0.037	-0.038	110.039%	-0.030
x		0.211	-0.033	-0.034	109.336%	-0.030
σ		0.033	0.004	0.004	1.645%	0.001
%RSD		15.380	11.820	10.750	1.504	1.739

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User Pre-dilution: 1.000

Run	Time	7Li	9Be	10B	23Na	25Mg	27Al	28Si	31P	34S	35Cl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	05:48:28	-0.057	-0.078	-0.008	T 16340.000	6751.000	7.171	21.920	M 45320.000	2137.000	T 2052000.000
2	05:48:32	-0.052	-0.074	0.062	T 16160.000	6709.000	5.758	21.680	M 45240.000	2120.000	T 2008000.000
3	05:48:36	-0.070	-0.082	0.137	T 16210.000	6721.000	7.295	23.870	M 45720.000	2173.000	T 2002000.000
x		-0.060	-0.078	0.064	T 16230.000	6727.000	6.741	22.490	M 45430.000	2143.000	T 2021000.000
σ		0.009	0.004	0.072	T 94.690	21.680	0.854	1.200	M 257.400	26.970	T 27270.000
%RSD		15.760	5.188	113.900	T 0.583	0.322	12.670	5.334	M 0.567	1.259	T 1.349

Run	Time	39K	43Ca	45Sc-KED	45Sc-CCT	47Ti	51V	52Cr	53Cl O	54Fe	55Mn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	05:48:28	TM 37740.000	5215.000	119.254%	119.486%	-1.584	0.290	1.355	4.052	378.300	14.300
2	05:48:32	TM 37410.000	5203.000	120.798%	121.467%	-1.229	0.382	1.354	3.796	375.400	14.060
3	05:48:36	TM 37420.000	4904.000	121.663%	121.731%	-1.416	0.269	1.327	3.936	373.100	14.090
x		TM 37520.000	5107.000	120.571%	120.894%	-1.410	0.313	1.346	3.928	375.600	14.150
σ		TM 184.300	176.300	1.220%	1.227%	0.178	0.060	0.016	0.128	2.641	0.129
%RSD		TM 0.491	3.451	1.012	1.015	12.620	19.150	1.162	3.264	0.703	0.909

Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	05:48:28	6.049	0.198	45.560	M 750.700	121.167%	0.226	9.371	1.407	119.542%	-0.058
2	05:48:32	6.258	0.184	45.670	M 761.200	121.595%	0.174	9.400	1.411	120.185%	-0.057
3	05:48:36	6.261	0.174	45.790	M 757.300	122.791%	0.278	8.660	1.372	122.426%	-0.067
x		6.189	0.185	45.670	M 756.400	121.851%	0.226	9.144	1.397	120.718%	-0.060
σ		0.121	0.012	0.114	M 5.328	0.842%	0.052	0.419	0.021	1.514%	0.006
%RSD		1.959	6.480	0.250	M 0.705	0.691	22.860	4.583	1.529	1.254	9.299

Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	05:48:28	1.169	-0.099	0.155	2.166	117.873%	37.840	-0.009	0.787	114.965%	-0.080
2	05:48:32	1.227	-0.098	0.171	2.082	120.335%	38.000	-0.027	0.788	116.105%	-0.075
3	05:48:36	1.244	-0.083	0.158	2.114	121.630%	38.360	-0.023	0.769	T 120.560%	-0.071
x		1.213	-0.093	0.161	2.121	119.946%	38.070	-0.020	0.781	T 117.210%	-0.075
σ		0.040	0.009	0.008	0.043	1.908%	0.263	0.010	0.011	T 2.957%	0.005
%RSD		3.270	9.913	5.166	2.006	1.591	0.692	49.430	1.381	T 2.523	6.256

Run	Time	201Hg	205Tl	208Pb	209Bi	238U
		ppb	ppb	ppb	ppb	ppb
1	05:48:28	0.174	-0.049	-0.053	110.537%	-0.014
2	05:48:32	0.155	-0.051	-0.057	112.423%	-0.015
3	05:48:36	0.205	-0.050	-0.056	113.504%	-0.013
x		0.178	-0.050	-0.055	112.155%	-0.014
σ		0.025	0.001	0.002	1.502%	0.001
%RSD		14.170	1.450	3.143	1.339	7.736

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User Pre-dilution: 1.000

Run	Time	7Li	9Be	10B	23Na	25Mg	27Al	28Si	31P	34S	35Cl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	05:55:38	-0.047	-0.082	0.117	T 17630.000	8213.000	7.540	25.640	M 51970.000	2362.000	T 2040000.000
2	05:55:42	-0.067	-0.078	-0.062	T 17230.000	8066.000	7.659	26.610	M 51280.000	2294.000	T 2011000.000
3	05:55:46	-0.053	-0.078	-0.063	T 17020.000	8098.000	10.450	22.830	M 51640.000	2416.000	T 2033000.000
x		-0.055	-0.080	-0.003	T 17290.000	8126.000	8.551	25.030	M 51630.000	2357.000	T 2028000.000
σ		0.010	0.002	0.103	T 310.200	77.430	1.648	1.964	M 342.600	60.710	T 14880.000
%RSD		18.030	2.915	4007.000	T 1.794	0.953	19.270	7.846	M 0.664	2.575	T 0.734

Run	Time	39K	43Ca	45Sc-KED	45Sc-CCT	47Ti	51V	52Cr	53Cl O	54Fe	55Mn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	05:55:38	TM 38210.000	7321.000	117.892%	123.085%	-1.215	0.529	1.804	4.303	345.500	16.850
2	05:55:42	TM 37740.000	7194.000	120.947%	121.986%	-1.169	0.564	1.754	4.107	342.600	16.610
3	05:55:46	TM 38130.000	7184.000	121.352%	123.499%	-1.882	0.557	1.748	4.206	337.000	16.710
x		TM 38030.000	7233.000	120.064%	122.857%	-1.422	0.550	1.769	4.205	341.700	16.720
σ		TM 248.700	76.410	1.892%	0.782%	0.399	0.018	0.031	0.098	4.331	0.125
%RSD		TM 0.654	1.056	1.576	0.637	28.090	3.310	1.731	2.323	1.267	0.746

Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	05:55:38	6.270	0.229	43.780	M 920.000	122.491%	0.220	12.030	1.835	120.512%	-0.060
2	05:55:42	6.384	0.187	44.180	M 931.500	121.458%	0.323	11.520	1.808	122.624%	-0.067
3	05:55:46	6.320	0.188	44.020	M 927.000	123.250%	0.229	12.350	1.904	123.336%	-0.068
x		6.324	0.202	43.990	M 926.200	122.400%	0.257	11.960	1.849	122.158%	-0.065
σ		0.057	0.024	0.206	M 5.795	0.900%	0.057	0.419	0.050	1.468%	0.004
%RSD		0.905	11.810	0.468	M 0.626	0.735	22.040	3.500	2.685	1.202	6.902

Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	05:55:38	1.328	-0.119	0.137	2.315	120.751%	37.480	0.001	1.104	T 116.096%	-0.061
2	05:55:42	1.304	-0.091	0.147	2.458	121.642%	38.070	-0.008	1.188	117.468%	-0.063
3	05:55:46	1.386	-0.107	0.163	2.375	122.323%	37.680	-0.011	1.298	118.125%	-0.059
x		1.339	-0.106	0.149	2.383	121.572%	37.740	-0.006	1.197	T 117.230%	-0.061
σ		0.042	0.014	0.013	0.072	0.788%	0.298	0.006	0.098	T 1.036%	0.002
%RSD		3.154	13.310	8.812	3.014	0.648	0.790	103.200	8.150	T 0.883	3.687

Run	Time	201Hg	205Tl	208Pb	209Bi	238U
		ppb	ppb	ppb	ppb	ppb
1	05:55:38	0.194	-0.039	-0.039	112.016%	0.003
2	05:55:42	0.216	-0.043	-0.037	114.991%	-0.003
3	05:55:46	0.195	-0.041	-0.034	114.420%	0.008
x		0.202	-0.041	-0.037	113.809%	0.003
σ		0.012	0.002	0.002	1.579%	0.005
%RSD		6.197	5.199	6.429	1.387	194.400

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User Pre-dilution: 1.000

Run	Time	7Li	9Be	10B	23Na	25Mg	27Al	28Si	31P	34S	35Cl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	06:02:48	-0.061	-0.086	-0.161	T 16680.000	7426.000	11.650	29.080	M 49760.000	2302.000	T 1990000.000
2	06:02:52	-0.074	-0.074	0.008	T 16710.000	7465.000	12.410	27.420	M 50640.000	2424.000	T 1988000.000
3	06:02:56	-0.079	-0.074	-0.062	T 16750.000	7460.000	12.460	28.770	M 51190.000	2374.000	T 1990000.000
x		-0.072	-0.078	-0.071	T 16720.000	7450.000	12.170	28.420	M 50530.000	2367.000	T 1989000.000
σ		0.009	0.007	0.085	T 34.030	21.520	0.454	0.881	M 721.200	61.140	T 1235.000
%RSD		13.150	8.734	118.400	T 0.204	0.289	3.728	3.100	M 1.427	2.584	T 0.062

Run	Time	39K	43Ca	45Sc-KED	45Sc-CCT	47Ti	51V	52Cr	53Cl O	54Fe	55Mn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	06:02:48	TM 40600.000	5318.000	120.058%	122.075%	-1.758	0.156	1.205	4.050	433.100	12.770
2	06:02:52	TM 40250.000	4998.000	121.094%	123.991%	-1.090	0.081	1.169	4.673	441.100	12.900
3	06:02:56	TM 40560.000	5282.000	121.318%	124.894%	-2.121	0.278	1.263	3.526	436.600	12.590
x		TM 40470.000	5199.000	120.823%	123.653%	-1.657	0.171	1.212	4.083	436.900	12.750
σ		TM 192.000	175.100	0.672%	1.440%	0.523	0.099	0.048	0.574	4.010	0.154
%RSD		TM 0.474	3.367	0.556	1.164	31.570	57.870	3.919	14.060	0.918	1.205

Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	06:02:48	4.507	0.212	53.820	M 813.000	119.336%	0.296	8.480	1.323	120.556%	-0.046
2	06:02:52	4.630	0.163	53.940	M 811.100	122.271%	0.221	7.525	1.236	122.115%	-0.061
3	06:02:56	4.571	0.176	52.910	M 814.000	121.961%	0.191	8.273	1.278	122.442%	-0.058
x		4.570	0.183	53.560	M 812.700	121.190%	0.236	8.092	1.279	121.704%	-0.055
σ		0.062	0.026	0.559	M 1.444	1.612%	0.054	0.502	0.043	1.008%	0.008
%RSD		1.349	14.030	1.044	M 0.178	1.331	22.830	6.208	3.398	0.828	14.320

Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	06:02:48	1.153	-0.103	0.200	2.696	119.940%	37.580	-0.023	0.961	114.847%	-0.064
2	06:02:52	1.128	-0.121	0.180	2.556	122.256%	37.380	-0.025	0.991	T 115.073%	-0.071
3	06:02:56	1.176	-0.117	0.176	2.669	121.628%	37.400	-0.015	0.997	T 116.439%	-0.066
x		1.153	-0.114	0.185	2.640	121.275%	37.450	-0.021	0.983	T 115.453%	-0.067
σ		0.024	0.010	0.013	0.074	1.198%	0.114	0.005	0.019	T 0.862%	0.004
%RSD		2.059	8.560	7.185	2.813	0.988	0.303	24.330	1.952	T 0.746	5.268

Run	Time	201Hg	205Tl	208Pb	209Bi	238U
		ppb	ppb	ppb	ppb	ppb
1	06:02:48	0.111	-0.062	-0.055	112.924%	-0.011
2	06:02:52	0.156	-0.057	-0.057	114.711%	-0.015
3	06:02:56	0.167	-0.058	-0.053	115.025%	-0.013
x		0.145	-0.059	-0.055	114.220%	-0.013
σ		0.030	0.002	0.002	1.134%	0.002
%RSD		20.450	4.030	3.316	0.992	17.000

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User Pre-dilution: 1.000

Run	Time	7Li	9Be	10B	23Na	25Mg	27Al	28Si	31P	34S	35Cl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	06:09:58	-0.056	-0.074	-0.292	T 16270.000	7258.000	9.586	20.500	M 47640.000	2283.000	T 1976000.000
2	06:10:02	-0.055	-0.067	-0.183	T 16490.000	7357.000	9.028	23.560	M 48250.000	2343.000	T 1999000.000
3	06:10:06	-0.053	-0.074	-0.094	T 16160.000	7270.000	8.582	20.580	M 47580.000	2335.000	T 1962000.000
x		-0.055	-0.072	-0.189	T 16310.000	7295.000	9.065	21.550	M 47820.000	2320.000	T 1979000.000
σ		0.002	0.004	0.099	T 168.000	54.050	0.503	1.749	M 372.300	32.460	T 18510.000
%RSD		2.966	6.183	52.280	T 1.030	0.741	5.553	8.116	M 0.779	1.399	T 0.935

Run	Time	39K	43Ca	45Sc-KED	45Sc-CCT	47Ti	51V	52Cr	53Cl O	54Fe	55Mn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	06:09:58	TM 38310.000	4626.000	122.649%	123.337%	-1.073	0.350	1.542	4.051	366.700	15.190
2	06:10:02	TM 38820.000	4651.000	122.252%	125.469%	-1.683	0.309	1.500	4.654	378.100	15.360
3	06:10:06	TM 38180.000	4739.000	124.442%	124.449%	-1.470	0.336	1.485	3.992	371.300	15.120
x		TM 38440.000	4672.000	123.114%	124.418%	-1.408	0.332	1.509	4.233	372.000	15.220
σ		TM 336.900	59.330	1.167%	1.066%	0.309	0.021	0.029	0.366	5.724	0.125
%RSD		TM 0.877	1.270	0.948	0.857	21.960	6.222	1.944	8.657	1.539	0.823

Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	06:09:58	6.263	0.164	49.620	M 817.700	121.789%	0.214	8.502	1.193	121.145%	-0.054
2	06:10:02	6.317	0.157	50.200	M 824.900	122.291%	0.144	9.113	1.278	123.753%	-0.039
3	06:10:06	6.160	0.153	49.460	M 813.000	124.806%	0.179	9.246	1.241	123.734%	-0.061
x		6.247	0.158	49.760	M 818.500	122.962%	0.179	8.954	1.237	122.877%	-0.051
σ		0.079	0.006	0.390	M 5.995	1.617%	0.035	0.397	0.043	1.500%	0.011
%RSD		1.270	3.526	0.784	M 0.732	1.315	19.410	4.433	3.455	1.221	22.190

Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	06:09:58	1.036	-0.118	0.163	2.829	118.784%	38.060	-0.030	0.985	114.162%	-0.056
2	06:10:02	1.095	-0.112	0.150	2.815	121.355%	38.130	-0.020	0.917	T 120.280%	-0.064
3	06:10:06	1.168	-0.083	0.154	2.723	120.712%	38.210	-0.024	1.059	117.565%	-0.068
x		1.100	-0.104	0.156	2.789	120.284%	38.130	-0.025	0.987	T 117.336%	-0.063
σ		0.066	0.019	0.006	0.058	1.338%	0.080	0.005	0.071	T 3.065%	0.006
%RSD		6.042	17.950	4.036	2.068	1.112	0.209	21.450	7.227	T 2.612	9.237

Run	Time	201Hg	205Tl	208Pb	209Bi	238U
		ppb	ppb	ppb	ppb	ppb
1	06:09:58	0.164	-0.048	-0.021	110.851%	-0.010
2	06:10:02	0.147	-0.050	-0.021	113.028%	-0.012
3	06:10:06	0.161	-0.047	-0.022	112.712%	-0.011
x		0.157	-0.048	-0.021	112.197%	-0.011
σ		0.009	0.002	0.001	1.177%	0.001
%RSD		5.713	3.513	3.494	1.049	9.905

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User Pre-dilution: 1.000

Run	Time	7Li	9Be	10B	23Na	25Mg	27Al	28Si	31P	34S	35Cl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	06:17:09	-0.057	-0.066	-0.035	T 16800.000	7997.000	20.540	28.690	M 51310.000	2454.000	T 1951000.000
2	06:17:13	-0.054	-0.082	-0.061	T 16640.000	8007.000	20.160	32.510	M 52310.000	2532.000	T 1932000.000
3	06:17:17	-0.057	-0.074	0.133	T 16690.000	7913.000	21.120	34.380	M 51720.000	2492.000	T 1901000.000
x		-0.056	-0.074	0.012	T 16710.000	7972.000	20.610	31.860	M 51780.000	2493.000	T 1928000.000
σ		0.002	0.008	0.105	T 80.280	51.220	0.480	2.900	M 501.900	39.030	T 25050.000
%RSD		3.738	11.010	849.600	T 0.481	0.642	2.330	9.104	M 0.969	1.566	T 1.299

Run	Time	39K	43Ca	45Sc-KED	45Sc-CCT	47Ti	51V	52Cr	53Cl O	54Fe	55Mn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	06:17:09	TM 40500.000	6359.000	121.030%	121.442%	-1.378	0.068	1.051	4.264	330.600	22.220
2	06:17:13	TM 40360.000	6844.000	121.496%	126.296%	-1.967	0.148	1.003	3.986	333.500	21.610
3	06:17:17	TM 40050.000	6771.000	122.672%	125.918%	-2.014	0.285	1.098	3.368	333.200	22.270
x		TM 40300.000	6658.000	121.733%	124.552%	-1.786	0.167	1.051	3.872	332.400	22.030
σ		TM 229.100	261.300	0.846%	2.700%	0.355	0.110	0.047	0.459	1.554	0.369
%RSD		TM 0.568	3.924	0.695	2.168	19.860	65.790	4.504	11.850	0.468	1.674

Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	06:17:09	6.896	0.146	47.780	M 855.900	121.363%	0.235	10.850	1.628	119.646%	-0.061
2	06:17:13	6.786	0.113	47.750	M 843.300	124.752%	0.224	11.320	1.572	122.207%	-0.061
3	06:17:17	6.972	0.137	48.400	M 866.100	121.810%	0.282	11.300	1.602	121.972%	-0.069
x		6.885	0.132	47.980	M 855.100	122.642%	0.247	11.160	1.601	121.275%	-0.064
σ		0.093	0.017	0.368	M 11.380	1.841%	0.031	0.263	0.028	1.416%	0.005
%RSD		1.353	12.760	0.768	M 1.331	1.501	12.410	2.361	1.768	1.167	7.624

Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	06:17:09	1.391	-0.122	0.131	2.324	118.674%	37.080	-0.039	1.142	116.056%	-0.065
2	06:17:13	1.330	-0.107	0.137	2.454	121.138%	36.340	-0.032	1.092	T 120.207%	-0.064
3	06:17:17	1.420	-0.084	0.134	2.437	121.607%	36.870	-0.021	1.118	T 120.189%	-0.063
x		1.380	-0.105	0.134	2.405	120.473%	36.760	-0.031	1.117	T 118.817%	-0.064
σ		0.046	0.019	0.003	0.071	1.576%	0.381	0.009	0.025	T 2.392%	0.001
%RSD		3.351	18.570	2.140	2.940	1.308	1.036	28.670	2.240	T 2.013	0.854

Run	Time	201Hg	205Tl	208Pb	209Bi	238U
		ppb	ppb	ppb	ppb	ppb
1	06:17:09	0.146	-0.050	-0.012	110.139%	-0.028
2	06:17:13	0.130	-0.043	-0.012	112.041%	-0.033
3	06:17:17	0.139	-0.047	-0.012	111.945%	-0.029
x		0.138	-0.047	-0.012	111.375%	-0.030
σ		0.008	0.004	0.000	1.072%	0.003
%RSD		5.784	7.671	3.765	0.962	8.662

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User Pre-dilution: 1.000

Run	Time	7Li	9Be	10B	23Na	25Mg	27Al	28Si	31P	34S	35Cl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	06:24:20	-0.074	-0.082	0.119	T 13880.000	3229.000	7.971	23.960	M 39050.000	2034.000	T 2010000.000
2	06:24:24	-0.076	-0.078	0.250	T 14000.000	3284.000	9.514	24.430	M 39580.000	2019.000	T 1980000.000
3	06:24:28	-0.072	-0.066	0.030	T 13360.000	3221.000	8.595	22.440	M 38230.000	2012.000	T 1930000.000
x		-0.074	-0.076	0.133	T 13750.000	3245.000	8.693	23.610	M 38950.000	2022.000	T 1974000.000
σ		0.002	0.008	0.111	T 341.400	34.560	0.776	1.041	M 679.900	10.920	T 40210.000
%RSD		2.606	10.920	83.380	T 2.483	1.065	8.928	4.411	M 1.746	0.540	T 2.038

Run	Time	39K	43Ca	45Sc-KED	45Sc-CCT	47Ti	51V	52Cr	53Cl O	54Fe	55Mn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	06:24:20	TM 40400.000	2400.000	118.717%	121.627%	-0.973	0.211	1.095	4.151	533.800	6.670
2	06:24:24	TM 39860.000	2416.000	119.033%	125.663%	-1.052	0.326	1.052	3.544	534.300	6.741
3	06:24:28	TM 38810.000	2240.000	122.502%	123.777%	-0.574	0.125	1.058	4.277	528.700	6.766
x		TM 39690.000	2352.000	120.084%	123.689%	-0.866	0.221	1.068	3.991	532.300	6.726
σ		TM 808.400	97.250	2.100%	2.019%	0.256	0.101	0.023	0.392	3.120	0.050
%RSD		TM 2.037	4.134	1.748	1.633	29.590	45.570	2.195	9.812	0.586	0.743

Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	06:24:20	4.284	0.195	72.230	280.300	119.743%	0.073	7.726	2.631	117.916%	-0.058
2	06:24:24	4.251	0.144	71.890	278.900	121.280%	0.146	6.955	2.676	120.500%	-0.073
3	06:24:28	4.138	0.115	70.960	277.800	121.208%	0.093	7.675	2.668	121.238%	-0.070
x		4.224	0.151	71.690	279.000	120.744%	0.104	7.452	2.658	119.885%	-0.067
σ		0.077	0.040	0.657	1.266	0.867%	0.038	0.431	0.024	1.744%	0.008
%RSD		1.811	26.660	0.916	0.454	0.718	36.080	5.785	0.900	1.455	11.280

Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	06:24:20	1.059	-0.113	0.208	3.255	116.989%	35.840	-0.019	1.649	113.085%	-0.063
2	06:24:24	1.050	-0.116	0.225	3.265	119.276%	35.880	-0.009	1.836	114.944%	-0.067
3	06:24:28	1.039	-0.091	0.207	3.344	120.787%	36.090	-0.020	1.810	116.588%	-0.060
x		1.049	-0.107	0.213	3.288	119.017%	35.940	-0.016	1.765	114.872%	-0.063
σ		0.010	0.014	0.010	0.049	1.912%	0.134	0.006	0.101	1.752%	0.003
%RSD		0.926	12.710	4.750	1.484	1.606	0.373	37.620	5.740	1.525	5.113

Run	Time	201Hg	205Tl	208Pb	209Bi	238U
		ppb	ppb	ppb	ppb	ppb
1	06:24:20	0.166	-0.051	0.012	109.798%	-0.030
2	06:24:24	0.110	-0.047	0.013	111.179%	-0.030
3	06:24:28	0.174	-0.043	0.011	112.725%	-0.030
x		0.150	-0.047	0.012	111.234%	-0.030
σ		0.035	0.004	0.001	1.464%	0.000
%RSD		23.260	8.541	9.672	1.316	0.342

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User Pre-dilution: 1.000

Run	Time	7Li	9Be	10B	23Na	25Mg	27Al	28Si	31P	34S	35Cl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	06:31:29	-0.068	-0.074	0.350	T 14120.000	3356.000	9.224	25.430	M 39260.000	1963.000	T 1920000.000
2	06:31:33	-0.069	-0.082	0.226	T 14070.000	3365.000	8.798	35.080	M 39810.000	1963.000	T 1917000.000
3	06:31:36	-0.073	-0.066	0.480	13600.000	3330.000	8.890	25.230	M 39410.000	1976.000	T 1900000.000
x		-0.070	-0.074	0.352	T 13930.000	3350.000	8.971	28.580	M 39490.000	1967.000	T 1912000.000
σ		0.003	0.008	0.127	T 290.500	18.130	0.224	5.631	M 279.900	7.513	T 11010.000
%RSD		4.103	11.050	36.110	T 2.085	0.541	2.499	19.700	M 0.709	0.382	T 0.576

Run	Time	39K	43Ca	45Sc-KED	45Sc-CCT	47Ti	51V	52Cr	53Cl O	54Fe	55Mn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	06:31:29	TM 38590.000	4098.000	115.585%	119.481%	-1.147	0.386	1.443	3.451	472.100	9.099
2	06:31:33	TM 38670.000	4354.000	115.316%	118.543%	-1.040	0.484	1.473	3.402	484.300	9.391
3	06:31:36	TM 38470.000	4211.000	117.145%	120.010%	-1.569	0.439	1.468	3.184	477.200	9.210
x		TM 38580.000	4221.000	116.015%	119.345%	-1.252	0.436	1.461	3.346	477.900	9.233
σ		TM 102.300	128.200	0.988%	0.743%	0.280	0.049	0.016	0.142	6.121	0.148
%RSD		TM 0.265	3.037	0.851	0.623	22.370	11.340	1.106	4.255	1.281	1.597

Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	06:31:29	6.493	0.185	74.830	297.000	114.732%	0.158	7.808	3.061	117.108%	-0.075
2	06:31:33	6.535	0.186	75.140	296.700	115.534%	0.136	7.445	3.200	117.318%	-0.062
3	06:31:36	6.400	0.146	74.560	295.800	118.237%	0.138	7.868	3.059	119.142%	-0.072
x		6.476	0.173	74.840	296.500	116.168%	0.144	7.707	3.107	117.856%	-0.069
σ		0.069	0.023	0.291	0.599	1.836%	0.012	0.229	0.081	1.119%	0.007
%RSD		1.063	13.250	0.388	0.202	1.581	8.541	2.967	2.603	0.949	9.740

Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	06:31:29	1.231	-0.116	0.193	3.410	115.419%	34.960	-0.024	1.773	112.530%	-0.056
2	06:31:33	1.216	-0.124	0.192	3.363	119.018%	34.560	-0.029	1.826	113.698%	-0.060
3	06:31:36	1.262	-0.124	0.194	3.231	120.125%	35.060	-0.010	1.762	116.750%	-0.060
x		1.236	-0.121	0.193	3.335	118.187%	34.860	-0.021	1.787	114.326%	-0.059
σ		0.023	0.004	0.001	0.092	2.460%	0.261	0.010	0.034	2.179%	0.002
%RSD		1.890	3.609	0.386	2.772	2.082	0.749	45.290	1.930	1.906	3.490

Run	Time	201Hg	205Tl	208Pb	209Bi	238U
		ppb	ppb	ppb	ppb	ppb
1	06:31:29	0.189	-0.048	-0.041	109.712%	-0.033
2	06:31:33	0.101	-0.052	-0.041	110.990%	-0.034
3	06:31:36	0.151	-0.049	-0.047	113.002%	-0.034
x		0.147	-0.049	-0.043	111.234%	-0.034
σ		0.044	0.002	0.004	1.659%	0.001
%RSD		30.120	3.967	8.546	1.491	1.716

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User Pre-dilution: 1.000

Run	Time	7Li	9Be	10B	23Na	25Mg	27Al	28Si	31P	34S	35Cl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	06:38:37	91.050	92.110	91.740	5082.000	5026.000	4907.000	5019.000	5260.000	101.400	T 2229000.000
2	06:38:41	90.580	93.170	93.590	5072.000	5114.000	4907.000	4996.000	5261.000	87.040	T 2221000.000
3	06:38:44	89.730	92.360	89.770	5061.000	4999.000	4889.000	4976.000	5116.000	86.610	T 2202000.000
x		90.450	92.540	91.700	5071.000	5046.000	4901.000	4997.000	5212.000	91.670	T 2217000.000
σ		0.669	0.552	1.909	10.860	60.040	10.330	21.600	83.690	8.398	T 14220.000
%RSD		0.740	0.597	2.082	0.214	1.190	0.211	0.432	1.606	9.161	T 0.641

Run	Time	39K	43Ca	45Sc-KED	45Sc-CCT	47Ti	51V	52Cr	53Cl O	54Fe	55Mn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	06:38:37	5074.000	5517.000	115.685%	119.491%	102.200	102.100	102.200	16.670	4974.000	100.100
2	06:38:41	5072.000	5253.000	117.001%	120.791%	102.700	102.100	103.000	15.700	4993.000	99.500
3	06:38:44	5038.000	5431.000	117.575%	118.886%	102.300	100.700	101.600	20.410	5017.000	99.650
x		5061.000	5400.000	116.753%	119.723%	102.400	101.600	102.300	17.590	4995.000	99.740
σ		20.270	134.800	0.969%	0.974%	0.254	0.779	0.712	2.485	21.560	0.308
%RSD		0.401	2.496	0.830	0.813	0.248	0.767	0.696	14.130	0.432	0.309

Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	06:38:37	102.700	103.800	102.800	101.900	115.986%	103.100	100.300	99.650	114.674%	102.200
2	06:38:41	101.100	103.000	102.900	100.600	117.927%	102.600	100.400	98.990	117.810%	101.500
3	06:38:44	102.200	104.400	103.600	101.200	116.499%	104.200	102.100	98.940	116.062%	102.500
x		102.000	103.700	103.100	101.200	116.804%	103.300	100.900	99.190	116.182%	102.000
σ		0.797	0.712	0.433	0.662	1.006%	0.813	1.051	0.394	1.571%	0.508
%RSD		0.781	0.687	0.420	0.654	0.861	0.787	1.042	0.397	1.352	0.498

Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	06:38:37	103.000	103.900	52.110	103.000	117.087%	102.500	103.600	102.400	110.363%	104.000
2	06:38:41	102.200	103.900	52.360	102.200	118.736%	102.400	103.200	102.700	T 113.040%	103.600
3	06:38:44	103.900	104.200	52.710	103.900	118.133%	101.900	103.600	103.000	111.818%	103.200
x		103.000	104.000	52.390	103.000	117.985%	102.300	103.500	102.700	T 111.740%	103.600
σ		0.838	0.148	0.302	0.834	0.834%	0.370	0.200	0.299	T 1.340%	0.397
%RSD		0.813	0.142	0.577	0.810	0.707	0.362	0.193	0.291	T 1.199	0.383

Run	Time	201Hg	205Tl	208Pb	209Bi	238U
		ppb	ppb	ppb	ppb	ppb
1	06:38:37	5.062	105.900	103.700	108.350%	T 101.400
2	06:38:41	5.130	106.100	103.200	110.469%	T 99.520
3	06:38:44	5.143	106.300	103.800	109.877%	T 100.000
x		5.112	106.100	103.500	109.565%	T 100.300
σ		0.044	0.210	0.335	1.093%	T 0.985
%RSD		0.852	0.198	0.324	0.998	T 0.982

233902_10003_CCBTVA4 8/31/2019 6:45:41 AM

User Pre-dilution: 1.000

Run	Time	7Li	9Be	10B	23Na	25Mg	27Al	28Si	31P	34S	35Cl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	06:45:45	-0.046	-0.066	-0.732	7.088	6.503	2.641	-3.043	6.066	76.380	T 2119000.000
2	06:45:49	-0.027	-0.032	-0.259	6.725	4.460	2.963	-5.862	7.202	95.360	T 2102000.000
3	06:45:53	-0.050	-0.033	-0.321	4.642	2.317	3.708	-3.485	0.706	98.900	T 2083000.000
x		-0.041	-0.044	-0.438	6.152	4.426	3.104	-4.130	4.658	90.210	T 2101000.000
σ		0.012	0.019	0.257	1.320	2.093	0.547	1.516	3.469	12.110	T 17910.000
%RSD		29.940	43.350	58.730	21.450	47.290	17.640	36.700	74.480	13.420	T 0.852

Run	Time	39K	43Ca	45Sc-KED	45Sc-CCT	47Ti	51V	52Cr	53Cl O	54Fe	55Mn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	06:45:45	21.200	3.246	115.547%	120.454%	-0.091	-0.088	-0.005	3.733	3.565	0.038
2	06:45:49	21.270	3.162	116.504%	118.850%	0.226	-0.011	0.014	3.442	3.235	0.047
3	06:45:53	14.850	-12.710	117.325%	120.771%	0.120	0.020	0.032	3.227	3.466	0.044
x		19.110	-2.100	116.459%	120.025%	0.085	-0.026	0.014	3.468	3.422	0.043
σ		3.689	9.186	0.890%	1.030%	0.161	0.056	0.018	0.254	0.169	0.004
%RSD		19.310	437.500	0.764	0.858	190.000	212.600	132.500	7.323	4.939	10.350

Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	06:45:45	0.004	0.016	0.053	-0.605	116.585%	0.003	-0.030	0.006	115.621%	-0.006
2	06:45:49	0.001	-0.028	0.038	-0.654	119.293%	0.020	-0.072	0.002	116.488%	-0.015
3	06:45:53	-0.006	-0.003	0.026	-0.663	117.272%	0.011	0.167	-0.017	116.952%	-0.021
x		-0.000	-0.005	0.039	-0.641	117.717%	0.011	0.022	-0.003	116.354%	-0.014
σ		0.005	0.022	0.013	0.031	1.408%	0.009	0.128	0.012	0.676%	0.007
%RSD		1179.000	449.300	33.880	4.894	1.196	74.980	595.100	450.300	0.581	52.040

Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	06:45:45	0.110	-0.033	0.016	0.000	113.294%	0.022	0.033	-0.065	108.621%	0.012
2	06:45:49	0.098	-0.054	0.006	-0.006	114.287%	0.018	0.002	-0.077	T 116.150%	-0.002
3	06:45:53	0.096	-0.053	-0.001	-0.006	114.966%	0.014	0.012	-0.068	T 115.781%	-0.010
x		0.101	-0.047	0.007	-0.004	114.182%	0.018	0.016	-0.070	T 113.517%	-0.000
σ		0.008	0.012	0.008	0.003	0.841%	0.004	0.016	0.006	T 4.244%	0.011
%RSD		7.409	25.670	116.700	89.210	0.737	20.660	103.900	8.859	T 3.739	2793.000

Run	Time	201Hg	205Tl	208Pb	209Bi	238U
		ppb	ppb	ppb	ppb	ppb
1	06:45:45	0.014	0.047	0.000	105.439%	-0.001
2	06:45:49	0.003	0.024	-0.000	107.062%	0.004
3	06:45:53	0.003	0.019	-0.006	106.866%	-0.002
x		0.007	0.030	-0.002	106.456%	0.001
σ		0.006	0.015	0.003	0.886%	0.003
%RSD		91.960	50.380	172.900	0.832	589.300

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User Pre-dilution: 1.000

Run	Time	7Li	9Be	10B	23Na	25Mg	27Al	28Si	31P	34S	35Cl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	06:52:54	-0.070	-0.078	-0.388	5.194	-7.829	1.242	-3.832	14.350	101.000	T 1729000.000
2	06:52:58	-0.076	-0.070	-0.621	2.636	-8.394	-0.017	-1.684	30.660	95.320	T 1739000.000
3	06:53:02	-0.058	-0.058	-0.453	1.370	-10.860	0.895	-0.011	33.350	102.700	T 1718000.000
x		-0.068	-0.069	-0.487	3.067	-9.027	0.707	-1.842	26.120	99.650	T 1729000.000
σ		0.009	0.010	0.120	1.948	1.611	0.650	1.916	10.280	3.842	T 10460.000
%RSD		13.730	14.710	24.630	63.520	17.840	92.030	104.000	39.370	3.855	T 0.605

Run	Time	39K	43Ca	45Sc-KED	45Sc-CCT	47Ti	51V	52Cr	53Cl O	54Fe	55Mn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	06:52:54	-5.801	-8.211	119.220%	121.522%	0.080	-0.010	0.159	2.921	-2.465	-0.034
2	06:52:58	-4.666	-8.253	118.491%	123.512%	0.184	-0.030	0.159	2.801	-2.931	-0.026
3	06:53:02	-7.976	-4.012	119.033%	122.097%	0.044	-0.028	0.179	3.027	-2.965	-0.029
x		-6.148	-6.825	118.914%	122.377%	0.103	-0.023	0.166	2.916	-2.787	-0.030
σ		1.682	2.437	0.379%	1.024%	0.073	0.011	0.012	0.113	0.280	0.004
%RSD		27.360	35.700	0.318	0.837	70.960	47.240	6.975	3.877	10.040	13.760

Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	06:52:54	-0.052	0.146	-0.026	0.523	116.738%	-0.066	-0.044	-0.065	114.681%	-0.005
2	06:52:58	-0.048	0.094	-0.046	0.541	119.553%	-0.113	0.077	-0.062	118.704%	-0.030
3	06:53:02	-0.062	0.084	-0.046	0.490	118.673%	-0.101	-0.057	-0.090	118.350%	-0.027
x		-0.054	0.108	-0.040	0.518	118.321%	-0.093	-0.008	-0.072	117.245%	-0.021
σ		0.007	0.033	0.012	0.026	1.440%	0.024	0.074	0.016	2.227%	0.013
%RSD		13.230	30.500	29.090	4.996	1.217	26.030	943.600	21.720	1.900	64.690

Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	06:52:54	-0.002	-0.116	-0.019	-0.056	114.839%	37.910	-0.032	-0.135	109.646%	-0.021
2	06:52:58	0.002	-0.104	-0.040	-0.062	116.602%	38.100	-0.047	-0.119	T 112.456%	-0.035
3	06:53:02	-0.014	-0.105	-0.035	-0.072	117.666%	37.910	-0.047	-0.132	111.265%	-0.041
x		-0.005	-0.108	-0.031	-0.063	116.369%	37.970	-0.042	-0.129	T 111.122%	-0.032
σ		0.009	0.006	0.011	0.008	1.428%	0.110	0.009	0.009	T 1.411%	0.010
%RSD		181.200	5.859	35.820	12.380	1.227	0.291	21.370	6.742	T 1.270	31.910

Run	Time	201Hg	205Tl	208Pb	209Bi	238U
		ppb	ppb	ppb	ppb	ppb
1	06:52:54	0.023	-0.054	-0.059	107.813%	-0.053
2	06:52:58	0.003	-0.063	-0.065	109.558%	-0.060
3	06:53:02	0.013	-0.075	-0.070	108.476%	-0.063
x		0.013	-0.064	-0.065	108.616%	-0.059
σ		0.010	0.010	0.005	0.881%	0.005
%RSD		79.010	16.120	7.821	0.811	9.026

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User Pre-dilution: 1.000

Run	Time	7Li	9Be	10B	23Na	25Mg	27Al	28Si	31P	34S	35Cl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	07:00:01	-0.075	-0.078	-0.639	10.640	-10.740	5.875	5.721	19.930	103.400	T 1779000.000
2	07:00:05	-0.086	-0.070	1.489	12.560	-10.280	6.456	2.174	22.290	97.820	T 1722000.000
3	07:00:08	-0.075	-0.069	-0.745	9.445	-9.962	5.614	0.804	17.280	88.910	T 1730000.000
x		-0.079	-0.072	0.035	10.880	-10.330	5.981	2.899	19.830	96.700	T 1743000.000
σ		0.006	0.005	1.260	1.569	0.389	0.431	2.537	2.507	7.292	T 30840.000
%RSD		8.213	6.766	3582.000	14.420	3.766	7.208	87.510	12.640	7.540	T 1.769

Run	Time	39K	43Ca	45Sc-KED	45Sc-CCT	47Ti	51V	52Cr	53Cl O	54Fe	55Mn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	07:00:01	2.242	8.249	115.838%	118.770%	0.051	-0.168	0.024	3.598	-4.006	0.108
2	07:00:05	-10.850	-0.277	119.880%	117.810%	0.044	-0.045	0.035	2.928	-4.249	0.132
3	07:00:08	-9.339	-8.138	119.396%	116.960%	0.287	-0.028	0.051	2.910	-4.631	0.120
x		-5.981	-0.055	118.371%	117.846%	0.128	-0.080	0.037	3.145	-4.295	0.120
σ		7.161	8.196	2.207%	0.906%	0.138	0.076	0.014	0.392	0.315	0.012
%RSD		119.700	14780.000	1.865	0.768	108.300	95.140	36.940	12.460	7.335	10.130

Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	07:00:01	-0.064	0.100	-0.008	1.148	117.365%	-0.099	-0.031	-0.082	114.263%	-0.067
2	07:00:05	-0.066	0.077	-0.023	1.158	118.342%	-0.074	-0.100	-0.078	116.010%	-0.075
3	07:00:08	-0.067	0.141	-0.044	1.234	118.536%	-0.121	-0.033	-0.074	117.478%	-0.068
x		-0.066	0.106	-0.025	1.180	118.081%	-0.098	-0.054	-0.078	115.917%	-0.070
σ		0.002	0.032	0.018	0.047	0.628%	0.024	0.039	0.004	1.609%	0.004
%RSD		2.698	30.210	73.960	3.970	0.531	24.090	72.200	5.588	1.388	6.090

Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	07:00:01	-0.009	-0.100	-0.040	-0.071	114.222%	36.830	-0.049	-0.122	109.100%	-0.020
2	07:00:05	-0.009	-0.111	-0.040	-0.074	116.557%	36.550	-0.057	-0.129	109.883%	-0.023
3	07:00:08	-0.006	-0.092	-0.036	-0.081	116.593%	36.690	-0.050	-0.125	109.621%	-0.036
x		-0.008	-0.101	-0.039	-0.076	115.791%	36.690	-0.052	-0.125	109.534%	-0.026
σ		0.002	0.010	0.002	0.005	1.359%	0.139	0.004	0.004	0.399%	0.008
%RSD		21.100	9.436	5.746	6.968	1.173	0.378	8.379	2.823	0.364	31.900

Run	Time	201Hg	205Tl	208Pb	209Bi	238U
		ppb	ppb	ppb	ppb	ppb
1	07:00:01	-0.023	-0.083	-0.031	107.106%	-0.065
2	07:00:05	-0.013	-0.082	-0.036	107.148%	-0.066
3	07:00:08	0.006	-0.083	-0.036	108.631%	-0.068
x		-0.010	-0.083	-0.034	107.628%	-0.066
σ		0.015	0.001	0.003	0.868%	0.002
%RSD		149.700	0.754	8.716	0.807	2.725

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User Pre-dilution: 1.000

Run	Time	7Li	9Be	10B	23Na	25Mg	27Al	28Si	31P	34S	35Cl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	07:07:09	-0.075	-0.078	-0.629	3.829	-9.311	1.622	1.053	14.700	100.000	T 1782000.000
2	07:07:13	-0.082	-0.070	-0.392	2.169	-9.119	2.516	1.576	35.720	109.600	T 1778000.000
3	07:07:16	-0.077	-0.082	-0.572	1.622	-9.652	0.061	1.701	15.830	109.200	T 1779000.000
x		-0.078	-0.076	-0.531	2.540	-9.361	1.400	1.443	22.080	106.200	T 1780000.000
σ		0.004	0.006	0.124	1.150	0.270	1.242	0.344	11.820	5.415	T 2043.000
%RSD		5.007	8.296	23.280	45.250	2.886	88.780	23.830	53.530	5.096	T 0.115

Run	Time	39K	43Ca	45Sc-KED	45Sc-CCT	47Ti	51V	52Cr	53Cl O	54Fe	55Mn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	07:07:09	-11.030	-0.183	118.504%	117.649%	0.117	-0.087	0.053	3.123	-5.196	-0.040
2	07:07:13	-6.607	-11.980	117.749%	118.171%	0.117	-0.163	0.016	3.601	-4.208	-0.046
3	07:07:16	-5.951	-4.104	119.265%	118.037%	0.149	-0.123	0.047	3.426	-5.290	-0.050
x		-7.863	-5.421	118.506%	117.952%	0.128	-0.124	0.039	3.383	-4.898	-0.045
σ		2.763	6.005	0.758%	0.271%	0.019	0.038	0.020	0.242	0.599	0.005
%RSD		35.130	110.800	0.640	0.230	14.640	30.480	51.720	7.143	12.230	11.010

Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	07:07:09	-0.073	0.074	0.040	0.548	118.439%	-0.072	-0.087	-0.075	115.588%	-0.080
2	07:07:13	-0.073	0.059	0.061	0.554	119.340%	-0.091	-0.095	-0.082	115.841%	-0.076
3	07:07:16	-0.070	0.085	0.052	0.391	120.058%	-0.060	-0.077	-0.083	116.644%	-0.067
x		-0.072	0.073	0.051	0.498	119.279%	-0.074	-0.086	-0.080	116.024%	-0.074
σ		0.002	0.013	0.011	0.093	0.811%	0.016	0.009	0.004	0.552%	0.007
%RSD		2.709	17.990	20.590	18.640	0.680	21.170	10.170	5.201	0.475	9.035

Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	07:07:09	-0.012	-0.142	-0.036	-0.074	115.211%	35.500	-0.059	-0.142	106.924%	-0.067
2	07:07:13	-0.025	-0.090	-0.032	-0.074	114.854%	36.100	-0.068	-0.135	107.402%	-0.067
3	07:07:16	-0.024	-0.121	-0.037	-0.079	115.933%	36.180	-0.062	-0.132	T 115.818%	-0.060
x		-0.020	-0.118	-0.035	-0.076	115.333%	35.930	-0.063	-0.136	T 110.048%	-0.065
σ		0.007	0.026	0.002	0.003	0.550%	0.371	0.005	0.005	T 5.003%	0.004
%RSD		36.270	22.270	7.094	3.861	0.477	1.033	7.544	3.633	T 4.546	6.082

Run	Time	201Hg	205Tl	208Pb	209Bi	238U
		ppb	ppb	ppb	ppb	ppb
1	07:07:09	0.001	-0.090	-0.078	104.899%	-0.069
2	07:07:13	-0.010	-0.089	-0.078	105.617%	-0.070
3	07:07:16	-0.010	-0.089	-0.078	105.956%	-0.070
x		-0.006	-0.089	-0.078	105.491%	-0.070
σ		0.006	0.001	0.000	0.540%	0.001
%RSD		95.580	0.676	0.101	0.512	0.843

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User Pre-dilution: 1.000

Run	Time	7Li	9Be	10B	23Na	25Mg	27Al	28Si	31P	34S	35Cl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	07:14:17	-0.090	-0.070	-0.546	-2.469	-8.436	-2.019	-2.569	12.080	100.400	T 1798000.000
2	07:14:21	-0.081	-0.082	-0.299	-0.742	-9.249	-2.037	-2.525	21.310	97.990	T 1777000.000
3	07:14:25	-0.079	-0.078	-0.346	-1.541	-10.790	-2.218	-1.876	26.060	99.350	T 1770000.000
x		-0.083	-0.077	-0.397	-1.584	-9.490	-2.091	-2.323	19.820	99.260	T 1782000.000
σ		0.006	0.006	0.131	0.864	1.193	0.110	0.388	7.107	1.224	T 14440.000
%RSD		6.932	8.261	32.950	54.560	12.570	5.276	16.700	35.860	1.233	T 0.811

Run	Time	39K	43Ca	45Sc-KED	45Sc-CCT	47Ti	51V	52Cr	53Cl O	54Fe	55Mn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	07:14:17	-3.413	7.771	119.220%	119.504%	0.150	-0.099	0.078	3.313	-4.781	-0.043
2	07:14:21	-3.270	-4.106	120.301%	122.296%	0.112	-0.145	0.087	3.354	-5.767	-0.035
3	07:14:25	-7.626	-0.231	121.144%	121.229%	-0.060	-0.048	0.085	3.158	-5.258	-0.046
x		-4.770	1.145	120.222%	121.010%	0.067	-0.097	0.083	3.275	-5.269	-0.041
σ		2.475	6.057	0.965%	1.409%	0.112	0.049	0.005	0.103	0.493	0.005
%RSD		51.880	529.200	0.802	1.164	166.500	49.940	5.592	3.154	9.360	12.950

Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	07:14:17	-0.072	0.097	-0.050	0.098	119.156%	-0.093	-0.058	-0.091	116.645%	-0.071
2	07:14:21	-0.070	0.122	-0.053	0.060	121.661%	-0.082	-0.076	-0.089	118.364%	-0.088
3	07:14:25	-0.069	0.091	-0.046	0.053	119.895%	-0.067	-0.037	-0.094	117.709%	-0.074
x		-0.070	0.103	-0.050	0.071	120.237%	-0.080	-0.057	-0.091	117.573%	-0.078
σ		0.001	0.016	0.004	0.024	1.287%	0.013	0.020	0.003	0.867%	0.009
%RSD		1.868	15.950	7.454	34.480	1.070	16.340	34.120	2.903	0.738	11.700

Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	07:14:17	-0.007	-0.142	-0.040	-0.074	114.594%	37.680	-0.065	-0.142	T 115.229%	-0.055
2	07:14:21	-0.025	-0.108	-0.030	-0.079	116.906%	37.650	-0.059	-0.155	T 114.850%	-0.055
3	07:14:25	-0.022	-0.102	-0.043	-0.077	118.234%	37.690	-0.064	-0.142	110.261%	-0.058
x		-0.018	-0.117	-0.037	-0.076	116.578%	37.670	-0.063	-0.147	T 113.447%	-0.056
σ		0.010	0.022	0.007	0.003	1.842%	0.021	0.004	0.007	T 2.765%	0.002
%RSD		53.580	18.430	18.400	3.343	1.580	0.057	5.669	5.072	T 2.438	2.939

Run	Time	201Hg	205Tl	208Pb	209Bi	238U
		ppb	ppb	ppb	ppb	ppb
1	07:14:17	-0.010	-0.092	-0.082	105.745%	-0.070
2	07:14:21	-0.007	-0.088	-0.082	106.686%	-0.070
3	07:14:25	-0.013	-0.089	-0.081	108.449%	-0.071
x		-0.010	-0.090	-0.082	106.960%	-0.070
σ		0.003	0.002	0.000	1.373%	0.001
%RSD		33.740	2.035	0.461	1.283	0.744

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User Pre-dilution: 1.000

Run	Time	7Li	9Be	10B	23Na	25Mg	27Al	28Si	31P	34S	35Cl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	07:21:27	91.280	94.410	95.860	5114.000	5140.000	4981.000	5115.000	5350.000	100.000	T 2282000.000
2	07:21:30	91.920	95.040	93.530	5178.000	5116.000	5053.000	5169.000	5493.000	84.970	T 2275000.000
3	07:21:34	91.500	94.460	93.390	5075.000	5077.000	4886.000	5077.000	5318.000	78.090	T 2241000.000
x		91.570	94.640	94.260	5123.000	5111.000	4973.000	5120.000	5387.000	87.690	T 2266000.000
σ		0.321	0.348	1.386	51.930	32.210	83.620	46.440	93.370	11.210	T 21970.000
%RSD		0.351	0.367	1.470	1.014	0.630	1.681	0.907	1.733	12.790	T 0.969

Run	Time	39K	43Ca	45Sc-KED	45Sc-CCT	47Ti	51V	52Cr	53Cl O	54Fe	55Mn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	07:21:27	5079.000	5176.000	115.398%	118.009%	101.400	103.900	102.700	17.950	5061.000	101.800
2	07:21:30	5117.000	5450.000	114.767%	116.345%	106.900	103.200	103.700	18.870	5071.000	100.700
3	07:21:34	5010.000	5318.000	117.760%	119.069%	103.000	103.700	103.400	15.540	5045.000	99.700
x		5069.000	5315.000	115.975%	117.808%	103.800	103.600	103.300	17.460	5059.000	100.700
σ		53.950	136.800	1.578%	1.373%	2.835	0.348	0.558	1.720	12.930	1.035
%RSD		1.064	2.574	1.360	1.166	2.731	0.336	0.540	9.854	0.256	1.028

Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	07:21:27	104.200	104.800	104.600	101.400	113.892%	103.700	101.800	99.740	113.931%	101.500
2	07:21:30	103.900	104.700	102.600	99.140	115.802%	102.600	100.600	99.420	114.642%	102.300
3	07:21:34	100.800	102.800	102.500	99.900	116.468%	102.700	99.920	99.560	116.750%	100.600
x		103.000	104.100	103.200	100.200	115.388%	103.000	100.800	99.570	115.108%	101.400
σ		1.910	1.162	1.152	1.163	1.337%	0.651	0.960	0.158	1.466%	0.855
%RSD		1.855	1.117	1.116	1.161	1.159	0.632	0.952	0.159	1.274	0.843

Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	07:21:27	103.400	103.200	52.000	102.300	116.076%	102.200	102.000	102.300	109.563%	102.100
2	07:21:30	103.100	102.900	52.290	102.400	116.135%	102.300	103.200	103.400	111.680%	102.000
3	07:21:34	101.800	102.400	51.040	102.000	117.933%	102.500	102.500	102.300	112.164%	102.500
x		102.700	102.800	51.780	102.200	116.714%	102.300	102.600	102.700	111.136%	102.200
σ		0.875	0.409	0.655	0.227	1.055%	0.153	0.600	0.604	1.384%	0.250
%RSD		0.851	0.397	1.264	0.222	0.904	0.149	0.585	0.588	1.245	0.245

Run	Time	201Hg	205Tl	208Pb	209Bi	238U
		ppb	ppb	ppb	ppb	ppb
1	07:21:27	5.029	104.500	101.700	107.257%	T 101.000
2	07:21:30	5.063	104.400	101.600	108.409%	T 99.290
3	07:21:34	5.031	103.900	101.800	109.401%	T 98.490
x		5.041	104.300	101.700	108.355%	T 99.580
σ		0.019	0.337	0.086	1.073%	T 1.264
%RSD		0.382	0.323	0.085	0.990	T 1.269

233902_10003_CCBTVA5 8/31/2019 7:28:32 AM

User Pre-dilution: 1.000

Run	Time	7Li	9Be	10B	23Na	25Mg	27Al	28Si	31P	34S	35Cl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	07:28:36	0.016	0.009	-0.237	9.888	3.808	8.686	1.135	2.092	90.120	T 2152000.000
2	07:28:40	0.011	0.003	-0.258	7.877	1.271	7.811	0.892	-13.530	90.460	T 2128000.000
3	07:28:44	-0.021	0.026	-0.351	4.197	2.656	4.237	0.005	9.239	94.330	T 2127000.000
x		0.002	0.013	-0.282	7.321	2.578	6.911	0.677	-0.733	91.640	T 2136000.000
σ		0.020	0.012	0.061	2.886	1.270	2.357	0.595	11.640	2.338	T 14190.000
%RSD		1022.000	92.980	21.530	39.430	49.260	34.110	87.810	1589.000	2.551	T 0.664

Run	Time	39K	43Ca	45Sc-KED	45Sc-CCT	47Ti	51V	52Cr	53Cl O	54Fe	55Mn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	07:28:36	24.820	10.480	115.743%	118.692%	0.407	0.078	0.099	3.680	8.251	0.144
2	07:28:40	19.950	11.020	115.988%	115.364%	0.087	-0.055	0.059	3.702	6.289	0.094
3	07:28:44	17.090	6.829	117.122%	118.123%	0.260	0.051	0.053	3.384	4.080	0.026
x		20.620	9.442	116.284%	117.393%	0.251	0.024	0.070	3.588	6.207	0.088
σ		3.911	2.279	0.735%	1.780%	0.160	0.070	0.025	0.178	2.087	0.059
%RSD		18.970	24.130	0.632	1.517	63.630	288.200	36.140	4.949	33.620	67.330

Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	07:28:36	0.092	0.099	0.125	-0.579	114.096%	0.160	0.221	0.084	114.345%	0.080
2	07:28:40	0.049	0.095	0.060	-0.621	113.867%	0.106	0.092	0.032	113.794%	0.050
3	07:28:44	0.030	-0.003	0.045	-0.740	114.819%	0.027	0.020	0.027	115.238%	0.025
x		0.057	0.064	0.077	-0.647	114.260%	0.097	0.111	0.048	114.459%	0.052
σ		0.032	0.058	0.042	0.084	0.497%	0.067	0.102	0.032	0.729%	0.028
%RSD		55.240	91.120	54.980	12.940	0.435	68.750	91.850	66.700	0.637	53.840

Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	07:28:36	0.192	0.056	0.056	0.084	111.326%	0.127	0.095	0.014	106.261%	0.104
2	07:28:40	0.169	0.040	0.024	0.044	110.722%	0.056	0.067	-0.002	106.556%	0.079
3	07:28:44	0.108	0.022	0.024	0.036	112.648%	0.027	0.032	-0.055	107.343%	0.027
x		0.157	0.039	0.035	0.055	111.565%	0.070	0.065	-0.014	106.720%	0.070
σ		0.044	0.017	0.018	0.026	0.985%	0.051	0.031	0.036	0.560%	0.039
%RSD		27.890	43.500	53.440	47.230	0.883	72.900	48.270	251.000	0.524	56.150

Run	Time	201Hg	205Tl	208Pb	209Bi	238U
		ppb	ppb	ppb	ppb	ppb
1	07:28:36	-0.002	0.137	0.096	103.175%	0.092
2	07:28:40	0.005	0.100	0.055	102.879%	0.060
3	07:28:44	-0.003	0.064	0.032	104.437%	0.027
x		-0.000	0.100	0.061	103.497%	0.059
σ		0.004	0.037	0.032	0.827%	0.033
%RSD		2537.000	36.520	53.060	0.799	54.690

233903_10003_CRDL_A2 8/31/2019 7:35:41 AM

User Pre-dilution: 1.000

Run	Time	7Li	9Be	10B	23Na	25Mg	27Al	28Si	31P	34S	35Cl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	07:35:45	0.874	0.934	0.799	255.300	254.700	244.700	44.530	47.300	91.600	T 2146000.000
2	07:35:49	0.864	0.986	0.657	246.500	242.600	242.000	47.150	39.750	101.900	T 2123000.000
3	07:35:53	0.846	0.908	0.989	247.300	246.200	243.000	50.450	28.880	89.890	T 2117000.000
x		0.861	0.943	0.815	249.700	247.800	243.300	47.370	38.640	94.450	T 2129000.000
σ		0.014	0.040	0.167	4.856	6.218	1.359	2.967	9.261	6.484	T 15230.000
%RSD		1.598	4.192	20.470	1.945	2.509	0.559	6.262	23.970	6.864	T 0.715

Run	Time	39K	43Ca	45Sc-KED	45Sc-CCT	47Ti	51V	52Cr	53Cl O	54Fe	55Mn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	07:35:45	260.000	249.500	118.590%	117.010%	1.069	1.010	0.938	3.784	249.000	0.946
2	07:35:49	249.800	222.800	121.773%	120.073%	0.868	0.887	1.006	4.177	246.500	0.949
3	07:35:53	249.200	250.400	120.159%	122.034%	0.711	0.854	0.979	4.221	245.000	0.991
x		253.000	240.900	120.174%	119.706%	0.883	0.917	0.974	4.061	246.800	0.962
σ		6.041	15.710	1.592%	2.532%	0.180	0.082	0.034	0.240	2.009	0.025
%RSD		2.388	6.522	1.324	2.115	20.360	8.965	3.508	5.918	0.814	2.576

Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	07:35:45	0.982	0.922	1.055	0.472	117.432%	1.044	1.046	0.926	116.081%	0.904
2	07:35:49	0.952	1.003	1.032	0.395	119.391%	1.103	0.971	0.988	116.455%	0.974
3	07:35:53	0.924	1.074	0.977	0.400	118.801%	1.050	0.961	0.880	116.950%	0.928
x		0.953	1.000	1.021	0.423	118.541%	1.066	0.993	0.931	116.495%	0.935
σ		0.029	0.076	0.040	0.043	1.005%	0.032	0.047	0.054	0.436%	0.035
%RSD		3.043	7.575	3.950	10.220	0.848	3.046	4.709	5.792	0.374	3.782

Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	07:35:45	1.005	1.014	0.499	1.020	114.103%	0.989	0.995	0.918	107.906%	0.980
2	07:35:49	1.019	0.938	0.513	0.956	115.448%	1.002	0.953	0.849	T 115.734%	1.024
3	07:35:53	0.958	0.925	0.498	1.049	115.948%	0.989	0.959	0.940	T 114.760%	0.968
x		0.994	0.959	0.503	1.008	115.166%	0.993	0.969	0.902	T 112.800%	0.990
σ		0.032	0.048	0.008	0.048	0.954%	0.008	0.023	0.048	T 4.266%	0.030
%RSD		3.191	4.997	1.657	4.719	0.828	0.786	2.332	5.266	T 3.782	2.991

Run	Time	201Hg	205Tl	208Pb	209Bi	238U
		ppb	ppb	ppb	ppb	ppb
1	07:35:45	0.188	0.986	0.964	103.236%	0.969
2	07:35:49	0.191	1.005	0.981	104.206%	0.956
3	07:35:53	0.181	0.982	0.993	104.183%	0.944
x		0.187	0.991	0.979	103.875%	0.956
σ		0.005	0.012	0.014	0.553%	0.012
%RSD		2.684	1.239	1.475	0.533	1.291

233904_10003_CRDL_B2 8/31/2019 7:42:49 AM

User Pre-dilution: 1.000

Run	Time	7Li	9Be	10B	23Na	25Mg	27Al	28Si	31P	34S	35Cl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	07:42:53	4.251	4.351	4.055	495.300	495.200	493.500	242.500	271.600	92.430	T 2104000.000
2	07:42:57	4.549	4.456	4.393	507.700	508.900	495.900	262.200	255.500	89.350	T 2119000.000
3	07:43:01	4.157	4.361	4.227	495.700	507.200	506.400	259.400	280.200	87.170	T 2097000.000
x		4.319	4.389	4.225	499.600	503.800	498.600	254.700	269.100	89.650	T 2106000.000
σ		0.205	0.058	0.169	7.039	7.435	6.844	10.670	12.500	2.645	T 11080.000
%RSD		4.742	1.315	4.005	1.409	1.476	1.373	4.190	4.644	2.950	T 0.526

Run	Time	39K	43Ca	45Sc-KED	45Sc-CCT	47Ti	51V	52Cr	53Cl O	54Fe	55Mn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	07:42:53	507.300	572.300	118.185%	116.920%	5.343	5.136	5.033	3.847	493.600	4.825
2	07:42:57	505.200	473.200	118.806%	123.325%	5.966	4.807	5.002	4.425	496.700	4.907
3	07:43:01	505.000	575.300	118.949%	122.756%	5.087	4.779	5.042	4.987	497.500	5.005
x		505.800	540.300	118.647%	121.001%	5.465	4.907	5.026	4.420	495.900	4.912
σ		1.262	58.080	0.406%	3.545%	0.452	0.198	0.021	0.570	2.059	0.090
%RSD		0.250	10.750	0.342	2.930	8.272	4.039	0.413	12.890	0.415	1.832

Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	07:42:53	5.043	5.015	5.680	4.690	116.834%	5.096	5.191	4.799	116.754%	4.801
2	07:42:57	4.959	5.024	5.553	4.622	118.579%	5.047	4.497	4.904	117.141%	5.028
3	07:43:01	5.028	5.008	5.347	4.642	119.831%	5.135	4.935	4.875	117.098%	5.041
x		5.010	5.016	5.527	4.651	118.415%	5.093	4.874	4.859	116.997%	4.957
σ		0.045	0.008	0.168	0.035	1.505%	0.044	0.351	0.054	0.212%	0.135
%RSD		0.890	0.159	3.040	0.752	1.271	0.865	7.197	1.118	0.181	2.731

Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	07:42:53	4.952	4.988	2.530	4.662	114.864%	5.016	4.962	5.213	106.959%	4.896
2	07:42:57	4.984	5.032	2.589	5.066	116.236%	4.982	5.062	4.930	109.899%	5.013
3	07:43:01	4.994	5.069	2.559	4.878	115.843%	5.051	5.129	5.016	108.844%	5.004
x		4.977	5.030	2.559	4.869	115.648%	5.016	5.051	5.053	108.568%	4.971
σ		0.022	0.041	0.030	0.202	0.706%	0.034	0.084	0.145	1.489%	0.065
%RSD		0.433	0.811	1.159	4.148	0.611	0.687	1.658	2.866	1.372	1.307

Run	Time	201Hg	205Tl	208Pb	209Bi	238U
		ppb	ppb	ppb	ppb	ppb
1	07:42:53	0.472	5.056	5.012	105.653%	4.892
2	07:42:57	0.482	5.021	5.007	106.099%	4.867
3	07:43:01	0.432	5.106	5.016	105.422%	4.900
x		0.462	5.061	5.012	105.725%	4.886
σ		0.027	0.043	0.004	0.344%	0.017
%RSD		5.749	0.851	0.089	0.325	0.351

233407_10003_ICSA2 8/31/2019 7:49:57 AM

User Pre-dilution: 1.000

Run	Time	7Li	9Be	10B	23Na	25Mg	27Al	28Si	31P	34S	35Cl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	07:50:01	0.168	-0.068	0.517	TM 55330.000	M 51570.000	M 50070.000	5.312	M 56180.000	3331.000	T 2234000.000
2	07:50:04	0.155	-0.077	1.551	TM 55900.000	M 51120.000	M 49570.000	6.859	M 55120.000	3322.000	T 2194000.000
3	07:50:08	0.136	-0.054	0.288	TM 55740.000	M 50790.000	TM 52490.000	3.358	M 55820.000	3327.000	T 2197000.000
x		0.153	-0.066	0.786	TM 55660.000	M 51160.000	TM 50710.000	5.176	M 55700.000	3327.000	T 2208000.000
σ		0.016	0.012	0.673	TM 295.400	M 388.500	TM 1558.000	1.755	M 540.500	4.862	T 22610.000
%RSD		10.680	17.790	85.630	TM 0.531	M 0.759	TM 3.073	33.900	M 0.970	0.146	T 1.024

Run	Time	39K	43Ca	45Sc-KED	45Sc-CCT	47Ti	51V	52Cr	53Cl O	54Fe	55Mn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	07:50:01	TM 55810.000	M 52720.000	104.051%	108.216%	M 1052.000	-0.049	0.077	3.397	TM 55220.000	-0.136
2	07:50:04	TM 55180.000	M 52640.000	105.881%	110.390%	M 1049.000	-0.039	0.055	3.334	TM 54730.000	-0.108
3	07:50:08	TM 55200.000	M 53540.000	105.362%	106.313%	M 1034.000	-0.076	0.044	3.432	TM 54720.000	-0.198
x		TM 55400.000	M 52970.000	105.098%	108.306%	M 1045.000	-0.055	0.059	3.388	TM 54890.000	-0.147
σ		TM 362.400	M 500.700	0.943%	2.040%	M 9.427	0.019	0.017	0.050	TM 288.900	0.046
%RSD		TM 0.654	M 0.945	0.897	1.884	M 0.902	35.150	28.370	1.466	TM 0.526	31.010

Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	07:50:01	-0.074	-0.039	0.145	-0.344	99.589%	0.053	-0.012	0.443	104.300%	0.002
2	07:50:04	-0.076	-0.055	0.134	-0.358	100.762%	0.038	0.002	0.468	106.243%	-0.027
3	07:50:08	-0.054	-0.079	0.200	-0.408	100.945%	0.028	0.097	0.478	105.938%	-0.018
x		-0.068	-0.058	0.159	-0.370	100.432%	0.040	0.029	0.463	105.494%	-0.014
σ		0.012	0.020	0.035	0.034	0.736%	0.012	0.059	0.018	1.045%	0.015
%RSD		17.980	35.160	22.130	9.205	0.733	31.320	204.500	3.856	0.991	104.200

Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	07:50:01	M 1066.000	-0.085	-0.028	-0.010	107.508%	0.081	0.018	-0.053	99.441%	-0.045
2	07:50:04	M 1063.000	-0.097	-0.033	-0.003	107.880%	0.065	0.025	-0.032	100.417%	-0.053
3	07:50:08	M 1073.000	-0.099	-0.047	-0.059	107.497%	0.074	0.013	-0.025	103.006%	-0.051
x		M 1067.000	-0.094	-0.036	-0.024	107.629%	0.073	0.019	-0.037	100.955%	-0.050
σ		M 4.951	0.008	0.010	0.030	0.218%	0.008	0.006	0.015	1.842%	0.004
%RSD		M 0.464	8.200	27.220	127.500	0.203	10.480	34.300	39.900	1.825	8.324

Run	Time	201Hg	205Tl	208Pb	209Bi	238U
		ppb	ppb	ppb	ppb	ppb
1	07:50:01	-0.004	-0.073	-0.028	95.748%	-0.065
2	07:50:04	0.003	-0.078	-0.032	97.720%	-0.064
3	07:50:08	-0.001	-0.081	-0.034	96.684%	-0.064
x		-0.001	-0.077	-0.031	96.717%	-0.064
σ		0.003	0.004	0.003	0.987%	0.000
%RSD		376.500	5.129	10.740	1.020	0.688

233596_10003_ICSAB2 8/31/2019 7:57:07 AM

User Pre-dilution: 1.000

Run	Time	7Li	9Be	10B	23Na	25Mg	27Al	28Si	31P	34S	35Cl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	07:57:10	87.710	90.270	89.920	TM 54470.000	M 50400.000	M 48870.000	4989.000	M 59050.000	3240.000	T 2299000.000
2	07:57:14	88.350	92.570	90.730	TM 53980.000	M 50260.000	M 48830.000	4979.000	M 59370.000	3325.000	T 2281000.000
3	07:57:18	90.350	92.240	90.930	TM 54190.000	M 50430.000	M 48880.000	4958.000	M 58580.000	3161.000	T 2234000.000
x		88.800	91.690	90.530	TM 54210.000	M 50360.000	M 48860.000	4975.000	M 59000.000	3242.000	T 2272000.000
σ		1.378	1.240	0.538	TM 241.200	M 90.530	M 29.400	16.230	M 396.700	81.850	T 33630.000
%RSD		1.551	1.353	0.594	TM 0.445	M 0.180	M 0.060	0.326	M 0.672	2.525	T 1.481

Run	Time	39K	43Ca	45Sc-KED	45Sc-CCT	47Ti	51V	52Cr	53Cl O	54Fe	55Mn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	07:57:10	TM 53890.000	M 52930.000	105.511%	106.359%	M 1141.000	103.900	103.100	19.300	TM 53870.000	101.200
2	07:57:14	TM 53740.000	M 52260.000	106.690%	109.906%	M 1149.000	103.800	103.800	21.340	TM 53490.000	102.400
3	07:57:18	TM 52960.000	M 53130.000	106.896%	107.862%	M 1149.000	105.300	104.000	16.510	TM 53230.000	101.300
x		TM 53530.000	M 52770.000	106.366%	108.042%	M 1146.000	104.300	103.600	19.050	TM 53530.000	101.600
σ		TM 501.400	M 458.100	0.748%	1.781%	M 4.416	0.848	0.448	2.426	TM 321.100	0.668
%RSD		TM 0.937	M 0.868	0.703	1.648	M 0.385	0.813	0.432	12.730	TM 0.600	0.657

Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	07:57:10	101.900	102.900	102.500	104.800	102.209%	107.900	106.900	101.400	104.930%	101.000
2	07:57:14	103.600	103.400	103.200	106.500	102.792%	109.800	107.000	101.300	107.715%	101.300
3	07:57:18	103.900	103.800	102.700	105.900	102.462%	109.500	107.200	102.300	107.321%	101.800
x		103.100	103.400	102.800	105.700	102.488%	109.000	107.000	101.700	106.655%	101.400
σ		1.038	0.446	0.376	0.851	0.293%	0.998	0.172	0.556	1.507%	0.440
%RSD		1.007	0.431	0.366	0.805	0.285	0.915	0.161	0.547	1.413	0.434

Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	07:57:10	M 1171.000	100.300	49.350	101.700	109.135%	101.400	102.400	101.100	102.744%	105.500
2	07:57:14	M 1173.000	100.600	50.380	102.100	110.298%	102.000	103.900	101.000	104.066%	106.000
3	07:57:18	M 1185.000	101.100	49.650	101.600	111.224%	101.500	102.700	100.100	T 108.000%	104.400
x		M 1176.000	100.700	49.790	101.800	110.219%	101.600	103.000	100.700	T 104.937%	105.300
σ		M 7.754	0.397	0.534	0.259	1.047%	0.297	0.795	0.562	T 2.734%	0.811
%RSD		M 0.659	0.394	1.073	0.254	0.950	0.292	0.773	0.558	T 2.605	0.770

Run	Time	201Hg	205Tl	208Pb	209Bi	238U
		ppb	ppb	ppb	ppb	ppb
1	07:57:10	5.310	105.500	102.300	98.907%	T 105.600
2	07:57:14	5.153	106.200	102.100	100.452%	T 104.500
3	07:57:18	4.985	105.300	101.900	101.992%	T 104.200
x		5.149	105.700	102.100	100.450%	T 104.800
σ		0.162	0.424	0.214	1.543%	T 0.727
%RSD		3.153	0.401	0.209	1.536	T 0.694

233908_10003_CCV6 8/31/2019 8:04:15 AM

User Pre-dilution: 1.000

Run	Time	7Li	9Be	10B	23Na	25Mg	27Al	28Si	31P	34S	35Cl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	08:04:19	88.940	91.930	89.230	5113.000	5076.000	4879.000	5005.000	5269.000	87.250	T 2243000.000
2	08:04:23	91.570	93.570	92.650	5139.000	5046.000	4912.000	5086.000	5246.000	87.650	T 2239000.000
3	08:04:27	88.540	92.460	92.780	5009.000	5049.000	4896.000	4952.000	5248.000	82.910	T 2188000.000
x		89.680	92.650	91.550	5087.000	5057.000	4896.000	5014.000	5254.000	85.940	T 2224000.000
σ		1.644	0.838	2.015	68.630	16.560	16.620	67.150	12.210	2.629	T 30700.000
%RSD		1.833	0.904	2.201	1.349	0.327	0.339	1.339	0.232	3.059	T 1.381

Run	Time	39K	43Ca	45Sc-KED	45Sc-CCT	47Ti	51V	52Cr	53Cl O	54Fe	55Mn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	08:04:19	5003.000	5724.000	112.481%	115.726%	101.600	102.400	102.500	20.070	5038.000	100.600
2	08:04:23	5089.000	5243.000	112.660%	113.624%	103.300	104.000	103.600	19.180	5075.000	100.500
3	08:04:27	4970.000	5191.000	116.128%	116.936%	99.970	102.200	102.200	17.080	4991.000	99.810
x		5021.000	5386.000	113.756%	115.429%	101.600	102.800	102.800	18.780	5035.000	100.300
σ		61.120	293.700	2.056%	1.676%	1.653	0.976	0.758	1.539	42.230	0.428
%RSD		1.217	5.453	1.807	1.452	1.626	0.949	0.737	8.197	0.839	0.427

Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	08:04:19	103.200	104.500	103.800	101.900	111.791%	103.600	100.300	99.690	113.568%	101.900
2	08:04:23	101.800	103.800	102.700	100.700	115.375%	103.000	100.200	99.050	113.882%	102.000
3	08:04:27	103.100	104.100	102.600	101.600	115.550%	102.400	98.190	99.540	115.899%	101.600
x		102.700	104.100	103.000	101.400	114.238%	103.000	99.570	99.430	114.450%	101.800
σ		0.743	0.331	0.677	0.612	2.121%	0.624	1.195	0.337	1.265%	0.229
%RSD		0.724	0.318	0.657	0.604	1.857	0.606	1.201	0.339	1.105	0.225

Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	08:04:19	101.600	103.100	51.740	102.100	114.801%	103.500	102.600	101.000	110.830%	102.100
2	08:04:23	103.800	104.900	51.820	103.300	117.139%	102.500	103.500	102.300	112.327%	102.900
3	08:04:27	102.200	103.200	51.810	102.600	118.846%	102.800	102.500	102.300	113.828%	102.300
x		102.500	103.700	51.790	102.700	116.929%	102.900	102.800	101.900	112.328%	102.400
σ		1.133	0.983	0.048	0.620	2.031%	0.511	0.560	0.767	1.499%	0.427
%RSD		1.105	0.948	0.092	0.603	1.737	0.496	0.544	0.752	1.335	0.417

Run	Time	201Hg	205Tl	208Pb	209Bi	238U
		ppb	ppb	ppb	ppb	ppb
1	08:04:19	5.057	102.400	102.100	108.879%	100.600
2	08:04:23	5.080	104.300	102.200	110.004%	T 98.410
3	08:04:27	4.977	104.000	102.300	112.406%	T 97.560
x		5.038	103.600	102.200	110.430%	T 98.860
σ		0.054	1.035	0.094	1.802%	T 1.573
%RSD		1.070	1.000	0.092	1.632	T 1.591

233902_10003_CCBTVA6 8/31/2019 8:11:24 AM

User Pre-dilution: 1.000

Run	Time	7Li	9Be	10B	23Na	25Mg	27Al	28Si	31P	34S	35Cl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	08:11:28	-0.029	-0.022	-0.303	21.390	16.380	19.100	-0.039	19.960	98.760	T 2081000.000
2	08:11:32	-0.023	-0.070	-0.454	22.490	15.210	16.490	-0.661	7.775	99.740	T 2108000.000
3	08:11:36	-0.021	-0.001	-0.523	17.310	9.967	13.780	0.538	-0.670	79.200	T 2079000.000
x		-0.024	-0.031	-0.427	20.400	13.850	16.460	-0.054	9.023	92.570	T 2090000.000
σ		0.004	0.035	0.113	2.730	3.416	2.659	0.600	10.370	11.590	T 16120.000
%RSD		16.910	112.700	26.410	13.380	24.660	16.160	1109.000	115.000	12.520	T 0.771

Run	Time	39K	43Ca	45Sc-KED	45Sc-CCT	47Ti	51V	52Cr	53Cl O	54Fe	55Mn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	08:11:28	29.070	23.310	114.367%	115.692%	0.412	-0.038	0.104	3.865	18.940	0.090
2	08:11:32	29.210	14.430	116.955%	118.331%	0.471	-0.037	0.056	4.151	15.850	0.086
3	08:11:36	20.880	34.570	116.893%	121.285%	0.366	0.045	0.063	3.463	13.910	0.065
x		26.390	24.110	116.072%	118.436%	0.416	-0.010	0.074	3.826	16.230	0.080
σ		4.772	10.090	1.476%	2.798%	0.052	0.048	0.026	0.346	2.538	0.013
%RSD		18.090	41.860	1.272	2.362	12.600	482.900	34.770	9.043	15.630	16.730

Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	08:11:28	0.061	0.034	0.117	-0.637	114.959%	0.089	0.127	0.058	114.140%	0.059
2	08:11:32	0.035	0.020	0.077	-0.698	116.390%	0.047	0.165	0.067	114.921%	0.053
3	08:11:36	0.044	0.038	0.061	-0.614	116.156%	0.061	0.143	0.058	115.074%	0.045
x		0.047	0.031	0.085	-0.650	115.835%	0.066	0.145	0.061	114.712%	0.052
σ		0.013	0.010	0.029	0.043	0.767%	0.021	0.019	0.005	0.501%	0.007
%RSD		28.600	31.050	33.660	6.647	0.662	32.070	12.900	7.780	0.436	12.810

Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	08:11:28	0.464	0.021	0.040	0.021	112.238%	0.052	0.053	0.018	108.295%	0.093
2	08:11:32	0.419	0.018	0.036	0.049	113.027%	0.034	0.079	-0.007	T 111.900%	0.056
3	08:11:36	0.397	-0.007	0.030	0.008	113.021%	0.054	0.065	0.003	106.442%	0.051
x		0.426	0.011	0.035	0.026	112.762%	0.047	0.066	0.005	T 108.879%	0.066
σ		0.034	0.016	0.005	0.021	0.454%	0.011	0.013	0.013	T 2.776%	0.023
%RSD		7.951	146.400	15.100	80.100	0.402	22.820	19.990	271.100	T 2.549	34.380

Run	Time	201Hg	205Tl	208Pb	209Bi	238U
		ppb	ppb	ppb	ppb	ppb
1	08:11:28	0.007	0.122	0.066	104.494%	0.069
2	08:11:32	0.004	0.123	0.058	106.052%	0.050
3	08:11:36	-0.013	0.103	0.043	105.850%	0.042
x		-0.001	0.116	0.056	105.465%	0.053
σ		0.011	0.011	0.011	0.847%	0.014
%RSD		1648.000	9.593	20.440	0.803	25.990

Experiment Details

Description	PlasmaLab Template BlankExperiment
Template Filename	C:\Program Files\Thermo Fisher\PlasmaLab\Templates\TVA Project XSII SN 01780 C.tet
Created By User	metals
Analyte Database	Pace.tea
Creation Timestamp	7/10/2008 4:47:18 PM
Last Edited By	ICM3
Last Edit Timestamp	9/4/2019 6:54:19 AM
Instrument Detector	Simultaneous
Database Version	3,51
Acquisition Mode	Unknown

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
No flag
Semi Quant
Standard Addition
Multi Element

Result cells
Internal Standard
Excluded
QC Warning
QC Failure
Transient TRA only:
Peak Not Found
Manually Edited
Merged Peak

Data warning flags
I - Invalid calibration
T - Tripped
F - Interference correction failed
M - Result over max
V - Valley integration failed
D - Different method used

Setup

Survey Scan Setup

Sweeps	10
Dwell Time	600
Channels Per Mass	10
Acquisition Duration	13345

Main Run Setup

Main Run	Peak Jumping
Sweeps	45
Dwell Time	10000
Channels Per Mass	1
Acquisition Duration	32128
Channel Spacing	0.02

Survey Scan Regions

Start AMU	End AMU	Channels	Dwell ms	Resolution
4.59	11.50	69	600	
12.50	13.50	10	600	
22.59	28.41	58	600	
30.59	31.41	8	600	
33.59	35.50	19	600	
38.59	39.41	8	600	
42.59	45.50	29	600	
46.50	79.41	329	600	
80.59	245.50	1649	600	

Peak Jump Regions

Analyte	Channels	Dwell ms	Resolution
7Li	1	10000	Standard
9Be	1	10000	Standard
10B	1	10000	Standard
23Na	1	5000	
25Mg	1	10000	Standard
27Al	1	10000	Standard
28Si	1	10000	Standard
31P	1	10000	Standard
34S	1	10000	
35Cl	1	10000	
39K	1	10000	

43Ca	1	10000	Standard
45Sc-KED	1	10000	Standard
45Sc-CCT	1	10000	
47Ti	1	10000	Standard
51V	1	10000	Standard
52Cr	1	10000	Standard
53Cl O	1	10000	Standard
54Fe	1	10000	Standard
55Mn	1	10000	Standard
59Co	1	10000	Standard
60Ni	1	10000	Standard
63Cu	1	10000	Standard
66Zn	1	10000	Standard
72Ge	1	10000	Standard
73Ge	1	10000	Standard
75As	1	50000	Standard
78Se	1	50000	Standard
83Kr	1	50000	Standard
88Sr	1	10000	Standard
89Y	1	10000	Standard
90Zr	1	10000	Standard
95Mo	1	10000	Standard
105Pd	1	10000	Standard
107Ag	1	10000	Standard
111Cd	1	10000	Standard
115In	1	10000	Standard
118Sn	1	10000	Standard
121Sb	1	10000	Standard
137Ba	1	10000	Standard
159Tb	1	10000	Standard
184W	1	10000	Standard
195Pt	1	10000	Standard
201Hg	1	10000	Standard
205Tl	1	10000	Standard
206Pb	1	10000	Standard
207Pb	1	10000	Standard
208Pb	1	10000	Standard
209Bi	1	10000	Standard
238U	1	10000	Standard

Instrument Configuration

Sample/Analyte Settings

Label	Config	7Li	9Be	10B	23Na	25Mg	27Al	28Si	31P	34S	35Cl
234056_10005_Cal0	4	7	7	7	8	8	8	8	8	8	8
234057_10005_Cal1	4	7	7	7	8	8	8	8	8	8	8
234058_10005_Cal2	4	7	7	7	8	8	8	8	8	8	8
234059_10005_Cal3	4	7	7	7	8	8	8	8	8	8	8
234060_10005_Cal4	4	7	7	7	8	8	8	8	8	8	8
234061_10005_Cal5	4	7	7	7	8	8	8	8	8	8	8
233143_10005_ICV	4	7	7	7	8	8	8	8	8	8	8
234056_10005_ICBTVA	4	7	7	7	8	8	8	8	8	8	8
234057_10005_CRDL_A1	4	7	7	7	8	8	8	8	8	8	8
234058_10005_CRDL_B1	4	7	7	7	8	8	8	8	8	8	8
234063_10005_ICSA1	4	7	7	7	8	8	8	8	8	8	8
234064_10005_ICSAB1	4	7	7	7	8	8	8	8	8	8	8
234062_10005_CCV1	4	7	7	7	8	8	8	8	8	8	8
234056_10005_CCBTVA1	4	7	7	7	8	8	8	8	8	8	8
40193369001_9996	4	7	7	7	8	8	8	8	8	8	8
1925395_9996	4	7	7	7	8	8	8	8	8	8	8
1925396_9996	4	7	7	7	8	8	8	8	8	8	8
1926315_9996	4	7	7	7	8	8	8	8	8	8	8
234062_10005_CCV2	4	7	7	7	8	8	8	8	8	8	8
234056_10005_CCBTVA2	4	7	7	7	8	8	8	8	8	8	8
234057_10005_CRDL_A2	4	7	7	7	8	8	8	8	8	8	8
234058_10005_CRDL_B2	4	7	7	7	8	8	8	8	8	8	8
234063_10005_ICSA2	4	7	7	7	8	8	8	8	8	8	8
234064_10005_ICSAB2	4	7	7	7	8	8	8	8	8	8	8
234062_10005_CCV3	4	7	7	7	8	8	8	8	8	8	8
234056_10005_CCBTVA3	4	7	7	7	8	8	8	8	8	8	8

Label	Config	39K	43Ca	45Sc-KED	45Sc-CCT	47Ti	51V	52Cr	53Cl O	54Fe	55Mn

234056_10005_Cal0	4	8	8	8	7	8	8	8	8	8	8
234057_10005_Cal1	4	8	8	8	7	8	8	8	8	8	8
234058_10005_Cal2	4	8	8	8	7	8	8	8	8	8	8
234059_10005_Cal3	4	8	8	8	7	8	8	8	8	8	8
234060_10005_Cal4	4	8	8	8	7	8	8	8	8	8	8
234061_10005_Cal5	4	8	8	8	7	8	8	8	8	8	8
233143_10005_ICV	4	8	8	8	7	8	8	8	8	8	8
234056_10005_ICBTVA	4	8	8	8	7	8	8	8	8	8	8
234057_10005_CRDL_A1	4	8	8	8	7	8	8	8	8	8	8
234058_10005_CRDL_B1	4	8	8	8	7	8	8	8	8	8	8
234063_10005_ICSA1	4	8	8	8	7	8	8	8	8	8	8
234064_10005_ICSAB1	4	8	8	8	7	8	8	8	8	8	8
234062_10005_CCV1	4	8	8	8	7	8	8	8	8	8	8
234056_10005_CCBTVA1	4	8	8	8	7	8	8	8	8	8	8
40193369001_9996	4	8	8	8	7	8	8	8	8	8	8
1925395_9996	4	8	8	8	7	8	8	8	8	8	8
1925396_9996	4	8	8	8	7	8	8	8	8	8	8
1926315_9996	4	8	8	8	7	8	8	8	8	8	8
234062_10005_CCV2	4	8	8	8	7	8	8	8	8	8	8
234056_10005_CCBTVA2	4	8	8	8	7	8	8	8	8	8	8
234057_10005_CRDL_A2	4	8	8	8	7	8	8	8	8	8	8
234058_10005_CRDL_B2	4	8	8	8	7	8	8	8	8	8	8
234063_10005_ICSA2	4	8	8	8	7	8	8	8	8	8	8
234064_10005_ICSAB2	4	8	8	8	7	8	8	8	8	8	8
234062_10005_CCV3	4	8	8	8	7	8	8	8	8	8	8
234056_10005_CCBTVA3	4	8	8	8	7	8	8	8	8	8	8

Label	Config	59Co	60Ni	63Cu	66Zn	72Ge	73Ge	75As	78Se	83Kr	88Sr
234056_10005_Cal0	4	8	8	8	8	8	8	8	8	8	8
234057_10005_Cal1	4	8	8	8	8	8	8	8	8	8	8
234058_10005_Cal2	4	8	8	8	8	8	8	8	8	8	8
234059_10005_Cal3	4	8	8	8	8	8	8	8	8	8	8
234060_10005_Cal4	4	8	8	8	8	8	8	8	8	8	8
234061_10005_Cal5	4	8	8	8	8	8	8	8	8	8	8
233143_10005_ICV	4	8	8	8	8	8	8	8	8	8	8
234056_10005_ICBTVA	4	8	8	8	8	8	8	8	8	8	8
234057_10005_CRDL_A1	4	8	8	8	8	8	8	8	8	8	8
234058_10005_CRDL_B1	4	8	8	8	8	8	8	8	8	8	8
234063_10005_ICSA1	4	8	8	8	8	8	8	8	8	8	8
234064_10005_ICSAB1	4	8	8	8	8	8	8	8	8	8	8
234062_10005_CCV1	4	8	8	8	8	8	8	8	8	8	8
234056_10005_CCBTVA1	4	8	8	8	8	8	8	8	8	8	8
40193369001_9996	4	8	8	8	8	8	8	8	8	8	8
1925395_9996	4	8	8	8	8	8	8	8	8	8	8
1925396_9996	4	8	8	8	8	8	8	8	8	8	8
1926315_9996	4	8	8	8	8	8	8	8	8	8	8
234062_10005_CCV2	4	8	8	8	8	8	8	8	8	8	8
234056_10005_CCBTVA2	4	8	8	8	8	8	8	8	8	8	8
234057_10005_CRDL_A2	4	8	8	8	8	8	8	8	8	8	8
234058_10005_CRDL_B2	4	8	8	8	8	8	8	8	8	8	8
234063_10005_ICSA2	4	8	8	8	8	8	8	8	8	8	8
234064_10005_ICSAB2	4	8	8	8	8	8	8	8	8	8	8
234062_10005_CCV3	4	8	8	8	8	8	8	8	8	8	8
234056_10005_CCBTVA3	4	8	8	8	8	8	8	8	8	8	8

Label	Config	89Y	90Zr	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba
234056_10005_Cal0	4	8	8	8	8	8	8	8	8	8	8
234057_10005_Cal1	4	8	8	8	8	8	8	8	8	8	8
234058_10005_Cal2	4	8	8	8	8	8	8	8	8	8	8
234059_10005_Cal3	4	8	8	8	8	8	8	8	8	8	8
234060_10005_Cal4	4	8	8	8	8	8	8	8	8	8	8
234061_10005_Cal5	4	8	8	8	8	8	8	8	8	8	8
233143_10005_ICV	4	8	8	8	8	8	8	8	8	8	8
234056_10005_ICBTVA	4	8	8	8	8	8	8	8	8	8	8
234057_10005_CRDL_A1	4	8	8	8	8	8	8	8	8	8	8
234058_10005_CRDL_B1	4	8	8	8	8	8	8	8	8	8	8
234063_10005_ICSA1	4	8	8	8	8	8	8	8	8	8	8
234064_10005_ICSAB1	4	8	8	8	8	8	8	8	8	8	8
234062_10005_CCV1	4	8	8	8	8	8	8	8	8	8	8
234056_10005_CCBTVA1	4	8	8	8	8	8	8	8	8	8	8
40193369001_9996	4	8	8	8	8	8	8	8	8	8	8
1925395_9996	4	8	8	8	8	8	8	8	8	8	8

1925396_9996	4	8	8	8	8	8	8	8	8	8	8
1926315_9996	4	8	8	8	8	8	8	8	8	8	8
234062_10005_CCV2	4	8	8	8	8	8	8	8	8	8	8
234056_10005_CCBTVA2	4	8	8	8	8	8	8	8	8	8	8
234057_10005_CRDL_A2	4	8	8	8	8	8	8	8	8	8	8
234058_10005_CRDL_B2	4	8	8	8	8	8	8	8	8	8	8
234063_10005_ICSA2	4	8	8	8	8	8	8	8	8	8	8
234064_10005_ICSAB2	4	8	8	8	8	8	8	8	8	8	8
234062_10005_CCV3	4	8	8	8	8	8	8	8	8	8	8
234056_10005_CCBTVA3	4	8	8	8	8	8	8	8	8	8	8
Label	**Config**	**159Tb**	**184W**	**195Pt**	**201Hg**	**205Tl**	**206Pb**	**207Pb**	**208Pb**	**209Bi**	**238U**
234056_10005_Cal0	4	8	8	8	8	8	8	8	8	8	8
234057_10005_Cal1	4	8	8	8	8	8	8	8	8	8	8
234058_10005_Cal2	4	8	8	8	8	8	8	8	8	8	8
234059_10005_Cal3	4	8	8	8	8	8	8	8	8	8	8
234060_10005_Cal4	4	8	8	8	8	8	8	8	8	8	8
234061_10005_Cal5	4	8	8	8	8	8	8	8	8	8	8
233143_10005_ICV	4	8	8	8	8	8	8	8	8	8	8
234056_10005_ICBTVA	4	8	8	8	8	8	8	8	8	8	8
234057_10005_CRDL_A1	4	8	8	8	8	8	8	8	8	8	8
234058_10005_CRDL_B1	4	8	8	8	8	8	8	8	8	8	8
234063_10005_ICSA1	4	8	8	8	8	8	8	8	8	8	8
234064_10005_ICSAB1	4	8	8	8	8	8	8	8	8	8	8
234062_10005_CCV1	4	8	8	8	8	8	8	8	8	8	8
234056_10005_CCBTVA1	4	8	8	8	8	8	8	8	8	8	8
40193369001_9996	4	8	8	8	8	8	8	8	8	8	8
1925395_9996	4	8	8	8	8	8	8	8	8	8	8
1925396_9996	4	8	8	8	8	8	8	8	8	8	8
1926315_9996	4	8	8	8	8	8	8	8	8	8	8
234062_10005_CCV2	4	8	8	8	8	8	8	8	8	8	8
234056_10005_CCBTVA2	4	8	8	8	8	8	8	8	8	8	8
234057_10005_CRDL_A2	4	8	8	8	8	8	8	8	8	8	8
234058_10005_CRDL_B2	4	8	8	8	8	8	8	8	8	8	8
234063_10005_ICSA2	4	8	8	8	8	8	8	8	8	8	8
234064_10005_ICSAB2	4	8	8	8	8	8	8	8	8	8	8
234062_10005_CCV3	4	8	8	8	8	8	8	8	8	8	8
234056_10005_CCBTVA3	4	8	8	8	8	8	8	8	8	8	8

Configuration 4 - CCT2

Minimum uptake 0
Maximum uptake 20
Minimum wash 80
Maximum wash 200

ACL Script

Title Fast uptake wash
Description Data acquisition using the peri pump at high speed for the washes and uptakes
Author paceuser
Version 1

Settings sets

Id	Description	Extraction	Lens 1	Lens 2	Lens 3	Pole Bias	Sampling Depth	Horizontal	Vertical	Cool	Auxiliary
7	CCT Mode 09032019	-169.00	-1130.00	-80.00	-195.30	-9.00	145.00	32.00	376.00	13.00	0.70
8	CCTKED Mode 09032019	-169.00	-1130.00	-80.00	-195.30	-17.00	145.00	32.00	376.00	13.00	0.70

Id	Description	Nebuliser	Forward power	D1	Focus	CCT Gas 1	CCT Gas 2	D2	DA	Hexapole Bias
7	CCT Mode 09032019	0.73	1400.00	-47.80	11.00	0.00	0.30	-143.00	-36.90	-4.00
8	CCTKED Mode 09032019	0.73	1400.00	-58.00	-6.50	0.00	3.70	-143.00	-36.90	-20.00

Fully Quantitative Concentrations

Id	Label	Li	Be	B	Na	Mg	Al	Si	P	K	Ca
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	234056_10005_Cal0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

2	234057_10005_Cal1	1.000	1.000		250.000	250.000	250.000	50.000	50.000	250.000	250.000
3	234058_10005_Cal2	5.000	5.000	5.000	500.000	500.000	500.000	250.000	250.000	500.000	500.000
4	234059_10005_Cal3	50.000	50.000	50.000	2500.000	2500.000	2500.000	2500.000	2500.000	2500.000	2500.000
5	234060_10005_Cal4	250.000	250.000	250.000	12500.000	12500.000	12500.000	12500.000	12500.000	12500.000	12500.000
6	234061_10005_Cal5	500.000	500.000	500.000	25000.000	25000.000	25000.000	25000.000	25000.000	25000.000	25000.000
Id	**Label**	**Ti**	**V**	**Cr**	**Mn**	**Fe**	**Co**	**Ni**	**Cu**	**Zn**	**As**
		ppb	**ppb**	**ppb**	**ppb**	**ppb**	**ppb**	**ppb**	**ppb**	**ppb**	**ppb**
1	234056_10005_Cal0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2	234057_10005_Cal1	1.000	1.000	1.000	1.000	250.000	1.000	1.000	1.000		1.000
3	234058_10005_Cal2	5.000	5.000	5.000	5.000	500.000	5.000	5.000	5.000	5.000	5.000
4	234059_10005_Cal3	50.000	50.000	50.000	50.000	2500.000	50.000	50.000	50.000	50.000	50.000
5	234060_10005_Cal4	250.000	250.000	250.000	250.000	12500.000	250.000	250.000	250.000	250.000	250.000
6	234061_10005_Cal5	500.000	500.000	500.000	500.000	25000.000	500.000	500.000	500.000	500.000	500.000
Id	**Label**	**Se**	**Sr**	**Zr**	**Mo**	**Pd**	**Ag**	**Cd**	**Sn**	**Sb**	**Ba**
		ppb	**ppb**	**ppb**	**ppb**	**ppb**	**ppb**	**ppb**	**ppb**	**ppb**	**ppb**
1	234056_10005_Cal0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2	234057_10005_Cal1	1.000	1.000	1.000	1.000	1.000	0.500	1.000	1.000	1.000	1.000
3	234058_10005_Cal2	5.000	5.000	5.000	5.000	5.000	2.500	5.000	5.000	5.000	5.000
4	234059_10005_Cal3	50.000	50.000	50.000	50.000	50.000	25.000	50.000	50.000	50.000	50.000
5	234060_10005_Cal4	250.000	250.000	250.000	250.000	250.000	125.000	250.000	250.000	250.000	250.000
6	234061_10005_Cal5	500.000	500.000	500.000	500.000	500.000	250.000	500.000	500.000	500.000	500.000
Id	**Label**	**Pt**	**Hg**	**Tl**	**Pb**	**U**					
		ppb	**ppb**	**ppb**	**ppb**	**ppb**					
1	234056_10005_Cal0	0.000	0.000	0.000	0.000	0.000					
2	234057_10005_Cal1	1.000	0.200	1.000	1.000	1.000					
3	234058_10005_Cal2	5.000	0.500	5.000	5.000	5.000					
4	234059_10005_Cal3	50.000	1.000	50.000	50.000	50.000					
5	234060_10005_Cal4	250.000	10.000	250.000	250.000	250.000					
6	234061_10005_Cal5	500.000	25.000	500.000	500.000	500.000					

Calibration Technique

Use External Drift Correction - No
Calibrate by - Isotope

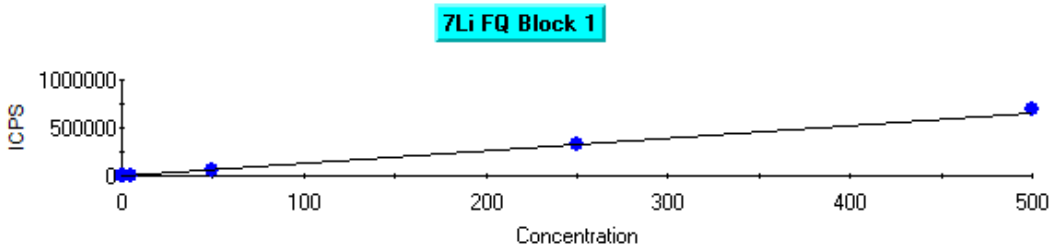
Symbol	Interference Correction	RSF	Calibration Method	Line Fit	Weighting	Forcing	Use for Semi-Quant	Max Error	Minimum Correlation
7Li	Yes	0.36	Fully-Quantified	Linear	Absolute SD	None	Yes		0.998000
9Be	Yes	0.07	Fully-Quantified	Linear	Absolute SD	None	Yes		0.998000
10B	Yes	0.13	Fully-Quantified	Linear	Absolute SD	None	Yes		0.998000
23Na	Yes	0.55	Fully-Quantified	Linear	Absolute SD	None	Yes		0.998000
25Mg	Yes	0.49	Fully-Quantified	Linear	Absolute SD	None	Yes		0.998000
27Al	Yes	0.45	Fully-Quantified	Linear	Absolute SD	None	Yes		0.998000
28Si	Yes	0.20	Fully-Quantified	Linear	Absolute SD	None	Yes		0.998000
31P	Yes	0.02	Fully-Quantified	Linear	Absolute SD	None	Yes		0.998000
34S	Yes	0.04	Semi-Quantified				No		
35Cl	Yes	0.00	Semi-Quantified				No		
39K	Yes	0.38	Fully-Quantified	Linear	Absolute SD	None	Yes		0.998000
43Ca	Yes	0.81	Fully-Quantified	Linear	Absolute SD	None	Yes		0.998000
45Sc-KED	Yes	0.60	None				No		
47Ti	Yes	0.38	Fully-Quantified	Linear	Absolute SD	None	Yes		0.998000
51V	Yes	0.39	Fully-Quantified	Linear	Absolute SD	None	Yes		0.998000
52Cr	Yes	0.46	Fully-Quantified	Linear	Absolute SD	None	Yes		0.998000
55Mn	Yes	0.70	Fully-Quantified	Linear	Absolute SD	None	Yes		0.998000
54Fe	Yes	0.60	Fully-Quantified	Linear	Absolute SD	None	Yes		0.998000
59Co	Yes	0.42	Fully-Quantified	Linear	Absolute SD	None	Yes		0.998000
60Ni	Yes	0.33	Fully-Quantified	Linear	Absolute SD	None	Yes		0.998000
63Cu	Yes	0.33	Fully-Quantified	Linear	Absolute SD	None	Yes		0.998000
66Zn	Yes	0.35	Fully-Quantified	Linear	Absolute SD	None	Yes		0.998000
72Ge	Yes	0.35	None				No		
73Ge	Yes	0.35	None				No		
75As	Yes	0.05	Fully-Quantified	Linear	Absolute SD	None	Yes		0.998000
78Se	Yes	0.07	Fully-Quantified	Linear	Absolute SD	None	Yes		0.998000
83Kr	Yes	0.00	None				No		
88Sr	Yes	0.66	Fully-Quantified	Linear	Absolute SD	None	Yes		0.998000
89Y	Yes	0.74	None				No		
90Zr	Yes	0.61	Fully-Quantified	Linear	Absolute SD	None	Yes		0.998000
95Mo	Yes	0.63	Fully-Quantified	Linear	Absolute SD	None	Yes		0.998000
105Pd	Yes	0.48	Fully-Quantified	Linear	Absolute SD	None	Yes		0.998000
107Ag	Yes	0.45	Fully-Quantified	Linear	Absolute SD	None	Yes		0.998000
111Cd	Yes	0.55	Fully-Quantified	Linear	Absolute SD	None	Yes		0.998000
115In	Yes	0.77	None				No		
118Sn	Yes	0.69	Fully-Quantified	Linear	Absolute SD	None	Yes		0.998000
121Sb	Yes	0.34	Fully-Quantified	Linear	Absolute SD	None	Yes		0.998000

137Ba	Yes	0.53	Fully-Quantified	Linear	Absolute SD	None	Yes	0.998000
159Tb	Yes	0.90	None				No	
184W	Yes	0.71	Semi-Quantified				No	
195Pt	Yes	0.30	Fully-Quantified	Linear	Absolute SD	None	Yes	0.998000
201Hg	Yes	0.06	Fully-Quantified	Linear	Absolute SD	None	Yes	0.998000
206Pb	Yes	0.55	Fully-Quantified	Linear	Absolute SD	None	Yes	0.998000
207Pb	Yes	0.55	Fully-Quantified	Linear	Absolute SD	None	Yes	0.998000
208Pb	Yes	0.55	Fully-Quantified	Linear	Absolute SD	None	Yes	0.998000
209Bi	Yes	0.45	None				No	
238U	Yes	0.65	Fully-Quantified	Linear	Absolute SD	None	Yes	0.998000
205Tl	Yes	0.58	Fully-Quantified	Linear	Absolute SD	None	Yes	0.998000
53Cl O	Yes		Semi-Quantified				No	
45Sc-CCT	Yes	0.60	None				No	

Sample List

No	Label	Type	Weight	Rack	Row	Col	Height
1	234056_10005_Cal0	Fully Quant Standard	1.000	0	1	8	144
2	234057_10005_Cal1	Fully Quant Standard	1.000	0	1	2	144
3	234058_10005_Cal2	Fully Quant Standard	1.000	0	1	3	144
4	234059_10005_Cal3	Fully Quant Standard	1.000	0	1	4	144
5	234060_10005_Cal4	Fully Quant Standard	1.000	0	1	5	144
6	234061_10005_Cal5	Fully Quant Standard	1.000	0	1	6	144
7	233143_10005_ICV	Unknown	1.000	1	1	1	144
8	234056_10005_ICBTVA	Unknown	1.000	0	1	8	144
9	234057_10005_CRDL_A1	Unknown	1.000	0	1	2	144
10	234058_10005_CRDL_B1	Unknown	1.000	0	1	3	144
11	234063_10005_ICSA1	Unknown	1.000	1	1	4	144
12	234064_10005_ICSAB1	Unknown	1.000	1	1	5	144
13	234062_10005_CCV1	Unknown	1.000	0	1	9	144
14	234056_10005_CCBTVA1	Unknown	1.000	0	1	10	144
15	40193369001_9996	Unknown	1.000	1	3	1	144
16	1925395_9996	Unknown	1.000	1	3	2	144
17	1925396_9996	Unknown	1.000	1	3	3	144
18	1926315_9996	Unknown	1.000	1	3	4	144
19	234062_10005_CCV2	Unknown	1.000	0	1	9	144
20	234056_10005_CCBTVA2	Unknown	1.000	0	1	10	144
21	234057_10005_CRDL_A2	Unknown	1.000	0	1	2	144
22	234058_10005_CRDL_B2	Unknown	1.000	0	1	3	144
23	234063_10005_ICSA2	Unknown	1.000	1	1	4	144
24	234064_10005_ICSAB2	Unknown	1.000	1	1	5	144
25	234062_10005_CCV3	Unknown	1.000	0	1	9	144
26	234056_10005_CCBTVA3	Unknown	1.000	0	1	10	144

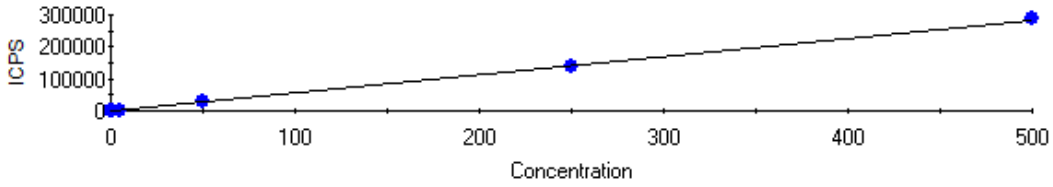
Fully Quant Calibration



Intercept CPS=18.562954 Intercept Conc=0.014266
Sensitivity=1301.219718 Correlation Coeff=0.999739

Label	Defined	Measured	Error	Mean CPS	% Error
234056_10005_Cal0	0.000	0.015	0.015	37.77	0.00
234057_10005_Cal1	1.000	0.973	0.027	1284.01	2.75
234058_10005_Cal2	5.000	4.908	0.092	6404.88	1.84
234059_10005_Cal3	50.000	51.331	1.331	66811.54	2.66
234060_10005_Cal4	250.000	250.218	0.218	325607.55	0.09
234061_10005_Cal5	500.000	525.586	25.586	683921.37	5.12

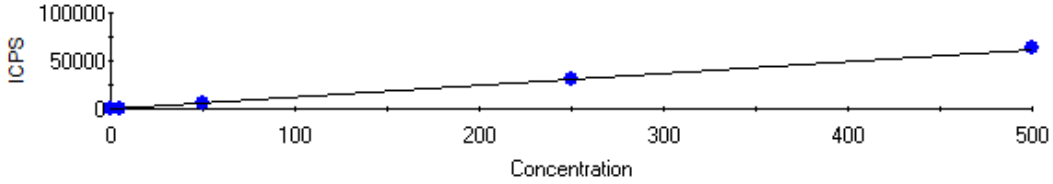
9Be FQ Block 1



Intercept CPS=15.815931 Intercept Conc=0.027974
Sensitivity=565.382317 Correlation Coeff=0.999945

Label	Defined	Measured	Error	Mean CPS	% Error
234056_10005_Cal0	0.000	-0.000	0.000	15.57	0.00
234057_10005_Cal1	1.000	1.016	0.016	590.44	1.63
234058_10005_Cal2	5.000	4.925	0.075	2800.58	1.49
234059_10005_Cal3	50.000	51.538	1.538	29154.72	3.08
234060_10005_Cal4	250.000	248.518	1.482	140523.54	0.59
234061_10005_Cal5	500.000	507.719	7.719	287071.22	1.54

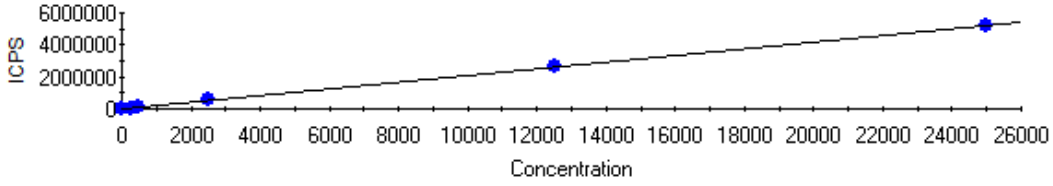
10B FQ Block 1



Intercept CPS=148.376517 Intercept Conc=1.205350
Sensitivity=123.098311 Correlation Coeff=0.999862

Label	Defined	Measured	Error	Mean CPS	% Error
234056_10005_Cal0	0.000	0.004	0.004	148.88	0.00
234058_10005_Cal2	5.000	4.974	0.026	760.64	0.52
234059_10005_Cal3	50.000	49.711	0.289	6267.77	0.58
234060_10005_Cal4	250.000	245.758	4.242	30400.78	1.70
234061_10005_Cal5	500.000	508.503	8.503	62744.25	1.70

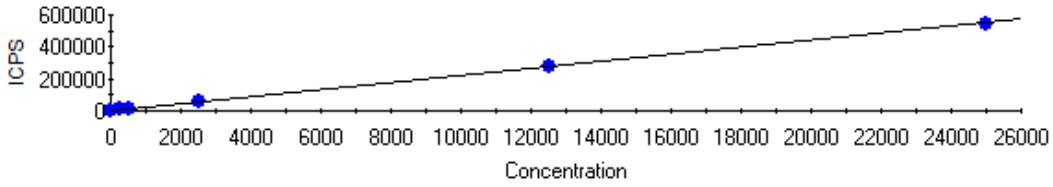
23Na FQ Block 1



Intercept CPS=1568.916412 Intercept Conc=7.574107
Sensitivity=207.142104 Correlation Coeff=0.999992

Label	Defined	Measured	Error	Mean CPS	% Error
234056_10005_Cal0	0.000	-0.029	0.029	1562.95	0.00
234057_10005_Cal1	250.000	251.086	1.086	53579.39	0.43
234058_10005_Cal2	500.000	507.632	7.632	106720.85	1.53
234059_10005_Cal3	2500.000	2512.549	12.549	522023.64	0.50
234060_10005_Cal4	12500.000	12571.499	71.499	2605655.77	0.57
234061_10005_Cal5	25000.000	24936.484	63.516	5166964.68	0.25

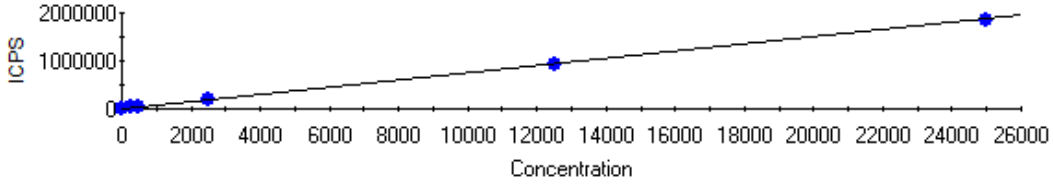
25Mg FQ Block 1



Intercept CPS=267.040705 Intercept Conc=12.031418
Sensitivity=22.195281 Correlation Coeff=0.999960

Label	Defined	Measured	Error	Mean CPS	% Error
234056_10005_Cal0	0.000	-0.346	0.346	259.36	0.00
234057_10005_Cal1	250.000	252.685	2.685	5875.46	1.07
234058_10005_Cal2	500.000	510.111	10.111	11589.10	2.02
234059_10005_Cal3	2500.000	2552.728	52.728	56925.56	2.11
234060_10005_Cal4	12500.000	12376.645	123.355	274970.16	0.99
234061_10005_Cal5	25000.000	24321.737	678.263	540094.82	2.71

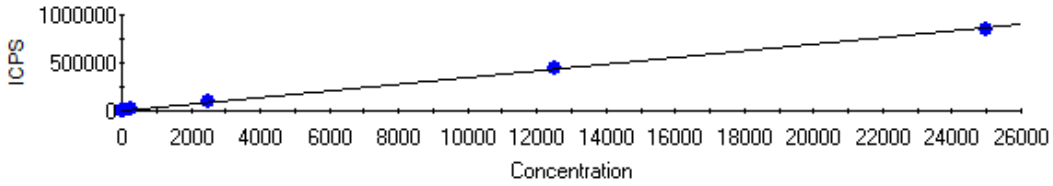
27Al FQ Block 1



Intercept CPS=506.112558 Intercept Conc=6.708254
Sensitivity=75.446247 Correlation Coeff=0.999970

Label	Defined	Measured	Error	Mean CPS	% Error
234056_10005_Cal0	0.000	-0.392	0.392	476.52	0.00
234057_10005_Cal1	250.000	255.262	5.262	19764.65	2.10
234058_10005_Cal2	500.000	514.533	14.533	39325.70	2.91
234059_10005_Cal3	2500.000	2546.704	46.704	192645.36	1.87
234060_10005_Cal4	12500.000	12314.778	185.222	929609.92	1.48
234061_10005_Cal5	25000.000	24266.197	733.803	1831299.60	2.94

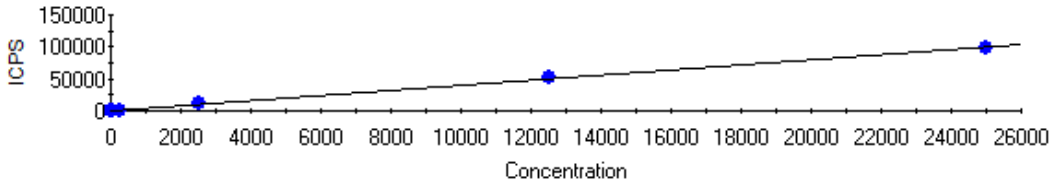
28Si FQ Block 1



Intercept CPS=541.816569 Intercept Conc=15.713502
Sensitivity=34.480955 Correlation Coeff=0.999685

Label	Defined	Measured	Error	Mean CPS	% Error
234056_10005_Cal0	0.000	-0.977	0.977	508.11	0.00
234057_10005_Cal1	50.000	58.871	8.871	2571.75	17.74
234058_10005_Cal2	250.000	285.060	35.060	10370.95	14.02
234059_10005_Cal3	2500.000	2730.496	230.496	94691.94	9.22
234060_10005_Cal4	12500.000	12876.984	376.984	444552.52	3.02
234061_10005_Cal5	25000.000	24493.869	506.131	845113.81	2.02

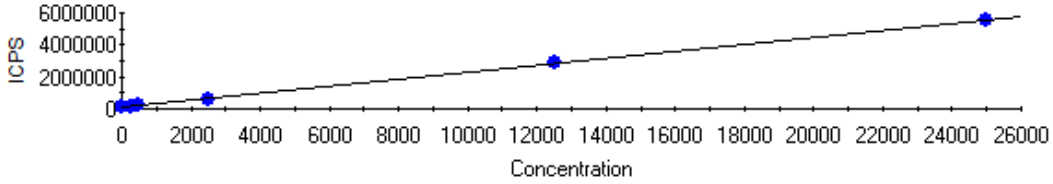
31P FQ Block 1



Intercept CPS=227.692957 Intercept Conc=56.598485
Sensitivity=4.022951 Correlation Coeff=0.999727

Label	Defined	Measured	Error	Mean CPS	% Error
234056_10005_Cal0	0.000	-0.618	0.618	225.21	0.00
234057_10005_Cal1	50.000	55.335	5.335	450.30	10.67
234058_10005_Cal2	250.000	274.864	24.864	1333.46	9.95
234059_10005_Cal3	2500.000	2701.536	201.536	11095.84	8.06
234060_10005_Cal4	12500.000	12634.796	134.796	51056.86	1.08
234061_10005_Cal5	25000.000	24137.498	862.502	97331.67	3.45

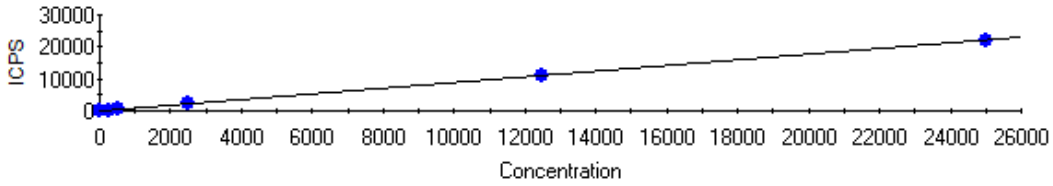
39K FQ Block 1



Intercept CPS=71358.619746 Intercept Conc=323.759813
Sensitivity=220.406045 Correlation Coeff=0.999997

Label	Defined	Measured	Error	Mean CPS	% Error
234056_10005_Cal0	0.000	2.224	2.224	71848.77	0.00
234057_10005_Cal1	250.000	248.456	1.544	126119.72	0.62
234058_10005_Cal2	500.000	512.890	12.890	184402.74	2.58
234059_10005_Cal3	2500.000	2549.907	49.907	633373.64	2.00
234060_10005_Cal4	12500.000	12524.585	24.585	2831852.91	0.20
234061_10005_Cal5	25000.000	24956.923	43.077	5572015.24	0.17

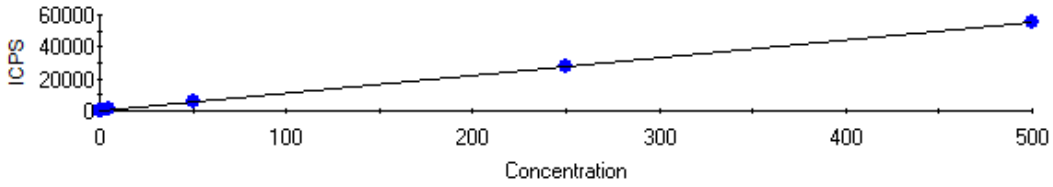
43Ca FQ Block 1



Intercept CPS=10.136879 Intercept Conc=11.506683
Sensitivity=0.880956 Correlation Coeff=0.999908

Label	Defined	Measured	Error	Mean CPS	% Error
234056_10005_Cal0	0.000	-1.388	1.388	8.91	0.00
234057_10005_Cal1	250.000	288.099	38.099	263.94	15.24
234058_10005_Cal2	500.000	536.442	36.442	482.72	7.29
234059_10005_Cal3	2500.000	2633.107	133.107	2329.79	5.32
234060_10005_Cal4	12500.000	12636.618	136.618	11142.44	1.09
234061_10005_Cal5	25000.000	24583.595	416.405	21667.20	1.67

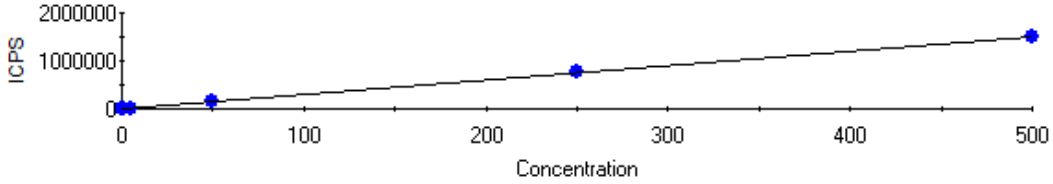
47Ti FQ Block 1



Intercept CPS=54.485715 Intercept Conc=0.490969
Sensitivity=110.975928 Correlation Coeff=0.999997

Label	Defined	Measured	Error	Mean CPS	% Error
234056_10005_Cal0	0.000	-0.062	0.062	47.57	0.00
234057_10005_Cal1	1.000	1.031	0.031	168.88	3.08
234058_10005_Cal2	5.000	4.872	0.128	595.19	2.55
234059_10005_Cal3	50.000	50.812	0.812	5693.40	1.62
234060_10005_Cal4	250.000	249.585	0.415	27752.47	0.17
234061_10005_Cal5	500.000	501.009	1.009	55654.42	0.20

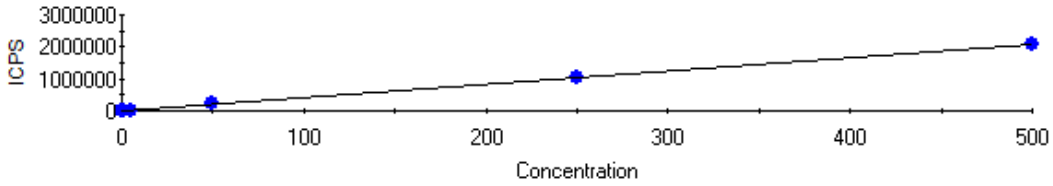
51V FQ Block 1



Intercept CPS=324.194066 Intercept Conc=0.107564
Sensitivity=3013.964868 Correlation Coeff=1.000000

Label	Defined	Measured	Error	Mean CPS	% Error
234056_10005_Cal0	0.000	-0.030	0.030	233.15	0.00
234057_10005_Cal1	1.000	0.996	0.004	3325.38	0.42
234058_10005_Cal2	5.000	5.038	0.038	15509.48	0.77
234059_10005_Cal3	50.000	50.159	0.159	151500.19	0.32
234060_10005_Cal4	250.000	249.785	0.215	753166.32	0.09
234061_10005_Cal5	500.000	498.776	1.224	1503616.32	0.24

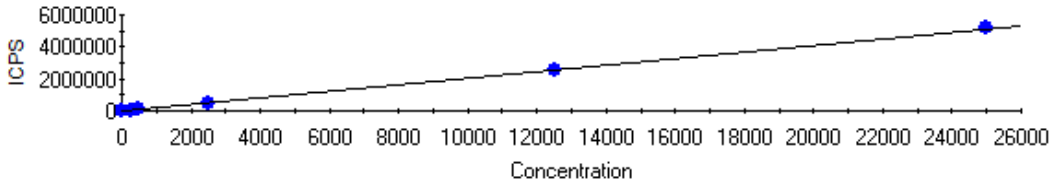
52Cr FQ Block 1



Intercept CPS=185.918697 Intercept Conc=0.045267
Sensitivity=4107.172562 Correlation Coeff=0.999998

Label	Defined	Measured	Error	Mean CPS	% Error
234056_10005_Cal0	0.000	0.001	0.001	188.17	0.00
234057_10005_Cal1	1.000	0.983	0.017	4221.72	1.74
234058_10005_Cal2	5.000	5.056	0.056	20952.26	1.12
234059_10005_Cal3	50.000	50.713	0.713	208472.59	1.43
234060_10005_Cal4	250.000	250.279	0.279	1028124.99	0.11
234061_10005_Cal5	500.000	498.997	1.003	2049652.07	0.20

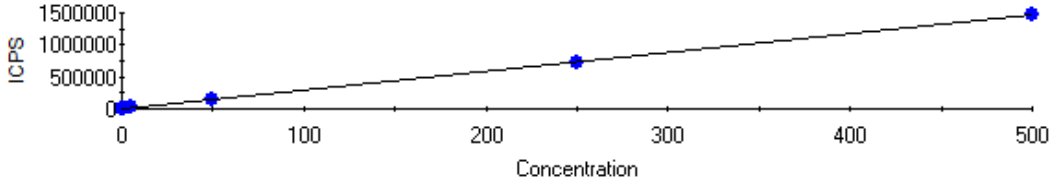
54Fe FQ Block 1



Intercept CPS=1749.425651 Intercept Conc=8.553240
Sensitivity=204.533679 Correlation Coeff=0.999995

Label	Defined	Measured	Error	Mean CPS	% Error
234056_10005_Cal0	0.000	0.229	0.229	1796.24	0.00
234057_10005_Cal1	250.000	246.255	3.745	52116.90	1.50
234058_10005_Cal2	500.000	503.378	3.378	104707.13	0.68
234059_10005_Cal3	2500.000	2515.273	15.273	516207.42	0.61
234060_10005_Cal4	12500.000	12498.835	1.165	2558182.12	0.01
234061_10005_Cal5	25000.000	25156.553	156.553	5147111.82	0.63

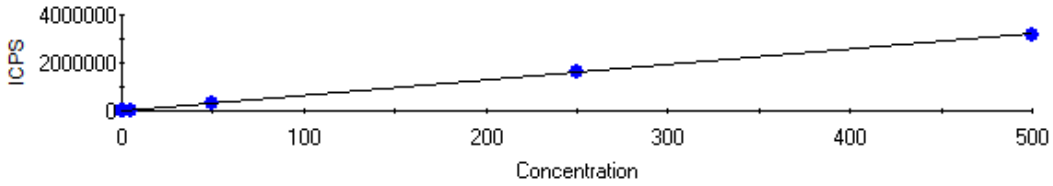
55Mn FQ Block 1



Intercept CPS=189.249853 Intercept Conc=0.064146
Sensitivity=2950.320495 Correlation Coeff=0.999997

Label	Defined	Measured	Error	Mean CPS	% Error
234056_10005_Cal0	0.000	-0.003	0.003	180.09	0.00
234057_10005_Cal1	1.000	1.011	0.011	3171.55	1.08
234058_10005_Cal2	5.000	5.033	0.033	15038.66	0.66
234059_10005_Cal3	50.000	50.088	0.088	147966.29	0.18
234060_10005_Cal4	250.000	248.722	1.278	733999.56	0.51
234061_10005_Cal5	500.000	500.062	0.062	1475532.69	0.01

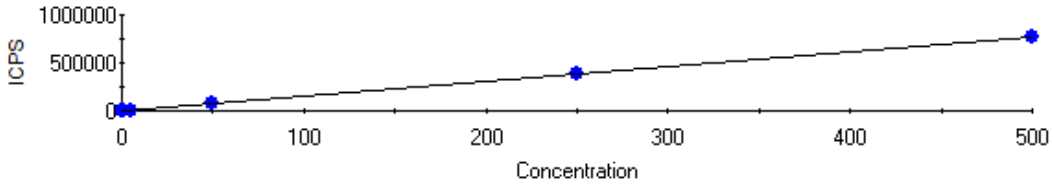
59Co FQ Block 1



Intercept CPS=191.230913 Intercept Conc=0.029755
Sensitivity=6426.846192 Correlation Coeff=0.999998

Label	Defined	Measured	Error	Mean CPS	% Error
234056_10005_Cal0	0.000	-0.000	0.000	190.46	0.00
234057_10005_Cal1	1.000	0.997	0.003	6599.29	0.29
234058_10005_Cal2	5.000	5.032	0.032	32529.50	0.63
234059_10005_Cal3	50.000	50.579	0.579	325252.54	1.16
234060_10005_Cal4	250.000	247.996	2.004	1594022.60	0.80
234061_10005_Cal5	500.000	496.505	3.495	3191151.73	0.70

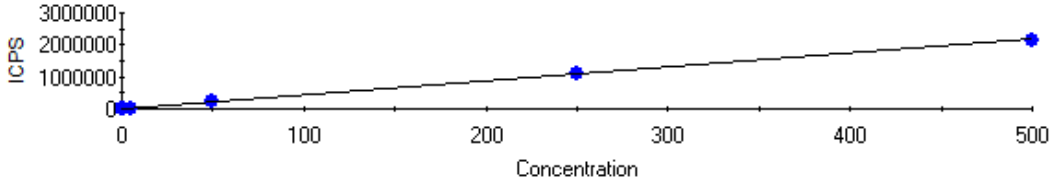
60Ni FQ Block 1



Intercept CPS=232.152967 Intercept Conc=0.150780
Sensitivity=1539.684014 Correlation Coeff=0.999971

Label	Defined	Measured	Error	Mean CPS	% Error
234056_10005_Cal0	0.000	-0.018	0.018	204.30	0.00
234057_10005_Cal1	1.000	1.029	0.029	1816.67	2.91
234058_10005_Cal2	5.000	5.251	0.251	8316.56	5.01
234059_10005_Cal3	50.000	51.887	1.887	80120.99	3.77
234060_10005_Cal4	250.000	250.501	0.501	385924.66	0.20
234061_10005_Cal5	500.000	494.051	5.949	760914.57	1.19

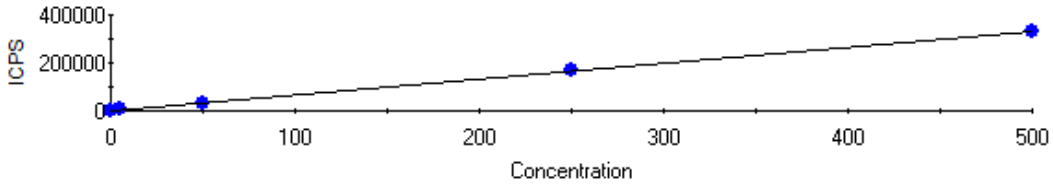
63Cu FQ Block 1



Intercept CPS=374.492841 Intercept Conc=0.084610
Sensitivity=4426.129397 Correlation Coeff=0.999967

Label	Defined	Measured	Error	Mean CPS	% Error
234056_10005_Cal0	0.000	-0.008	0.008	339.03	0.00
234057_10005_Cal1	1.000	1.027	0.027	4919.70	2.69
234058_10005_Cal2	5.000	5.119	0.119	23033.94	2.39
234059_10005_Cal3	50.000	50.811	0.811	225270.04	1.62
234060_10005_Cal4	250.000	245.609	4.391	1087471.45	1.76
234061_10005_Cal5	500.000	483.778	16.222	2141638.52	3.24

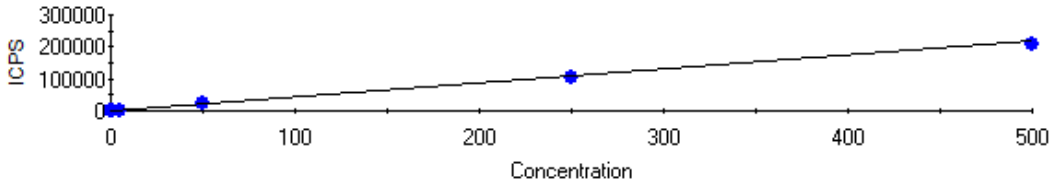
66Zn FQ Block 1



Intercept CPS=280.172172 Intercept Conc=0.422476
Sensitivity=663.166511 Correlation Coeff=0.999993

Label	Defined	Measured	Error	Mean CPS	% Error
234056_10005_Cal0	0.000	-0.046	0.046	249.45	0.00
234058_10005_Cal2	5.000	5.489	0.489	3920.40	9.78
234059_10005_Cal3	50.000	51.555	1.555	34470.04	3.11
234060_10005_Cal4	250.000	249.821	0.179	165953.02	0.07
234061_10005_Cal5	500.000	497.207	2.793	330011.14	0.56

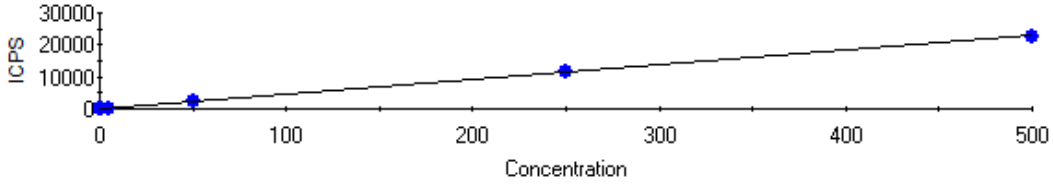
75As FQ Block 1



Intercept CPS=249.077426 Intercept Conc=0.569999
Sensitivity=436.978974 Correlation Coeff=0.999965

Label	Defined	Measured	Error	Mean CPS	% Error
234056_10005_Cal0	0.000	-0.011	0.011	244.33	0.00
234057_10005_Cal1	1.000	0.999	0.001	685.83	0.05
234058_10005_Cal2	5.000	5.158	0.158	2502.82	3.15
234059_10005_Cal3	50.000	50.457	0.457	22297.78	0.91
234060_10005_Cal4	250.000	243.587	6.413	106691.55	2.57
234061_10005_Cal5	500.000	479.567	20.433	209809.83	4.09

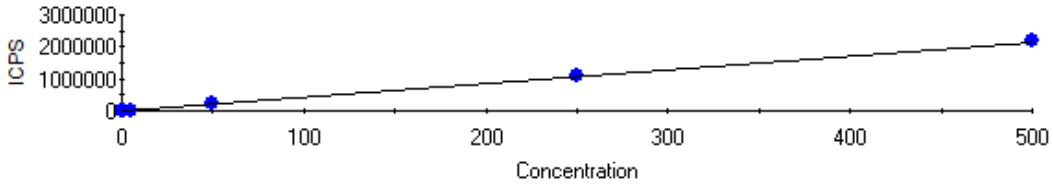
78Se FQ Block 1



Intercept CPS=13.978017 Intercept Conc=0.299566
Sensitivity=46.660949 Correlation Coeff=0.999904

Label	Defined	Measured	Error	Mean CPS	% Error
234056_10005_Cal0	0.000	-0.047	0.047	11.77	0.00
234057_10005_Cal1	1.000	1.005	0.005	60.87	0.50
234058_10005_Cal2	5.000	5.304	0.304	261.48	6.09
234059_10005_Cal3	50.000	52.003	2.003	2440.47	4.01
234060_10005_Cal4	250.000	248.785	1.215	11622.50	0.49
234061_10005_Cal5	500.000	484.270	15.730	22610.49	3.15

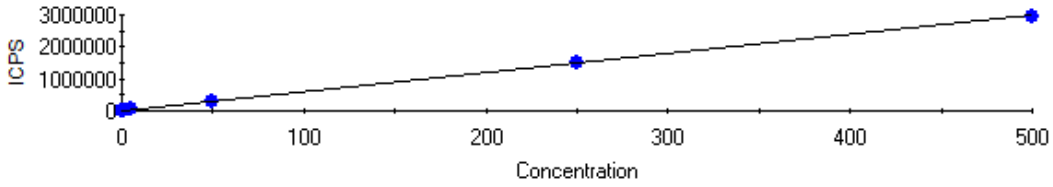
88Sr FQ Block 1



Intercept CPS=326.661900 Intercept Conc=0.075532
Sensitivity=4324.835422 Correlation Coeff=0.999981

Label	Defined	Measured	Error	Mean CPS	% Error
234056_10005_Cal0	0.000	0.001	0.001	331.10	0.00
234057_10005_Cal1	1.000	1.020	0.020	4738.15	2.00
234058_10005_Cal2	5.000	4.975	0.025	21844.63	0.49
234059_10005_Cal3	50.000	49.650	0.350	215053.52	0.70
234060_10005_Cal4	250.000	249.694	0.306	1080210.09	0.12
234061_10005_Cal5	500.000	505.879	5.879	2188172.19	1.18

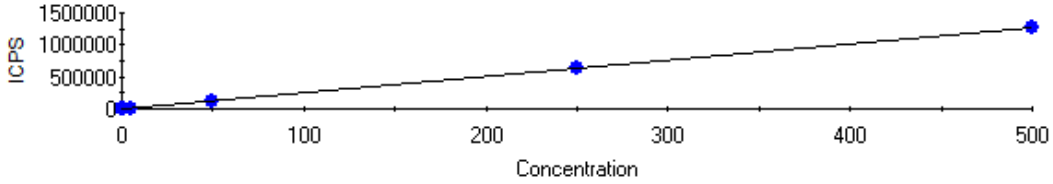
90Zr FQ Block 1



Intercept CPS=522.239268 Intercept Conc=0.087309
Sensitivity=5981.476553 Correlation Coeff=0.999998

Label	Defined	Measured	Error	Mean CPS	% Error
234056_10005_Cal0	0.000	-0.001	0.001	514.90	0.00
234057_10005_Cal1	1.000	0.991	0.009	6451.10	0.88
234058_10005_Cal2	5.000	5.090	0.090	30965.75	1.79
234059_10005_Cal3	50.000	50.374	0.374	301831.41	0.75
234060_10005_Cal4	250.000	249.215	0.785	1491193.51	0.31
234061_10005_Cal5	500.000	496.628	3.372	2971091.06	0.67

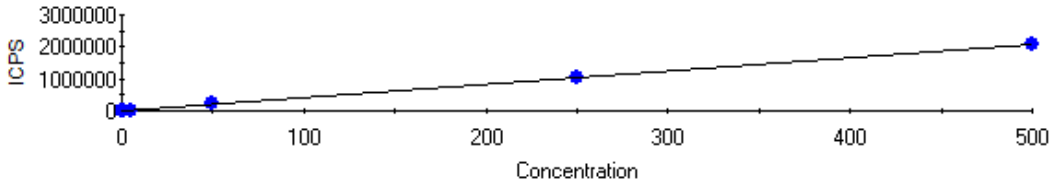
95Mo FQ Block 1



Intercept CPS=83.583023 Intercept Conc=0.033276
Sensitivity=2511.783588 Correlation Coeff=0.999984

Label	Defined	Measured	Error	Mean CPS	% Error
234056_10005_Cal0	0.000	-0.000	0.000	83.57	0.00
234057_10005_Cal1	1.000	1.004	0.004	2606.05	0.43
234058_10005_Cal2	5.000	4.957	0.043	12534.37	0.86
234059_10005_Cal3	50.000	49.595	0.405	124655.09	0.81
234060_10005_Cal4	250.000	247.592	2.408	621980.85	0.96
234061_10005_Cal5	500.000	501.118	1.118	1258784.55	0.22

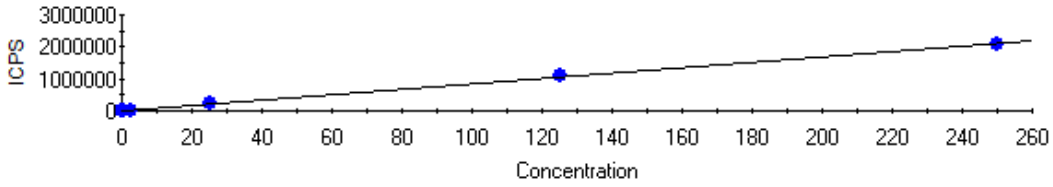
105Pd FQ Block 1



Intercept CPS=1373.918896 Intercept Conc=0.329721
Sensitivity=4166.913409 Correlation Coeff=0.999959

Label	Defined	Measured	Error	Mean CPS	% Error
234056_10005_Cal0	0.000	-0.005	0.005	1351.42	0.00
234057_10005_Cal1	1.000	1.010	0.010	5582.60	1.00
234058_10005_Cal2	5.000	5.273	0.273	23346.27	5.46
234059_10005_Cal3	50.000	51.748	1.748	217004.31	3.50
234060_10005_Cal4	250.000	251.576	1.576	1049669.29	0.63
234061_10005_Cal5	500.000	494.166	5.834	2060520.08	1.17

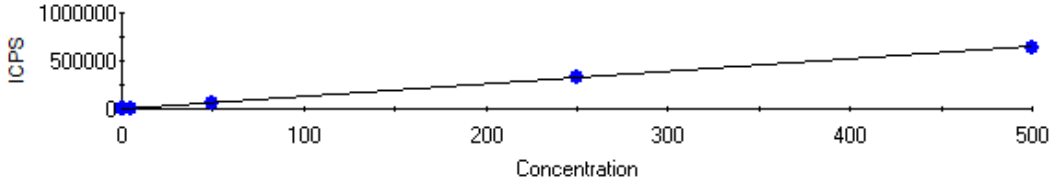
107Ag FQ Block 1



Intercept CPS=714.318894 Intercept Conc=0.084146
Sensitivity=8489.082441 Correlation Coeff=0.999925

Label	Defined	Measured	Error	Mean CPS	% Error
234056_10005_Cal0	0.000	-0.003	0.003	687.33	0.00
234057_10005_Cal1	0.500	0.525	0.025	5167.33	4.91
234058_10005_Cal2	2.500	2.614	0.114	22907.43	4.57
234059_10005_Cal3	25.000	26.133	1.133	222561.78	4.53
234060_10005_Cal4	125.000	126.203	1.203	1072059.44	0.96
234061_10005_Cal5	250.000	246.362	3.638	2092100.58	1.46

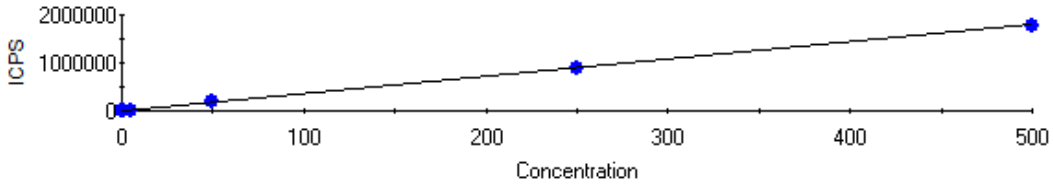
111Cd FQ Block 1



Intercept CPS=36.043637 Intercept Conc=0.027673
Sensitivity=1302.503475 Correlation Coeff=0.999943

Label	Defined	Measured	Error	Mean CPS	% Error
234056_10005_Cal0	0.000	-0.001	0.001	35.25	0.00
234057_10005_Cal1	1.000	1.009	0.009	1350.36	0.91
234058_10005_Cal2	5.000	5.058	0.058	6624.26	1.16
234059_10005_Cal3	50.000	51.527	1.527	67150.22	3.05
234060_10005_Cal4	250.000	249.061	0.939	324438.51	0.38
234061_10005_Cal5	500.000	487.804	12.196	635402.16	2.44

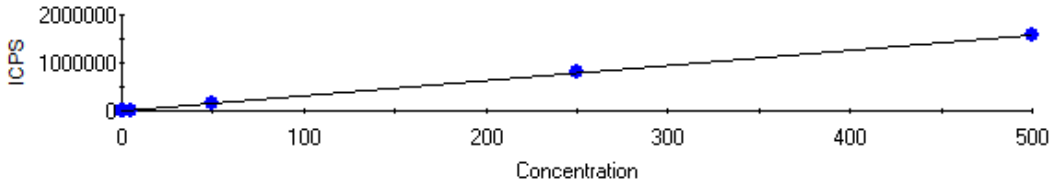
118Sn FQ Block 1



Intercept CPS=165.933498 Intercept Conc=0.046380
Sensitivity=3577.681719 Correlation Coeff=0.999998

Label	Defined	Measured	Error	Mean CPS	% Error
234056_10005_Cal0	0.000	0.000	0.000	167.48	0.00
234057_10005_Cal1	1.000	0.986	0.014	3693.90	1.39
234058_10005_Cal2	5.000	5.115	0.115	18466.64	2.30
234059_10005_Cal3	50.000	50.735	0.735	181680.71	1.47
234060_10005_Cal4	250.000	248.722	1.278	890012.62	0.51
234061_10005_Cal5	500.000	497.116	2.884	1778689.44	0.58

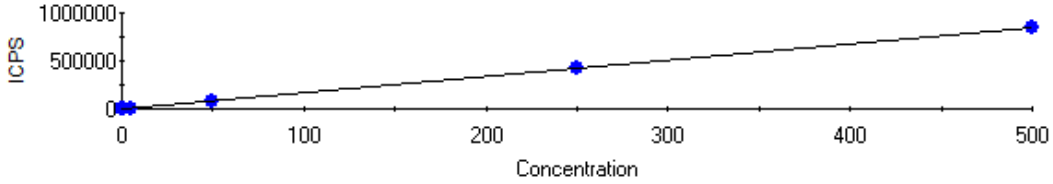
121Sb FQ Block 1



Intercept CPS=107.784093 Intercept Conc=0.033831
Sensitivity=3185.914954 Correlation Coeff=0.999934

Label	Defined	Measured	Error	Mean CPS	% Error
234056_10005_Cal0	0.000	-0.005	0.005	93.20	0.00
234057_10005_Cal1	1.000	1.015	0.015	3341.50	1.50
234058_10005_Cal2	5.000	5.176	0.176	16598.82	3.52
234059_10005_Cal3	50.000	51.504	1.504	164196.14	3.01
234060_10005_Cal4	250.000	251.388	1.388	801009.72	0.56
234061_10005_Cal5	500.000	491.207	8.793	1565051.03	1.76

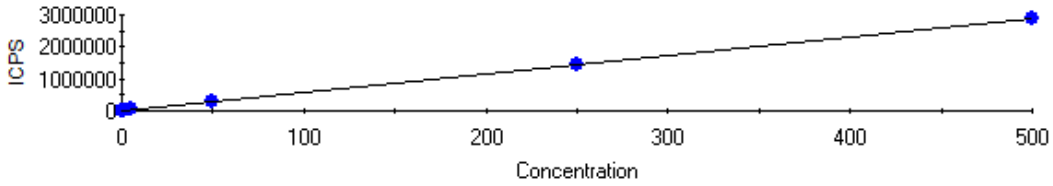
137Ba FQ Block 1



Intercept CPS=83.927767 Intercept Conc=0.049795
Sensitivity=1685.462054 Correlation Coeff=0.999999

Label	Defined	Measured	Error	Mean CPS	% Error
234056_10005_Cal0	0.000	-0.000	0.000	83.70	0.00
234057_10005_Cal1	1.000	1.004	0.004	1776.20	0.40
234058_10005_Cal2	5.000	4.979	0.021	8475.06	0.43
234059_10005_Cal3	50.000	50.214	0.214	84717.63	0.43
234060_10005_Cal4	250.000	249.839	0.161	421178.24	0.06
234061_10005_Cal5	500.000	498.358	1.642	840046.89	0.33

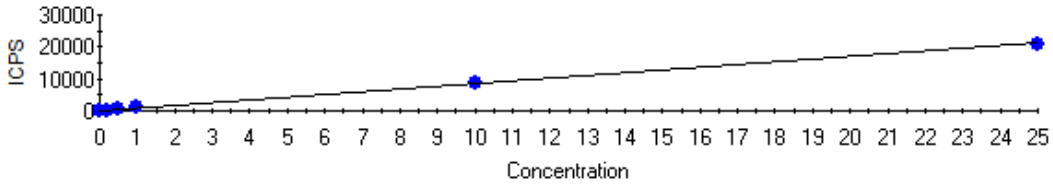
195Pt FQ Block 1



Intercept CPS=311.671646 Intercept Conc=0.053815
Sensitivity=5791.485213 Correlation Coeff=0.999988

Label	Defined	Measured	Error	Mean CPS	% Error
234056_10005_Cal0	0.000	0.002	0.002	325.25	0.00
234057_10005_Cal1	1.000	0.980	0.020	5986.64	2.01
234058_10005_Cal2	5.000	5.026	0.026	29421.13	0.53
234059_10005_Cal3	50.000	50.078	0.078	290337.97	0.16
234060_10005_Cal4	250.000	252.595	2.595	1463212.21	1.04
234061_10005_Cal5	500.000	499.976	0.024	2895916.30	0.00

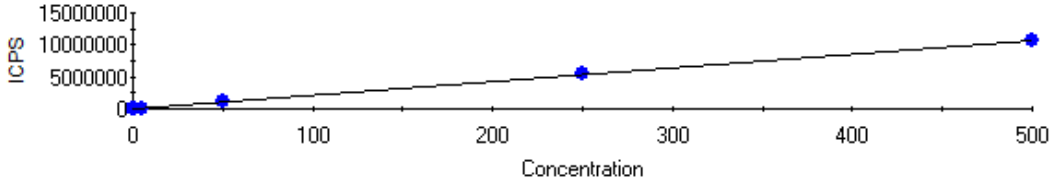
201Hg FQ Block 1



Intercept CPS=14.839516 Intercept Conc=0.017623
Sensitivity=842.038082 Correlation Coeff=0.999987

Label	Defined	Measured	Error	Mean CPS	% Error
234056_10005_Cal0	0.000	0.008	0.008	21.47	0.00
234057_10005_Cal1	0.200	0.191	0.009	176.03	4.29
234058_10005_Cal2	0.500	0.521	0.021	453.67	4.23
234059_10005_Cal3	1.000	1.043	0.043	892.78	4.26
234060_10005_Cal4	10.000	10.056	0.056	8482.35	0.56
234061_10005_Cal5	25.000	24.816	0.184	20910.61	0.74

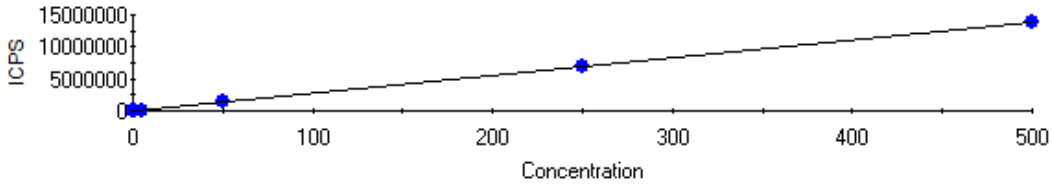
205Tl FQ Block 1



Intercept CPS=575.499834 Intercept Conc=0.026762
Sensitivity=21503.965453 Correlation Coeff=0.999997

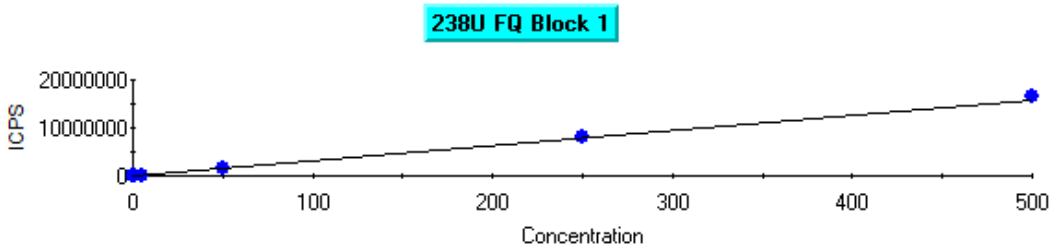
Label	Defined	Measured	Error	Mean CPS	% Error
234056_10005_Cal0	0.000	0.000	0.000	583.20	0.00
234057_10005_Cal1	1.000	0.977	0.023	21580.62	2.32
234058_10005_Cal2	5.000	4.978	0.022	107631.76	0.43
234059_10005_Cal3	50.000	49.418	0.582	1063265.29	1.16
234060_10005_Cal4	250.000	250.576	0.576	5388962.13	0.23
234061_10005_Cal5	500.000	498.977	1.023	10730556.13	0.20

208Pb FQ Block 1



Intercept CPS=684.013017 Intercept Conc=0.024586
Sensitivity=27821.667860 Correlation Coeff=0.999996

Label	Defined	Measured	Error	Mean CPS	% Error
234056_10005_Cal0	0.000	0.000	0.000	688.61	0.00
234057_10005_Cal1	1.000	0.997	0.003	28419.92	0.31
234058_10005_Cal2	5.000	5.062	0.062	141530.88	1.25
234059_10005_Cal3	50.000	49.914	0.086	1389381.72	0.17
234060_10005_Cal4	250.000	251.718	1.718	7003910.74	0.69
234061_10005_Cal5	500.000	500.490	0.490	13925160.62	0.10



Intercept CPS=605.127767 Intercept Conc=0.019250
Sensitivity=31435.290661 Correlation Coeff=0.999967

Label	Defined	Measured	Error	Mean CPS	% Error
234056_10005_Cal0	0.000	0.000	0.000	606.67	0.00
234057_10005_Cal1	1.000	0.970	0.030	31103.12	2.98
234058_10005_Cal2	5.000	4.968	0.032	156769.70	0.64
234059_10005_Cal3	50.000	49.847	0.153	1567547.78	0.31
234060_10005_Cal4	250.000	260.549	10.549	8191034.10	4.22
234061_10005_Cal5	500.000	528.890	28.890	16626412.01	5.78

Dilution Corrected Concentrations

234056_10005_Cal0 9/3/2019 2:50:09 PM

User Pre-dilution: 1.000

Run	Time	7Li	9Be	10B	23Na	25Mg	27Al	28Si	31P	34S	35Cl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:50:12	0.018	-0.000	0.012	-0.228	0.305	-0.134	-1.004	0.862	155.100	T 2047000.000
2	14:50:16	0.006	0.007	-0.049	0.205	-0.232	0.117	-1.489	-2.534	146.900	T 2023000.000
3	14:50:19	0.020	-0.008	0.049	-0.064	-1.111	-1.159	-0.440	-0.183	153.000	T 2018000.000
x		0.015	-0.000	0.004	-0.029	-0.346	-0.392	-0.978	-0.618	151.700	T 2029000.000
σ		0.007	0.008	0.050	0.219	0.715	0.676	0.525	1.740	4.295	T 15430.000
%RSD		50.190	1807.000	1224.000	758.100	206.400	172.300	53.690	281.400	2.832	T 0.760

Run	Time	39K	43Ca	45Sc-KED	45Sc-CCT	47Ti	51V	52Cr	53Cl O	54Fe	55Mn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:50:12	5.102	0.413	99.018%	99.319%	-0.172	-0.005	-0.009	6.075	0.083	-0.006
2	14:50:16	2.728	0.192	100.130%	99.953%	-0.016	-0.002	0.002	6.108	0.668	0.005
3	14:50:19	-1.158	-4.768	100.852%	100.727%	0.001	-0.083	0.009	6.409	-0.064	-0.008
x		2.224	-1.388	100.000%	100.000%	-0.062	-0.030	0.001	6.197	0.229	-0.003
σ		3.160	2.929	0.924%	0.705%	0.096	0.046	0.009	0.184	0.387	0.007
%RSD		142.100	211.100	0.924	0.705	153.200	152.100	1650.000	2.973	169.200	219.900

Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:50:12	0.008	-0.017	-0.017	-0.067	98.862%	0.001	-0.077	0.000	98.936%	0.005
2	14:50:16	-0.004	-0.033	-0.006	-0.077	100.875%	-0.021	-0.024	0.007	100.522%	-0.009
3	14:50:19	-0.004	-0.004	-0.001	0.005	100.264%	-0.012	-0.041	-0.004	100.543%	0.000
x		-0.000	-0.018	-0.008	-0.046	100.000%	-0.011	-0.047	0.001	100.000%	-0.001
σ		0.007	0.014	0.008	0.044	1.032%	0.011	0.027	0.006	0.922%	0.007
%RSD		5574.000	79.720	102.500	95.730	1.032	102.200	57.910	575.700	0.922	605.800

Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:50:12	0.001	0.003	0.002	-0.002	98.983%	0.006	-0.010	0.002	T 99.421%	0.007
2	14:50:16	-0.001	-0.006	-0.006	0.004	100.003%	-0.005	-0.003	-0.002	T 99.369%	-0.002
3	14:50:19	0.000	-0.013	-0.006	-0.004	101.015%	0.000	-0.001	-0.000	T 101.210%	0.002
x		-0.000	-0.005	-0.003	-0.001	100.000%	0.000	-0.005	-0.000	T 100.000%	0.002
σ		0.001	0.008	0.004	0.005	1.016%	0.006	0.005	0.002	T 1.048%	0.005
%RSD		17220.000	150.100	132.700	745.500	1.016	1355.000	104.100	1590.000	T 1.048	197.300

Run	Time	201Hg	205Tl	208Pb	209Bi	238U
		ppb	ppb	ppb	ppb	ppb
1	14:50:12	0.009	0.002	-0.003	99.103%	0.000
2	14:50:16	0.001	-0.000	0.003	100.073%	-0.000
3	14:50:19	0.014	-0.001	0.000	100.825%	0.000
x		0.008	0.000	0.000	100.000%	0.000
σ		0.007	0.002	0.003	0.863%	0.000
%RSD		82.910	497.500	1730.000	0.863	807.300

234057_10005_Cal1 9/3/2019 2:57:15 PM

User Pre-dilution: 1.000

Run	Time	7Li	9Be	10B	23Na	25Mg	27Al	28Si	31P	34S	35Cl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:57:19	0.957	0.939	1.477	253.200	257.700	258.800	56.780	50.790	152.200	T 2050000.000
2	14:57:23	0.971	1.017	1.388	249.600	247.400	254.500	60.130	48.700	134.400	T 2007000.000
3	14:57:27	0.990	1.093	1.352	250.400	252.900	252.400	59.700	66.510	150.400	T 2038000.000
x		0.973	1.016	1.406	251.100	252.700	255.300	58.870	55.330	145.700	T 2032000.000
σ		0.016	0.077	0.064	1.878	5.137	3.286	1.821	9.737	9.813	T 22330.000
%RSD		1.692	7.586	4.583	0.748	2.033	1.287	3.093	17.600	6.737	T 1.099

Run	Time	39K	43Ca	45Sc-KED	45Sc-CCT	47Ti	51V	52Cr	53Cl O	54Fe	55Mn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:57:19	250.900	307.900	98.244%	101.628%	1.072	1.008	0.950	6.007	247.000	1.011
2	14:57:23	246.700	283.900	100.201%	102.315%	0.964	1.006	1.005	5.582	244.500	0.994
3	14:57:27	247.800	272.500	100.509%	103.078%	1.056	0.974	0.993	5.891	247.200	1.028
x		248.500	288.100	99.652%	102.340%	1.031	0.996	0.983	5.827	246.300	1.011
σ		2.176	18.040	1.228%	0.725%	0.058	0.019	0.029	0.220	1.491	0.017
%RSD		0.876	6.261	1.233	0.709	5.650	1.922	2.916	3.769	0.606	1.702

Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:57:19	1.007	1.053	0.995	2.219	100.220%	0.994	1.005	1.006	99.559%	1.003
2	14:57:23	0.982	1.019	1.072	2.409	100.331%	1.020	0.992	1.010	100.418%	0.968
3	14:57:27	1.003	1.015	1.013	2.234	102.071%	0.985	1.018	1.044	100.493%	1.003
x		0.997	1.029	1.027	2.287	100.874%	1.000	1.005	1.020	100.157%	0.991
σ		0.014	0.021	0.040	0.106	1.038%	0.018	0.013	0.021	0.519%	0.020
%RSD		1.364	2.053	3.909	4.613	1.029	1.849	1.285	2.043	0.518	2.047

Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:57:19	1.006	1.031	0.545	1.075	101.197%	0.988	1.001	1.017	T 99.335%	0.965
2	14:57:23	0.985	1.014	0.513	1.016	102.386%	0.967	1.013	0.993	T 99.388%	0.989
3	14:57:27	1.021	0.984	0.516	0.937	103.045%	1.004	1.030	1.002	T 100.020%	0.986
x		1.004	1.010	0.525	1.009	102.209%	0.986	1.015	1.004	T 99.581%	0.980
σ		0.018	0.024	0.018	0.069	0.937%	0.018	0.015	0.012	T 0.381%	0.013
%RSD		1.780	2.355	3.407	6.860	0.916	1.851	1.448	1.177	T 0.383	1.331

Run	Time	201Hg	205Tl	208Pb	209Bi	238U
		ppb	ppb	ppb	ppb	ppb
1	14:57:19	0.189	0.960	0.986	99.518%	0.957
2	14:57:23	0.188	0.989	1.002	100.189%	0.976
3	14:57:27	0.197	0.982	1.003	101.049%	0.978
x		0.191	0.977	0.997	100.252%	0.970
σ		0.005	0.015	0.009	0.768%	0.012
%RSD		2.491	1.553	0.915	0.766	1.195

234058_10005_Cal2 9/3/2019 3:04:23 PM

User Pre-dilution: 1.000

Run	Time	7Li	9Be	10B	23Na	25Mg	27Al	28Si	31P	34S	35Cl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:04:27	4.902	4.880	4.790	506.000	508.300	504.900	283.700	258.600	148.800	T 2041000.000
2	15:04:31	4.889	5.131	4.345	503.300	506.400	516.500	277.300	294.100	157.900	T 2073000.000
3	15:04:35	4.933	4.765	5.786	513.600	515.500	522.200	294.200	271.900	140.200	T 2109000.000
x		4.908	4.925	4.974	507.600	510.100	514.500	285.100	274.900	149.000	T 2074000.000
σ		0.023	0.187	0.738	5.361	4.796	8.825	8.546	17.920	8.844	T 33890.000
%RSD		0.461	3.802	14.840	1.056	0.940	1.715	2.998	6.519	5.937	T 1.634

Run	Time	39K	43Ca	45Sc-KED	45Sc-CCT	47Ti	51V	52Cr	53Cl O	54Fe	55Mn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:04:27	499.000	503.300	97.447%	102.676%	4.624	5.072	4.980	6.214	494.100	5.039
2	15:04:31	510.600	574.900	97.515%	102.788%	4.981	5.047	5.041	6.344	504.700	4.997
3	15:04:35	529.000	531.100	96.518%	102.768%	5.012	4.996	5.147	6.612	511.300	5.063
x		512.900	536.400	97.160%	102.744%	4.872	5.038	5.056	6.390	503.400	5.033
σ		15.140	36.050	0.557%	0.060%	0.216	0.039	0.084	0.203	8.634	0.033
%RSD		2.952	6.721	0.573	0.058	4.424	0.766	1.668	3.175	1.715	0.663

Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:04:27	4.960	5.290	5.160	5.455	97.768%	5.112	5.279	4.959	97.983%	5.061
2	15:04:31	5.081	5.116	5.063	5.346	99.294%	5.197	5.220	4.969	98.737%	5.062
3	15:04:35	5.054	5.346	5.135	5.667	99.762%	5.163	5.415	4.998	98.315%	5.146
x		5.032	5.251	5.119	5.489	98.941%	5.158	5.304	4.975	98.345%	5.090
σ		0.063	0.120	0.050	0.163	1.043%	0.043	0.100	0.020	0.378%	0.049
%RSD		1.259	2.280	0.977	2.970	1.054	0.835	1.885	0.399	0.384	0.959

Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:04:27	4.873	5.126	2.552	4.918	99.499%	5.009	5.161	4.955	T 98.152%	5.065
2	15:04:31	4.892	5.288	2.622	5.065	99.785%	5.143	5.146	4.878	T 98.322%	4.957
3	15:04:35	5.106	5.405	2.669	5.191	100.681%	5.195	5.221	5.103	T 97.766%	5.056
x		4.957	5.273	2.614	5.058	99.988%	5.115	5.176	4.979	T 98.080%	5.026
σ		0.129	0.140	0.059	0.137	0.616%	0.096	0.039	0.114	T 0.285%	0.060
%RSD		2.606	2.656	2.259	2.703	0.616	1.874	0.761	2.299	T 0.290	1.190

Run	Time	201Hg	205Tl	208Pb	209Bi	238U
		ppb	ppb	ppb	ppb	ppb
1	15:04:27	0.533	4.960	5.048	98.291%	4.954
2	15:04:31	0.468	4.930	5.017	99.693%	4.954
3	15:04:35	0.563	5.046	5.122	99.968%	4.996
x		0.521	4.978	5.062	99.318%	4.968
σ		0.048	0.060	0.054	0.899%	0.024
%RSD		9.295	1.205	1.059	0.906	0.487

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User Pre-dilution: 1.000

Run	Time	7Li	9Be	10B	23Na	25Mg	27Al	28Si	31P	34S	35Cl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:11:36	51.030	52.040	49.750	2498.000	2561.000	2557.000	2734.000	2692.000	141.800	T 2080000.000
2	15:11:40	51.240	51.280	49.280	2498.000	2532.000	2530.000	2706.000	2632.000	147.400	T 2063000.000
3	15:11:44	51.720	51.290	50.100	2541.000	2565.000	2553.000	2752.000	2780.000	137.700	T 2092000.000
x		51.330	51.540	49.710	2513.000	2553.000	2547.000	2730.000	2702.000	142.300	T 2078000.000
σ		0.350	0.437	0.411	24.970	17.790	14.550	23.070	74.560	4.872	T 14270.000
%RSD		0.682	0.848	0.826	0.994	0.697	0.571	0.845	2.760	3.423	T 0.687

Run	Time	39K	43Ca	45Sc-KED	45Sc-CCT	47Ti	51V	52Cr	53Cl O	54Fe	55Mn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:11:36	2541.000	2729.000	93.488%	96.928%	49.820	49.750	50.530	13.890	2518.000	50.190
2	15:11:40	2523.000	2613.000	94.597%	97.641%	50.640	49.970	50.540	11.770	2502.000	49.790
3	15:11:44	2586.000	2557.000	93.240%	97.491%	51.980	50.760	51.070	12.350	2526.000	50.280
x		2550.000	2633.000	93.775%	97.353%	50.810	50.160	50.710	12.670	2515.000	50.090
σ		32.260	87.990	0.723%	0.376%	1.090	0.534	0.313	1.094	11.920	0.262
%RSD		1.265	3.342	0.771	0.386	2.146	1.065	0.616	8.636	0.474	0.523

Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:11:36	50.820	51.210	50.870	51.050	94.546%	50.670	51.200	49.570	95.232%	50.400
2	15:11:40	50.410	51.830	50.880	52.060	95.637%	50.170	52.700	49.540	95.517%	50.580
3	15:11:44	50.510	52.620	50.680	51.560	96.539%	50.530	52.100	49.840	96.275%	50.140
x		50.580	51.890	50.810	51.560	95.574%	50.460	52.000	49.650	95.675%	50.370
σ		0.214	0.708	0.111	0.507	0.998%	0.255	0.754	0.164	0.539%	0.220
%RSD		0.422	1.365	0.218	0.984	1.044	0.506	1.449	0.330	0.563	0.437

Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:11:36	49.750	51.650	26.100	51.270	98.081%	50.820	51.590	50.510	91.956%	50.240
2	15:11:40	50.100	51.950	26.270	51.740	99.864%	50.510	51.200	50.150	T 96.553%	49.740
3	15:11:44	48.940	51.650	26.030	51.570	99.560%	50.870	51.730	49.980	94.468%	50.250
x		49.590	51.750	26.130	51.530	99.168%	50.740	51.500	50.210	T 94.326%	50.080
σ		0.592	0.178	0.124	0.236	0.954%	0.198	0.276	0.270	T 2.301%	0.296
%RSD		1.194	0.345	0.476	0.458	0.962	0.390	0.536	0.537	T 2.440	0.591

Run	Time	201Hg	205Tl	208Pb	209Bi	238U
		ppb	ppb	ppb	ppb	ppb
1	15:11:36	1.030	49.210	49.860	99.189%	49.790
2	15:11:40	1.037	49.710	50.060	101.074%	49.910
3	15:11:44	1.060	49.340	49.830	101.912%	49.840
x		1.043	49.420	49.910	100.725%	49.850
σ		0.016	0.264	0.124	1.395%	0.060
%RSD		1.492	0.534	0.249	1.385	0.120

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User Pre-dilution: 1.000

Run	Time	7Li	9Be	10B	23Na	25Mg	27Al	28Si	31P	34S	35Cl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:18:44	250.200	248.200	249.000	T 12520.000	12230.000	12190.000	12780.000	12590.000	123.200	T 2290000.000
2	15:18:48	250.700	249.500	238.300	T 12590.000	12410.000	12310.000	12850.000	12670.000	123.800	T 2276000.000
3	15:18:52	249.800	247.900	250.000	T 12600.000	12490.000	12450.000	13000.000	12640.000	139.300	T 2301000.000
x		250.200	248.500	245.800	T 12570.000	12380.000	12310.000	12880.000	12630.000	128.800	T 2289000.000
σ		0.439	0.894	6.505	T 41.710	133.000	132.900	111.600	41.650	9.142	T 12700.000
%RSD		0.175	0.360	2.647	T 0.332	1.074	1.079	0.867	0.330	7.098	T 0.555

Run	Time	39K	43Ca	45Sc-KED	45Sc-CCT	47Ti	51V	52Cr	53Cl O	54Fe	55Mn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:18:44	12480.000	12490.000	86.868%	91.739%	249.600	249.700	249.100	38.810	12440.000	247.500
2	15:18:48	T 12480.000	12800.000	85.303%	90.789%	248.300	248.600	249.600	44.320	12490.000	249.600
3	15:18:52	T 12610.000	12620.000	83.244%	91.137%	250.800	251.000	252.100	38.800	12560.000	249.100
x		T 12520.000	12640.000	85.138%	91.222%	249.600	249.800	250.300	40.640	12500.000	248.700
σ		T 76.280	153.900	1.817%	0.480%	1.283	1.188	1.628	3.187	61.160	1.113
%RSD		T 0.609	1.218	2.134	0.527	0.514	0.476	0.650	7.842	0.489	0.447

Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:18:44	246.900	250.300	245.700	249.500	87.147%	242.900	249.900	249.600	88.658%	248.600
2	15:18:48	249.200	251.000	246.200	250.900	85.795%	245.700	249.000	249.500	87.590%	250.100
3	15:18:52	247.900	250.100	244.900	249.000	85.518%	242.200	247.500	250.000	86.777%	249.000
x		248.000	250.500	245.600	249.800	86.153%	243.600	248.800	249.700	87.675%	249.200
σ		1.128	0.458	0.696	0.953	0.872%	1.869	1.196	0.267	0.943%	0.790
%RSD		0.455	0.183	0.283	0.381	1.012	0.767	0.481	0.107	1.076	0.317

Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:18:44	248.200	251.100	125.800	247.600	93.763%	249.300	251.900	249.800	89.677%	250.700
2	15:18:48	246.400	252.500	126.600	251.000	93.076%	247.200	250.700	250.800	89.773%	253.600
3	15:18:52	248.200	251.100	126.200	248.600	92.521%	249.700	251.500	248.900	89.821%	253.500
x		247.600	251.600	126.200	249.100	93.120%	248.700	251.400	249.800	89.757%	252.600
σ		0.994	0.795	0.410	1.773	0.622%	1.336	0.580	0.940	0.074%	1.634
%RSD		0.401	0.316	0.325	0.712	0.668	0.537	0.231	0.376	0.082	0.647

Run	Time	201Hg	205Tl	208Pb	209Bi	238U
		ppb	ppb	ppb	ppb	ppb
1	15:18:44	10.020	T 250.100	T 249.500	T 97.182%	T 258.600
2	15:18:48	10.030	T 251.100	T 252.400	T 96.310%	T 262.100
3	15:18:52	10.120	T 250.600	T 253.200	T 95.862%	T 260.900
x		10.060	T 250.600	T 251.700	T 96.451%	T 260.500
σ		0.054	T 0.496	T 1.991	T 0.671%	T 1.774
%RSD		0.539	T 0.198	T 0.791	T 0.696	T 0.681

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User Pre-dilution: 1.000

Run	Time	7Li	9Be	10B	23Na	25Mg	27Al	28Si	31P	34S	35Cl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:25:54	M 522.600	M 507.200	M 507.500	T 24980.000	24250.000	24120.000	24410.000	24140.000	152.500	T 2570000.000
2	15:25:58	M 518.900	M 500.400	M 502.800	T 24940.000	24520.000	24450.000	24580.000	24280.000	130.200	T 2539000.000
3	15:26:01	M 535.300	M 515.500	M 515.100	T 24890.000	24200.000	24230.000	24480.000	24000.000	134.800	T 2549000.000
x		M 525.600	M 507.700	M 508.500	T 24940.000	24320.000	24270.000	24490.000	24140.000	139.200	T 2553000.000
σ		M 8.589	M 7.544	M 6.192	T 45.300	171.800	169.900	85.920	141.000	11.760	T 15910.000
%RSD		M 1.634	M 1.486	M 1.218	T 0.182	0.707	0.700	0.351	0.584	8.453	T 0.624

Run	Time	39K	43Ca	45Sc-KED	45Sc-CCT	47Ti	51V	52Cr	53Cl O	54Fe	55Mn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:25:54	TM 25070.000	24370.000	76.301%	79.243%	M 505.100	M 500.200	M 500.200	83.490	TM 25350.000	M 502.200
2	15:25:58	T 24890.000	24870.000	75.315%	79.838%	497.400	M 500.100	498.600	81.770	TM 25070.000	499.600
3	15:26:01	T 24910.000	24510.000	74.766%	78.685%	M 500.500	496.000	498.100	82.750	TM 25050.000	498.400
x		TM 24960.000	24580.000	75.460%	79.255%	M 501.000	M 498.800	M 499.000	82.670	TM 25160.000	M 500.100
σ		TM 95.020	256.400	0.778%	0.576%	M 3.883	M 2.397	M 1.107	0.863	TM 171.200	M 1.932
%RSD		TM 0.381	1.043	1.031	0.727	M 0.775	M 0.481	M 0.222	1.044	TM 0.681	M 0.386

Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:25:54	499.200	495.900	486.700	498.400	73.909%	485.600	492.400	M 504.700	78.585%	493.700
2	15:25:58	494.000	493.800	482.100	494.900	75.230%	474.400	478.100	M 505.800	78.531%	497.200
3	15:26:01	496.400	492.400	482.500	498.400	73.767%	478.700	482.400	M 507.100	77.202%	498.900
x		496.500	494.100	483.800	497.200	74.302%	479.600	484.300	M 505.900	78.106%	496.600
σ		2.573	1.782	2.508	2.012	0.807%	5.695	7.341	M 1.215	0.783%	2.662
%RSD		0.518	0.361	0.518	0.405	1.086	1.188	1.516	M 0.240	1.003	0.536

Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:25:54	M 501.800	495.200	245.800	489.800	85.257%	495.600	490.000	M 500.300	84.009%	499.800
2	15:25:58	M 500.100	493.600	246.300	485.500	85.550%	497.500	491.100	495.400	84.145%	M 500.200
3	15:26:01	M 501.400	493.700	247.000	488.000	84.737%	498.200	492.500	499.300	84.366%	499.900
x		M 501.100	494.200	246.400	487.800	85.181%	497.100	491.200	M 498.400	84.174%	M 500.000
σ		M 0.916	0.918	0.565	2.152	0.411%	1.358	1.287	M 2.593	0.180%	M 0.241
%RSD		M 0.183	0.186	0.230	0.441	0.483	0.273	0.262	M 0.520	0.214	M 0.048

Run	Time	201Hg	205Tl	208Pb	209Bi	238U
		ppb	ppb	ppb	ppb	ppb
1	15:25:54	24.830	TM 502.600	T 499.100	91.976%	TM 531.400
2	15:25:58	24.930	T 499.000	TM 500.200	92.327%	TM 525.900
3	15:26:01	24.680	T 495.300	TM 502.200	92.449%	TM 529.400
x		24.820	TM 499.000	TM 500.500	92.251%	TM 528.900
σ		0.125	TM 3.662	TM 1.587	0.246%	TM 2.819
%RSD		0.503	TM 0.734	TM 0.317	0.266	TM 0.533

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User Pre-dilution: 1.000

Run	Time	7Li	9Be	10B	23Na	25Mg	27Al	28Si	31P	34S	35Cl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:33:02	118.200	119.200	117.700	5675.000	5580.000	5555.000	5962.000	5847.000	136.700	T 1897000.000
2	15:33:05	116.500	116.900	119.300	5559.000	5626.000	5511.000	5927.000	5783.000	130.300	T 1884000.000
3	15:33:09	117.500	117.700	114.700	5562.000	5539.000	5440.000	5857.000	5722.000	116.700	T 1861000.000
x		117.400	118.000	117.300	5599.000	5582.000	5502.000	5915.000	5784.000	127.900	T 1881000.000
σ		0.896	1.203	2.343	66.310	43.640	57.730	53.770	62.560	10.210	T 18520.000
%RSD		0.763	1.020	1.998	1.184	0.782	1.049	0.909	1.082	7.983	T 0.985

Run	Time	39K	43Ca	45Sc-KED	45Sc-CCT	47Ti	51V	52Cr	53Cl O	54Fe	55Mn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:33:02	5522.000	5625.000	74.750%	76.230%	108.800	108.000	107.900	27.020	5568.000	109.300
2	15:33:05	5463.000	5525.000	76.279%	77.443%	112.000	108.500	108.400	19.500	5479.000	107.500
3	15:33:09	5408.000	5648.000	76.607%	76.330%	106.800	107.900	107.000	20.660	5491.000	107.200
x		5464.000	5599.000	75.879%	76.668%	109.200	108.100	107.700	22.390	5513.000	108.000
σ		56.690	65.320	0.991%	0.673%	2.605	0.308	0.711	4.046	48.040	1.134
%RSD		1.037	1.167	1.307	0.878	2.385	0.284	0.660	18.070	0.871	1.050

Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:33:02	108.300	109.600	107.400	113.300	77.779%	104.600	112.200	107.900	79.363%	110.800
2	15:33:05	107.400	108.400	106.800	110.100	78.859%	105.200	112.300	108.100	80.051%	110.400
3	15:33:09	106.600	108.700	107.300	112.200	79.251%	103.200	111.600	107.800	80.844%	109.800
x		107.400	108.900	107.200	111.900	78.630%	104.300	112.000	107.900	80.086%	110.300
σ		0.858	0.636	0.339	1.608	0.762%	1.049	0.341	0.159	0.741%	0.493
%RSD		0.799	0.584	0.316	1.438	0.969	1.005	0.304	0.148	0.925	0.447

Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:33:02	102.200	105.000	56.740	111.400	84.994%	113.500	113.900	108.800	84.475%	107.200
2	15:33:05	101.700	104.200	56.790	112.000	85.902%	113.200	114.100	107.100	86.100%	106.500
3	15:33:09	101.200	103.800	56.060	111.500	86.163%	112.400	113.600	107.700	86.314%	106.200
x		101.700	104.300	56.530	111.600	85.686%	113.000	113.900	107.900	85.630%	106.600
σ		0.541	0.598	0.406	0.335	0.613%	0.535	0.246	0.828	1.005%	0.524
%RSD		0.532	0.574	0.719	0.300	0.716	0.473	0.216	0.767	1.174	0.491

Run	Time	201Hg	205Tl	208Pb	209Bi	238U
		ppb	ppb	ppb	ppb	ppb
1	15:33:02	4.195	104.800	107.900	94.573%	T 114.500
2	15:33:05	3.809	104.900	107.300	96.716%	T 113.000
3	15:33:09	3.950	105.000	107.500	96.678%	T 111.500
x		3.985	104.900	107.600	95.989%	T 113.000
σ		0.195	0.076	0.306	1.226%	T 1.488
%RSD		4.900	0.072	0.284	1.278	T 1.316

234056_10005_ICBTVA 9/3/2019 3:40:06 PM

User Pre-dilution: 1.000

Run	Time	7Li	9Be	10B	23Na	25Mg	27Al	28Si	31P	34S	35Cl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:40:09	0.053	0.045	0.851	10.400	9.191	7.934	9.657	6.824	132.400	T 1937000.000
2	15:40:13	0.102	0.040	1.046	6.777	7.855	7.066	5.351	1.731	116.700	T 1946000.000
3	15:40:17	0.061	0.044	0.888	3.687	4.528	3.145	4.564	3.851	121.900	T 1944000.000
x		0.072	0.043	0.928	6.956	7.191	6.049	6.524	4.136	123.700	T 1942000.000
σ		0.026	0.003	0.103	3.362	2.401	2.552	2.742	2.558	7.985	T 4320.000
%RSD		36.160	6.210	11.150	48.340	33.390	42.190	42.030	61.860	6.456	T 0.222

Run	Time	39K	43Ca	45Sc-KED	45Sc-CCT	47Ti	51V	52Cr	53Cl O	54Fe	55Mn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:40:09	-0.570	1.151	79.258%	80.787%	0.258	0.042	0.178	4.905	8.929	0.190
2	15:40:13	4.595	1.767	79.549%	80.998%	0.154	0.002	0.127	5.109	7.755	0.108
3	15:40:17	-10.860	11.540	80.414%	81.913%	-0.001	0.017	0.092	4.596	5.103	0.100
x		-2.280	4.819	79.741%	81.233%	0.137	0.020	0.133	4.870	7.262	0.132
σ		7.870	5.828	0.601%	0.598%	0.130	0.020	0.043	0.258	1.960	0.050
%RSD		345.200	120.900	0.754	0.737	94.860	97.940	32.660	5.306	26.980	37.770

Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:40:09	0.181	0.197	0.195	0.146	80.392%	0.170	0.085	0.216	82.116%	0.184
2	15:40:13	0.138	0.149	0.145	0.036	82.394%	0.097	0.031	0.151	83.931%	0.147
3	15:40:17	0.102	0.080	0.104	0.041	82.825%	0.044	-0.006	0.105	84.436%	0.097
x		0.140	0.142	0.148	0.074	81.870%	0.104	0.037	0.158	83.494%	0.143
σ		0.040	0.059	0.045	0.062	1.298%	0.063	0.046	0.055	1.220%	0.044
%RSD		28.300	41.390	30.670	82.960	1.585	60.780	124.000	35.220	1.461	30.720

Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:40:09	0.183	0.147	0.111	0.130	85.574%	0.203	0.210	0.195	85.665%	0.193
2	15:40:13	0.149	0.117	0.070	0.190	86.383%	0.179	0.164	0.147	86.631%	0.140
3	15:40:17	0.068	0.059	0.060	0.103	86.405%	0.130	0.101	0.110	86.785%	0.100
x		0.133	0.108	0.081	0.141	86.121%	0.171	0.158	0.151	86.360%	0.144
σ		0.059	0.045	0.027	0.045	0.474%	0.037	0.055	0.043	0.607%	0.047
%RSD		44.510	41.480	33.230	31.640	0.550	21.550	34.580	28.290	0.703	32.400

Run	Time	201Hg	205Tl	208Pb	209Bi	238U
		ppb	ppb	ppb	ppb	ppb
1	15:40:09	0.031	0.276	0.202	94.237%	0.188
2	15:40:13	0.027	0.219	0.150	96.118%	0.157
3	15:40:17	0.050	0.159	0.107	95.816%	0.097
x		0.036	0.218	0.153	95.391%	0.147
σ		0.012	0.058	0.048	1.010%	0.047
%RSD		33.720	26.800	31.110	1.059	31.580

234057_10005_CRDL_A1 9/3/2019 3:47:14 PM

User Pre-dilution: 1.000

Run	Time	7Li	9Be	10B	23Na	25Mg	27Al	28Si	31P	34S	35Cl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:47:17	1.092	1.126	1.887	250.900	256.300	253.700	58.090	42.260	138.200	T 1989000.000
2	15:47:21	1.025	1.108	1.536	246.800	257.800	252.300	58.080	64.110	124.600	T 1958000.000
3	15:47:25	1.025	0.911	1.754	249.100	257.800	251.600	61.580	50.780	120.900	T 1946000.000
x		1.047	1.048	1.726	248.900	257.300	252.600	59.250	52.380	127.900	T 1965000.000
σ		0.038	0.119	0.177	2.019	0.871	1.064	2.017	11.010	9.097	T 22080.000
%RSD		3.668	11.340	10.250	0.811	0.339	0.421	3.404	21.020	7.113	T 1.124

Run	Time	39K	43Ca	45Sc-KED	45Sc-CCT	47Ti	51V	52Cr	53Cl O	54Fe	55Mn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:47:17	237.600	235.500	82.701%	87.567%	1.151	0.995	1.011	5.155	246.600	1.018
2	15:47:21	240.200	257.500	84.205%	87.570%	0.693	0.974	0.985	4.916	246.000	0.983
3	15:47:25	233.500	280.900	85.394%	86.615%	0.935	0.788	0.978	5.386	246.200	1.053
x		237.100	258.000	84.100%	87.251%	0.926	0.919	0.991	5.152	246.300	1.018
σ		3.376	22.710	1.350%	0.550%	0.229	0.114	0.018	0.235	0.319	0.035
%RSD		1.424	8.806	1.605	0.631	24.700	12.430	1.784	4.564	0.130	3.421

Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:47:17	1.029	1.004	1.036	2.318	85.744%	0.985	0.884	1.017	86.260%	1.009
2	15:47:21	1.043	1.029	1.058	2.291	86.422%	1.026	0.874	1.048	87.305%	1.036
3	15:47:25	1.013	1.063	1.048	2.274	87.547%	1.003	1.032	0.998	87.465%	1.019
x		1.029	1.032	1.047	2.294	86.571%	1.005	0.930	1.021	87.010%	1.022
σ		0.015	0.030	0.011	0.022	0.911%	0.021	0.088	0.025	0.654%	0.014
%RSD		1.457	2.862	1.053	0.973	1.052	2.089	9.487	2.462	0.752	1.331

Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:47:17	1.064	1.063	0.525	1.073	89.505%	1.001	1.087	1.058	87.569%	1.020
2	15:47:21	1.000	1.070	0.560	1.001	91.395%	1.051	1.087	1.014	89.399%	1.007
3	15:47:25	1.104	1.043	0.559	1.074	91.612%	1.051	1.070	1.009	89.046%	1.044
x		1.056	1.059	0.548	1.050	90.837%	1.034	1.081	1.027	88.671%	1.024
σ		0.052	0.014	0.020	0.042	1.158%	0.029	0.010	0.027	0.971%	0.019
%RSD		4.969	1.311	3.613	3.980	1.275	2.780	0.911	2.662	1.095	1.835

Run	Time	201Hg	205Tl	208Pb	209Bi	238U
		ppb	ppb	ppb	ppb	ppb
1	15:47:17	0.192	1.023	1.025	95.606%	1.011
2	15:47:21	0.189	1.059	1.021	96.964%	1.039
3	15:47:25	0.183	1.059	1.046	97.310%	1.067
x		0.188	1.047	1.031	96.627%	1.039
σ		0.005	0.021	0.013	0.901%	0.028
%RSD		2.467	1.969	1.297	0.932	2.696

234058_10005_CRDL_B1 9/3/2019 3:54:22 PM

User Pre-dilution: 1.000

Run	Time	7Li	9Be	10B	23Na	25Mg	27Al	28Si	31P	34S	35Cl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:54:25	5.201	4.930	5.707	504.900	496.900	506.400	280.600	259.900	115.200	T 2017000.000
2	15:54:29	5.135	5.148	5.566	497.600	498.100	508.100	269.000	247.200	134.800	T 1986000.000
3	15:54:33	5.205	4.763	5.015	507.800	521.400	519.400	281.500	245.700	127.800	T 2028000.000
x		5.180	4.947	5.430	503.500	505.500	511.300	277.000	250.900	125.900	T 2011000.000
σ		0.040	0.193	0.366	5.268	13.810	7.054	6.940	7.814	9.929	T 21700.000
%RSD		0.763	3.906	6.742	1.046	2.732	1.380	2.505	3.114	7.885	T 1.080

Run	Time	39K	43Ca	45Sc-KED	45Sc-CCT	47Ti	51V	52Cr	53Cl O	54Fe	55Mn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:54:25	491.900	575.900	84.823%	88.794%	5.533	5.021	4.923	5.123	494.600	5.006
2	15:54:29	490.700	493.700	85.817%	90.374%	4.918	4.891	4.907	5.237	494.200	4.876
3	15:54:33	504.500	519.200	85.350%	89.684%	5.044	5.102	5.103	5.960	510.200	4.910
x		495.700	529.600	85.330%	89.617%	5.165	5.005	4.978	5.440	499.700	4.931
σ		7.648	42.090	0.497%	0.792%	0.325	0.107	0.109	0.454	9.073	0.067
%RSD		1.543	7.947	0.583	0.884	6.288	2.134	2.182	8.348	1.816	1.364

Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:54:25	4.974	5.171	5.111	5.593	86.695%	4.822	5.447	4.839	87.899%	4.988
2	15:54:29	5.046	5.096	4.945	5.212	89.427%	4.917	4.799	4.958	88.756%	5.072
3	15:54:33	5.081	5.217	5.259	5.402	87.966%	5.105	5.433	5.105	87.643%	5.225
x		5.033	5.161	5.105	5.403	88.029%	4.948	5.226	4.967	88.099%	5.095
σ		0.055	0.061	0.157	0.191	1.367%	0.144	0.370	0.133	0.583%	0.120
%RSD		1.088	1.179	3.071	3.528	1.553	2.914	7.088	2.675	0.661	2.352

Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:54:25	4.879	5.144	2.676	5.103	91.108%	5.081	5.173	5.268	87.986%	4.924
2	15:54:29	4.952	5.161	2.543	5.275	92.214%	5.081	5.201	4.951	89.004%	5.136
3	15:54:33	5.091	5.226	2.618	5.226	91.071%	5.265	5.328	5.377	88.125%	5.192
x		4.974	5.177	2.612	5.201	91.464%	5.142	5.234	5.199	88.372%	5.084
σ		0.108	0.043	0.066	0.088	0.650%	0.106	0.083	0.221	0.552%	0.141
%RSD		2.164	0.839	2.542	1.697	0.710	2.063	1.584	4.257	0.625	2.783

Run	Time	201Hg	205Tl	208Pb	209Bi	238U
		ppb	ppb	ppb	ppb	ppb
1	15:54:25	0.513	4.916	4.946	95.821%	4.960
2	15:54:29	0.537	4.937	5.031	97.028%	5.040
3	15:54:33	0.561	5.107	5.165	96.227%	5.077
x		0.537	4.987	5.047	96.359%	5.026
σ		0.024	0.105	0.110	0.614%	0.060
%RSD		4.477	2.101	2.185	0.637	1.192

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User Pre-dilution: 1.000

Run	Time	7Li	9Be	10B	23Na	25Mg	27Al	28Si	31P	34S	35Cl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:01:33	0.282	0.007	0.535	TM 53750.000	M 50330.000	TM 51160.000	8.419	M 55370.000	3738.000	T 2099000.000
2	16:01:37	0.271	0.028	1.044	TM 53390.000	M 50890.000	TM 51260.000	9.421	M 55450.000	3759.000	T 2087000.000
3	16:01:41	0.230	0.003	0.763	TM 54150.000	M 51260.000	TM 51320.000	10.830	M 55580.000	3731.000	T 2083000.000
x		0.261	0.013	0.780	TM 53760.000	M 50830.000	TM 51250.000	9.556	M 55460.000	3743.000	T 2090000.000
σ		0.028	0.013	0.255	TM 380.700	M 468.200	TM 78.060	1.211	M 105.300	14.660	T 8180.000
%RSD		10.600	105.700	32.680	TM 0.708	M 0.921	TM 0.152	12.670	M 0.190	0.392	T 0.391

Run	Time	39K	43Ca	45Sc-KED	45Sc-CCT	47Ti	51V	52Cr	53Cl O	54Fe	55Mn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:01:33	TM 54430.000	M 54260.000	71.574%	77.814%	M 1052.000	-0.171	-0.023	5.707	TM 54770.000	-0.047
2	16:01:37	TM 54220.000	M 52620.000	71.542%	77.859%	M 1054.000	0.012	-0.036	5.408	TM 54670.000	-0.059
3	16:01:41	TM 54620.000	M 54740.000	71.629%	77.055%	M 1064.000	-0.024	0.014	4.899	TM 55050.000	-0.046
x		TM 54420.000	M 53870.000	71.582%	77.576%	M 1057.000	-0.061	-0.015	5.338	TM 54830.000	-0.051
σ		TM 200.900	M 1114.000	0.044%	0.452%	M 6.386	0.097	0.026	0.409	TM 200.100	0.007
%RSD		TM 0.369	M 2.068	0.061	0.582	M 0.604	160.000	169.600	7.655	TM 0.365	14.250

Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:01:33	-0.000	0.011	0.228	-0.001	72.267%	0.100	-0.072	0.563	74.895%	0.070
2	16:01:37	-0.010	-0.035	0.233	0.007	72.227%	0.044	-0.105	0.561	76.083%	0.069
3	16:01:41	0.003	0.021	0.243	0.018	71.630%	0.107	-0.015	0.583	75.493%	0.067
x		-0.002	-0.001	0.235	0.008	72.041%	0.084	-0.064	0.569	75.490%	0.069
σ		0.007	0.030	0.007	0.009	0.357%	0.034	0.046	0.012	0.594%	0.002
%RSD		274.600	2707.000	3.145	117.900	0.495	41.170	71.210	2.081	0.787	2.374

Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:01:33	M 1064.000	-0.012	-0.002	0.117	82.624%	0.158	0.092	0.088	78.549%	0.017
2	16:01:37	M 1067.000	-0.022	-0.002	0.079	83.307%	0.137	0.090	0.091	79.647%	0.000
3	16:01:41	M 1087.000	0.001	0.006	0.101	83.207%	0.139	0.083	0.099	79.603%	0.020
x		M 1072.000	-0.011	0.001	0.099	83.046%	0.144	0.088	0.093	79.266%	0.012
σ		M 12.350	0.012	0.004	0.019	0.369%	0.012	0.005	0.006	0.622%	0.010
%RSD		M 1.152	104.200	863.700	18.900	0.444	8.152	5.639	6.421	0.784	85.450

Run	Time	201Hg	205Tl	208Pb	209Bi	238U
		ppb	ppb	ppb	ppb	ppb
1	16:01:33	0.017	0.014	0.039	85.154%	-0.004
2	16:01:37	0.044	0.014	0.042	86.413%	-0.004
3	16:01:41	0.007	0.013	0.036	86.663%	-0.003
x		0.023	0.014	0.039	86.077%	-0.004
σ		0.019	0.001	0.003	0.809%	0.001
%RSD		84.940	6.109	7.528	0.939	14.740

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User Pre-dilution: 1.000

Run	Time	7Li	9Be	10B	23Na	25Mg	27Al	28Si	31P	34S	35Cl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:08:42	98.530	100.300	97.190	TM 52550.000	M 50110.000	M 49710.000	5331.000	M 58970.000	3723.000	T 2157000.000
2	16:08:45	97.320	101.800	100.100	TM 53010.000	M 50730.000	TM 49780.000	5409.000	M 59280.000	3653.000	T 2151000.000
3	16:08:49	99.910	100.900	99.370	TM 52230.000	M 50170.000	TM 49190.000	5280.000	M 58390.000	3583.000	T 2131000.000
x		98.590	101.000	98.880	TM 52600.000	M 50330.000	TM 49560.000	5340.000	M 58880.000	3653.000	T 2146000.000
σ		1.296	0.751	1.512	TM 395.700	M 340.100	TM 320.300	64.650	M 449.900	70.170	T 13430.000
%RSD		1.315	0.744	1.529	TM 0.752	M 0.676	TM 0.646	1.211	M 0.764	1.921	T 0.626

Run	Time	39K	43Ca	45Sc-KED	45Sc-CCT	47Ti	51V	52Cr	53Cl O	54Fe	55Mn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:08:42	TM 53290.000	M 53740.000	71.039%	74.355%	M 1150.000	103.800	103.200	23.430	TM 53370.000	102.200
2	16:08:45	TM 53360.000	M 53850.000	71.008%	74.148%	M 1158.000	104.400	103.900	19.740	TM 53020.000	103.300
3	16:08:49	TM 52730.000	M 52800.000	72.114%	74.580%	M 1136.000	103.800	103.900	21.580	TM 53210.000	103.000
x		TM 53130.000	M 53470.000	71.387%	74.361%	M 1148.000	104.000	103.700	21.590	TM 53200.000	102.900
σ		TM 343.200	M 574.500	0.630%	0.216%	M 11.080	0.337	0.402	1.841	TM 174.400	0.593
%RSD		TM 0.646	M 1.074	0.882	0.291	M 0.965	0.324	0.388	8.529	TM 0.328	0.576

Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:08:42	101.700	103.400	99.850	106.200	72.389%	104.700	108.800	103.800	74.898%	101.100
2	16:08:45	102.100	102.600	98.900	103.300	73.781%	103.800	107.700	104.300	76.497%	99.950
3	16:08:49	101.900	101.800	100.300	104.600	72.902%	105.100	110.400	104.900	76.228%	100.200
x		101.900	102.600	99.690	104.700	73.024%	104.500	109.000	104.300	75.874%	100.400
σ		0.220	0.784	0.730	1.463	0.704%	0.667	1.375	0.573	0.856%	0.610
%RSD		0.216	0.764	0.733	1.397	0.964	0.638	1.262	0.549	1.128	0.607

Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:08:42	M 1179.000	100.100	49.790	103.400	83.534%	101.400	104.400	101.800	80.163%	105.900
2	16:08:45	M 1165.000	100.100	49.590	102.400	84.603%	100.700	103.900	101.800	81.827%	105.500
3	16:08:49	M 1180.000	100.100	49.750	102.400	85.259%	101.000	103.200	101.100	82.506%	105.500
x		M 1175.000	100.100	49.710	102.700	84.466%	101.000	103.800	101.600	81.498%	105.700
σ		M 8.689	0.043	0.105	0.542	0.871%	0.355	0.564	0.413	1.206%	0.225
%RSD		M 0.740	0.043	0.212	0.527	1.031	0.352	0.543	0.406	1.479	0.213

Run	Time	201Hg	205Tl	208Pb	209Bi	238U
		ppb	ppb	ppb	ppb	ppb
1	16:08:42	5.418	101.600	100.900	88.651%	109.500
2	16:08:45	5.477	101.300	100.700	90.365%	109.000
3	16:08:49	5.528	101.400	101.200	90.771%	109.100
x		5.474	101.500	100.900	89.929%	109.200
σ		0.055	0.129	0.287	1.125%	0.290
%RSD		1.011	0.127	0.285	1.251	0.266

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User Pre-dilution: 1.000

Run	Time	7Li	9Be	10B	23Na	25Mg	27Al	28Si	31P	34S	35Cl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:15:49	95.900	99.740	95.800	4962.000	4943.000	4829.000	5133.000	5002.000	131.200	T 2074000.000
2	16:15:53	98.110	98.420	97.160	4978.000	4936.000	4854.000	5162.000	5092.000	121.300	T 2064000.000
3	16:15:57	97.020	98.490	97.330	4929.000	4952.000	4872.000	5175.000	5009.000	110.300	T 2046000.000
x		97.010	98.880	96.770	4956.000	4944.000	4852.000	5157.000	5034.000	121.000	T 2061000.000
σ		1.106	0.740	0.838	24.630	7.799	21.480	21.520	50.150	10.430	T 14180.000
%RSD		1.140	0.749	0.866	0.497	0.158	0.443	0.417	0.996	8.625	T 0.688

Run	Time	39K	43Ca	45Sc-KED	45Sc-CCT	47Ti	51V	52Cr	53Cl O	54Fe	55Mn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:15:49	4868.000	4751.000	80.778%	85.010%	100.200	97.350	98.770	22.110	4895.000	97.610
2	16:15:53	4885.000	5104.000	81.088%	85.543%	99.490	98.570	99.910	19.350	4968.000	98.610
3	16:15:57	4850.000	4921.000	81.028%	85.417%	98.200	97.670	99.210	19.470	4891.000	97.170
x		4868.000	4925.000	80.965%	85.323%	99.310	97.860	99.290	20.310	4918.000	97.790
σ		17.290	176.800	0.164%	0.278%	1.034	0.633	0.575	1.559	43.460	0.738
%RSD		0.355	3.589	0.203	0.326	1.041	0.647	0.580	7.677	0.884	0.754

Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:15:49	98.100	100.500	99.870	103.600	83.287%	97.280	101.100	97.080	84.520%	99.620
2	16:15:53	98.480	101.500	99.570	103.600	83.406%	98.040	100.800	97.160	84.594%	100.000
3	16:15:57	98.150	100.900	98.670	101.300	84.436%	96.210	98.740	97.000	85.244%	98.970
x		98.250	101.000	99.370	102.900	83.709%	97.180	100.200	97.080	84.786%	99.540
σ		0.208	0.509	0.629	1.310	0.632%	0.920	1.304	0.081	0.399%	0.541
%RSD		0.211	0.504	0.633	1.273	0.755	0.947	1.301	0.084	0.470	0.544

Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:15:49	98.250	102.600	51.820	101.200	89.976%	99.560	100.900	98.920	89.511%	100.600
2	16:15:53	99.220	102.000	51.850	102.300	90.819%	99.450	102.500	98.740	90.106%	101.100
3	16:15:57	98.240	101.900	51.540	101.500	91.068%	99.770	102.400	98.600	90.637%	99.930
x		98.570	102.200	51.740	101.700	90.621%	99.590	101.900	98.750	90.085%	100.500
σ		0.566	0.354	0.168	0.546	0.572%	0.163	0.868	0.160	0.563%	0.590
%RSD		0.575	0.346	0.325	0.537	0.632	0.164	0.851	0.162	0.625	0.587

Run	Time	201Hg	205Tl	208Pb	209Bi	238U
		ppb	ppb	ppb	ppb	ppb
1	16:15:49	4.959	97.480	98.410	99.886%	T 100.300
2	16:15:53	4.875	98.360	99.460	100.295%	T 100.400
3	16:15:57	4.980	96.830	98.530	101.329%	T 99.470
x		4.938	97.560	98.800	100.503%	T 100.100
σ		0.056	0.768	0.575	0.744%	T 0.515
%RSD		1.127	0.787	0.582	0.740	T 0.515

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User Pre-dilution: 1.000

Run	Time	7Li	9Be	10B	23Na	25Mg	27Al	28Si	31P	34S	35Cl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:22:59	0.074	0.065	0.925	16.040	17.760	14.630	1.325	14.130	126.100	T 1960000.000
2	16:23:03	0.100	0.074	0.650	12.040	13.110	10.210	0.246	-3.938	126.400	T 1925000.000
3	16:23:07	0.110	0.054	0.468	10.630	11.860	7.109	-2.863	6.429	134.100	T 1933000.000
x		0.095	0.064	0.681	12.900	14.240	10.650	-0.431	5.539	128.900	T 1939000.000
σ		0.019	0.010	0.230	2.805	3.111	3.779	2.174	9.065	4.535	T 18520.000
%RSD		19.630	15.290	33.770	21.740	21.840	35.490	504.600	163.700	3.519	T 0.955

Run	Time	39K	43Ca	45Sc-KED	45Sc-CCT	47Ti	51V	52Cr	53Cl O	54Fe	55Mn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:22:59	6.078	16.940	84.354%	88.991%	0.378	-0.132	0.075	5.185	14.330	0.021
2	16:23:03	-1.639	25.380	86.016%	88.540%	0.363	-0.054	0.053	4.700	11.860	0.039
3	16:23:07	-5.512	1.910	86.766%	90.628%	0.056	-0.064	0.022	4.608	9.519	0.007
x		-0.358	14.740	85.712%	89.386%	0.265	-0.083	0.050	4.831	11.900	0.023
σ		5.900	11.890	1.235%	1.099%	0.182	0.043	0.027	0.310	2.404	0.016
%RSD		1650.000	80.630	1.440	1.229	68.540	51.360	53.240	6.422	20.200	70.470

Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:22:59	0.061	0.007	0.038	-0.056	88.637%	-0.026	-0.026	0.053	88.713%	0.052
2	16:23:03	0.047	0.017	0.037	-0.108	88.978%	0.002	-0.080	0.035	89.474%	0.037
3	16:23:07	0.034	0.032	0.022	-0.119	89.919%	-0.025	-0.116	0.024	90.006%	0.045
x		0.047	0.019	0.032	-0.094	89.178%	-0.016	-0.074	0.037	89.398%	0.045
σ		0.013	0.012	0.009	0.034	0.664%	0.016	0.045	0.015	0.650%	0.008
%RSD		28.520	66.580	27.350	35.600	0.744	97.900	60.850	38.820	0.727	17.230

Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:22:59	0.303	0.037	0.027	0.067	90.449%	0.060	0.059	0.039	90.435%	0.047
2	16:23:03	0.247	0.029	0.024	0.039	92.207%	0.061	0.043	0.028	90.820%	0.048
3	16:23:07	0.219	-0.017	0.027	0.017	92.112%	0.032	0.027	0.030	92.248%	0.034
x		0.256	0.016	0.026	0.041	91.589%	0.051	0.043	0.032	91.168%	0.043
σ		0.043	0.029	0.001	0.025	0.988%	0.017	0.016	0.006	0.955%	0.008
%RSD		16.780	179.800	5.680	61.440	1.079	32.460	37.230	18.080	1.048	18.440

Run	Time	201Hg	205Tl	208Pb	209Bi	238U
		ppb	ppb	ppb	ppb	ppb
1	16:22:59	0.026	0.108	0.064	98.443%	0.058
2	16:23:03	0.025	0.087	0.045	100.083%	0.043
3	16:23:07	0.017	0.071	0.035	100.941%	0.029
x		0.023	0.089	0.048	99.823%	0.043
σ		0.005	0.018	0.015	1.269%	0.015
%RSD		22.170	20.800	31.200	1.272	34.000

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User Pre-dilution: 1.000

Run	Time	7Li	9Be	10B	23Na	25Mg	27Al	28Si	31P	34S	35Cl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:30:05	0.038	0.028	0.590	T 12860.000	3070.000	15.930	33.250	M 34150.000	1947.000	T 1880000.000
2	16:30:09	0.022	0.027	0.498	T 12870.000	3120.000	13.420	34.930	M 34790.000	1932.000	T 1894000.000
3	16:30:13	0.048	0.018	0.715	T 12590.000	3023.000	12.950	31.940	M 34040.000	1927.000	T 1860000.000
x		0.036	0.024	0.601	T 12770.000	3071.000	14.100	33.370	M 34330.000	1936.000	T 1878000.000
σ		0.013	0.005	0.109	T 158.700	48.270	1.605	1.497	M 408.600	10.600	T 17490.000
%RSD		35.920	21.050	18.160	T 1.243	1.572	11.380	4.485	M 1.190	0.548	T 0.931

Run	Time	39K	43Ca	45Sc-KED	45Sc-CCT	47Ti	51V	52Cr	53Cl O	54Fe	55Mn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:30:05	TM 34410.000	3265.000	88.988%	91.514%	-0.477	0.248	1.055	5.221	469.600	7.526
2	16:30:09	TM 34580.000	3219.000	88.705%	93.271%	-0.103	0.295	1.060	4.849	464.500	7.482
3	16:30:13	TM 33790.000	3316.000	90.205%	93.051%	-0.519	0.053	0.998	5.670	463.400	7.272
x		TM 34260.000	3266.000	89.299%	92.612%	-0.366	0.199	1.038	5.246	465.800	7.426
σ		TM 418.000	48.530	0.797%	0.957%	0.229	0.128	0.034	0.411	3.323	0.136
%RSD		TM 1.220	1.486	0.893	1.034	62.520	64.500	3.315	7.838	0.713	1.825

Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:30:05	5.034	0.197	58.950	264.700	91.977%	0.181	8.558	2.559	92.088%	0.035
2	16:30:09	5.138	0.183	59.180	262.600	93.062%	0.101	8.412	2.469	93.395%	0.021
3	16:30:13	5.072	0.219	59.100	263.100	91.974%	0.162	8.182	2.503	93.188%	0.004
x		5.081	0.200	59.080	263.500	92.338%	0.148	8.384	2.510	92.890%	0.020
σ		0.053	0.018	0.120	1.144	0.627%	0.042	0.190	0.045	0.702%	0.016
%RSD		1.041	9.122	0.203	0.434	0.679	28.250	2.261	1.807	0.756	79.240

Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:30:05	1.156	-0.012	0.257	1.655	95.148%	34.440	0.049	1.718	T 96.892%	0.009
2	16:30:09	1.105	-0.001	0.224	1.703	96.848%	34.220	0.042	1.671	T 97.904%	0.005
3	16:30:13	1.126	-0.032	0.251	1.650	95.990%	34.080	0.033	1.602	T 98.368%	-0.001
x		1.129	-0.015	0.244	1.670	95.995%	34.250	0.041	1.664	T 97.721%	0.004
σ		0.025	0.016	0.018	0.029	0.850%	0.185	0.008	0.058	T 0.755%	0.005
%RSD		2.250	103.500	7.262	1.736	0.886	0.541	19.540	3.508	T 0.772	121.000

Run	Time	201Hg	205Tl	208Pb	209Bi	238U
		ppb	ppb	ppb	ppb	ppb
1	16:30:05	0.187	0.068	0.042	101.512%	0.047
2	16:30:09	0.220	0.051	0.039	102.786%	0.039
3	16:30:13	0.207	0.053	0.032	102.818%	0.038
x		0.205	0.057	0.038	102.372%	0.042
σ		0.017	0.009	0.005	0.745%	0.005
%RSD		8.313	16.360	14.460	0.728	12.640

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User Pre-dilution: 1.000

Run	Time	7Li	9Be	10B	23Na	25Mg	27Al	28Si	31P	34S	35Cl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:37:12	44.450	46.650	91.590	T 23360.000	13490.000	2532.000	306.700	M 39320.000	1981.000	T 1891000.000
2	16:37:16	44.710	46.020	93.530	T 23390.000	13540.000	2567.000	307.000	M 40090.000	1999.000	T 1911000.000
3	16:37:19	45.110	46.350	95.330	T 23090.000	13460.000	2544.000	302.700	M 39170.000	1904.000	T 1890000.000
x		44.760	46.340	93.480	T 23280.000	13500.000	2548.000	305.500	M 39530.000	1961.000	T 1897000.000
σ		0.331	0.315	1.868	T 167.600	36.390	17.750	2.411	M 491.500	50.490	T 11770.000
%RSD		0.739	0.680	1.998	T 0.720	0.270	0.697	0.789	M 1.244	2.574	T 0.621

Run	Time	39K	43Ca	45Sc-KED	45Sc-CCT	47Ti	51V	52Cr	53Cl O	54Fe	55Mn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:37:12	TM 97610.000	6034.000	90.241%	98.740%	50.490	52.250	52.060	12.000	3024.000	57.890
2	16:37:16	TM 98240.000	6071.000	90.088%	98.842%	52.280	52.110	52.210	12.580	3030.000	58.180
3	16:37:19	TM 97470.000	6036.000	90.827%	100.237%	52.610	51.500	52.020	14.480	3025.000	58.030
x		TM 97770.000	6047.000	90.385%	99.273%	51.800	51.950	52.100	13.020	3026.000	58.030
σ		TM 408.500	20.650	0.390%	0.836%	1.139	0.399	0.101	1.300	3.458	0.144
%RSD		TM 0.418	0.341	0.432	0.843	2.200	0.768	0.194	9.984	0.114	0.248

Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:37:12	55.500	51.570	108.300	449.300	93.871%	51.380	59.830	51.850	94.996%	8.564
2	16:37:16	55.520	51.270	107.500	450.600	95.527%	50.610	60.340	51.940	95.886%	8.627
3	16:37:19	55.140	51.710	108.100	452.900	94.717%	51.110	61.660	52.360	95.839%	8.622
x		55.390	51.520	108.000	450.900	94.705%	51.030	60.610	52.050	95.574%	8.604
σ		0.215	0.227	0.444	1.855	0.828%	0.392	0.940	0.275	0.501%	0.035
%RSD		0.388	0.441	0.412	0.411	0.874	0.767	1.551	0.528	0.524	0.406

Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:37:12	50.450	-0.010	23.670	54.880	97.498%	74.880	55.230	51.910	T 97.476%	0.006
2	16:37:16	50.220	-0.042	23.560	54.940	98.626%	75.320	55.120	51.860	T 98.017%	0.004
3	16:37:19	50.720	-0.028	23.440	55.020	98.536%	75.400	55.620	51.850	T 97.575%	-0.000
x		50.460	-0.027	23.560	54.950	98.220%	75.200	55.320	51.870	T 97.689%	0.003
σ		0.249	0.016	0.115	0.069	0.627%	0.280	0.263	0.036	T 0.288%	0.003
%RSD		0.494	59.590	0.487	0.126	0.639	0.373	0.476	0.070	T 0.295	105.200

Run	Time	201Hg	205Tl	208Pb	209Bi	238U
		ppb	ppb	ppb	ppb	ppb
1	16:37:12	1.491	48.840	49.950	99.097%	52.850
2	16:37:16	1.390	48.970	50.400	100.792%	52.850
3	16:37:19	1.400	49.590	50.540	100.703%	53.270
x		1.427	49.130	50.300	100.197%	52.990
σ		0.056	0.400	0.306	0.954%	0.241
%RSD		3.922	0.814	0.608	0.952	0.455

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User Pre-dilution: 1.000

Run	Time	7Li	9Be	10B	23Na	25Mg	27Al	28Si	31P	34S	35Cl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:44:17	46.010	47.100	94.240	T 23580.000	13690.000	2516.000	301.200	M 40460.000	2007.000	T 1895000.000
2	16:44:21	45.220	47.120	93.210	T 23550.000	13660.000	2513.000	306.100	M 40200.000	1997.000	T 1871000.000
3	16:44:24	46.080	48.910	94.210	T 23440.000	13590.000	2524.000	308.000	M 40430.000	1972.000	T 1860000.000
x		45.770	47.710	93.890	T 23520.000	13650.000	2518.000	305.100	M 40370.000	1992.000	T 1875000.000
σ		0.476	1.039	0.586	T 75.400	50.970	5.731	3.505	M 142.400	18.150	T 17490.000
%RSD		1.041	2.178	0.624	T 0.321	0.374	0.228	1.149	M 0.353	0.911	T 0.933

Run	Time	39K	43Ca	45Sc-KED	45Sc-CCT	47Ti	51V	52Cr	53Cl O	54Fe	55Mn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:44:17	TM 97860.000	6734.000	89.469%	98.119%	50.490	52.260	52.650	14.150	3003.000	58.100
2	16:44:21	TM 97430.000	6645.000	90.432%	98.233%	52.320	51.760	52.630	13.020	3005.000	57.670
3	16:44:24	TM 97260.000	6591.000	90.203%	98.496%	51.510	52.290	52.360	14.140	3033.000	58.810
x		TM 97520.000	6657.000	90.035%	98.283%	51.440	52.110	52.550	13.770	3014.000	58.200
σ		TM 307.300	71.840	0.503%	0.193%	0.914	0.299	0.162	0.650	16.830	0.578
%RSD		TM 0.315	1.079	0.559	0.196	1.777	0.574	0.308	4.723	0.558	0.993

Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:44:17	56.250	51.280	107.900	494.300	94.064%	51.110	60.820	52.800	94.726%	7.209
2	16:44:21	55.730	50.810	107.300	490.400	95.213%	50.730	62.160	52.370	95.512%	7.227
3	16:44:24	56.570	51.650	108.300	494.800	92.847%	51.430	63.860	52.650	94.726%	7.276
x		56.180	51.250	107.800	493.200	94.041%	51.090	62.280	52.610	94.988%	7.238
σ		0.424	0.420	0.481	2.430	1.183%	0.353	1.524	0.219	0.454%	0.034
%RSD		0.755	0.820	0.446	0.493	1.258	0.690	2.447	0.416	0.478	0.475

Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:44:17	50.690	-0.031	23.760	55.200	97.321%	74.790	55.840	51.540	T 97.723%	-0.010
2	16:44:21	50.670	-0.034	23.710	55.570	97.846%	74.600	55.620	52.470	T 97.725%	-0.008
3	16:44:24	50.490	-0.061	23.680	55.410	98.084%	74.230	55.510	52.310	T 97.018%	-0.011
x		50.620	-0.042	23.720	55.390	97.750%	74.540	55.660	52.110	T 97.489%	-0.010
σ		0.108	0.016	0.043	0.186	0.390%	0.283	0.170	0.495	T 0.408%	0.002
%RSD		0.214	38.590	0.181	0.336	0.399	0.380	0.305	0.951	T 0.418	17.480

Run	Time	201Hg	205Tl	208Pb	209Bi	238U
		ppb	ppb	ppb	ppb	ppb
1	16:44:17	1.469	49.330	50.470	99.503%	53.090
2	16:44:21	1.523	49.210	50.460	100.298%	53.280
3	16:44:24	1.588	49.740	50.550	100.327%	53.420
x		1.527	49.430	50.490	100.042%	53.260
σ		0.059	0.277	0.048	0.468%	0.167
%RSD		3.887	0.560	0.094	0.467	0.313

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User Pre-dilution: 1.000

Run	Time	7Li	9Be	10B	23Na	25Mg	27Al	28Si	31P	34S	35Cl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:51:25	43.380	45.310	90.920	T 22780.000	13080.000	2421.000	301.100	M 39420.000	1958.000	T 1835000.000
2	16:51:29	43.770	46.520	94.220	T 22830.000	13020.000	2415.000	302.000	M 39470.000	1965.000	T 1820000.000
3	16:51:33	44.160	45.880	93.070	T 22950.000	13130.000	2420.000	305.100	M 39380.000	1966.000	T 1806000.000
x		43.770	45.900	92.740	T 22850.000	13080.000	2418.000	302.700	M 39420.000	1963.000	T 1820000.000
σ		0.386	0.604	1.672	T 86.070	53.380	3.258	2.083	M 41.010	4.660	T 14360.000
%RSD		0.882	1.315	1.803	T 0.377	0.408	0.135	0.688	M 0.104	0.237	T 0.789

Run	Time	39K	43Ca	45Sc-KED	45Sc-CCT	47Ti	51V	52Cr	53Cl O	54Fe	55Mn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:51:25	TM 93870.000	5942.000	90.205%	98.656%	48.670	49.980	50.090	14.380	2895.000	55.380
2	16:51:29	TM 93230.000	5471.000	90.903%	97.428%	50.450	49.490	49.690	12.960	2894.000	55.300
3	16:51:33	TM 93150.000	5717.000	90.918%	98.540%	50.980	50.190	49.930	11.010	2891.000	55.400
x		TM 93420.000	5710.000	90.675%	98.208%	50.030	49.880	49.900	12.780	2893.000	55.360
σ		TM 399.200	235.500	0.407%	0.678%	1.214	0.357	0.203	1.691	1.959	0.053
%RSD		TM 0.427	4.125	0.449	0.690	2.426	0.716	0.408	13.230	0.068	0.097

Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:51:25	53.420	49.360	106.000	469.700	93.156%	49.610	61.330	50.050	95.050%	48.180
2	16:51:29	53.650	49.250	105.700	468.900	94.334%	49.200	61.170	49.900	95.826%	47.970
3	16:51:33	53.510	48.890	104.800	466.300	94.857%	49.170	60.320	50.500	96.049%	48.370
x		53.530	49.170	105.500	468.300	94.116%	49.330	60.940	50.150	95.642%	48.170
σ		0.117	0.243	0.638	1.780	0.871%	0.247	0.541	0.313	0.525%	0.196
%RSD		0.219	0.495	0.605	0.380	0.926	0.501	0.888	0.624	0.548	0.407

Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:51:25	47.910	-0.027	23.240	52.200	97.112%	85.400	53.060	49.850	T 97.710%	-0.011
2	16:51:29	47.770	-0.048	23.220	52.040	98.531%	85.370	52.640	50.390	T 97.971%	-0.010
3	16:51:33	47.560	0.004	23.220	52.420	98.815%	85.060	53.180	50.460	T 98.061%	-0.015
x		47.750	-0.024	23.230	52.220	98.152%	85.270	52.960	50.230	T 97.914%	-0.012
σ		0.180	0.026	0.012	0.188	0.912%	0.188	0.286	0.338	T 0.183%	0.003
%RSD		0.378	109.900	0.053	0.359	0.930	0.221	0.540	0.672	T 0.187	22.020

Run	Time	201Hg	205Tl	208Pb	209Bi	238U
		ppb	ppb	ppb	ppb	ppb
1	16:51:25	1.510	48.190	48.490	98.791%	51.810
2	16:51:29	1.369	47.510	48.410	101.204%	51.590
3	16:51:33	1.497	47.420	48.200	101.208%	51.820
x		1.459	47.710	48.370	100.401%	51.740
σ		0.078	0.418	0.148	1.395%	0.131
%RSD		5.352	0.876	0.306	1.389	0.253

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User Pre-dilution: 1.000

Run	Time	7Li	9Be	10B	23Na	25Mg	27Al	28Si	31P	34S	35Cl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:58:33	92.810	95.530	94.300	4981.000	5014.000	4819.000	5161.000	5026.000	134.500	T 2074000.000
2	16:58:37	91.730	94.610	94.390	4960.000	4957.000	4834.000	5112.000	5016.000	139.900	T 2059000.000
3	16:58:41	92.420	95.720	94.830	4973.000	4978.000	4854.000	5222.000	5034.000	129.100	T 2086000.000
x		92.320	95.290	94.510	4971.000	4983.000	4836.000	5165.000	5025.000	134.500	T 2073000.000
σ		0.547	0.594	0.284	10.210	28.790	17.400	55.530	8.983	5.383	T 13480.000
%RSD		0.593	0.623	0.300	0.205	0.578	0.360	1.075	0.179	4.002	T 0.650

Run	Time	39K	43Ca	45Sc-KED	45Sc-CCT	47Ti	51V	52Cr	53Cl O	54Fe	55Mn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:58:33	4859.000	5021.000	86.765%	94.543%	95.140	97.880	99.730	20.030	4918.000	97.900
2	16:58:37	4880.000	4761.000	87.122%	94.508%	99.410	98.860	99.220	19.110	4913.000	97.650
3	16:58:41	4927.000	4942.000	86.097%	93.606%	101.800	99.040	100.100	19.820	4925.000	96.900
x		4889.000	4908.000	86.661%	94.219%	98.770	98.590	99.670	19.650	4918.000	97.480
σ		35.200	133.100	0.520%	0.531%	3.359	0.623	0.417	0.484	6.160	0.521
%RSD		0.720	2.711	0.600	0.564	3.401	0.632	0.418	2.462	0.125	0.534

Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:58:33	98.820	101.200	100.400	101.900	89.266%	97.760	100.000	95.670	91.260%	98.390
2	16:58:37	98.230	101.100	99.300	102.200	90.669%	96.000	96.950	95.850	91.378%	98.770
3	16:58:41	98.380	100.400	99.070	100.100	90.827%	96.310	96.670	96.140	91.281%	98.140
x		98.470	100.900	99.570	101.400	90.254%	96.690	97.880	95.890	91.306%	98.430
σ		0.307	0.446	0.685	1.161	0.859%	0.936	1.853	0.237	0.063%	0.315
%RSD		0.312	0.442	0.688	1.145	0.952	0.968	1.894	0.247	0.069	0.320

Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:58:33	97.550	101.900	51.300	100.000	96.250%	99.570	101.400	98.210	T 96.099%	99.670
2	16:58:37	97.770	102.500	51.650	101.800	96.560%	99.990	101.000	97.990	T 95.570%	99.340
3	16:58:41	97.590	101.800	51.550	102.600	96.793%	99.630	101.400	98.060	T 95.790%	99.230
x		97.640	102.100	51.500	101.500	96.534%	99.730	101.300	98.090	T 95.820%	99.410
σ		0.116	0.336	0.182	1.290	0.272%	0.228	0.218	0.116	T 0.266%	0.230
%RSD		0.118	0.329	0.353	1.271	0.282	0.229	0.215	0.118	T 0.277	0.231

Run	Time	201Hg	205Tl	208Pb	209Bi	238U
		ppb	ppb	ppb	ppb	ppb
1	16:58:33	5.081	96.680	98.250	103.647%	T 100.500
2	16:58:37	4.725	96.760	98.400	105.521%	T 98.340
3	16:58:41	4.899	97.290	98.610	105.389%	T 98.530
x		4.902	96.910	98.420	104.852%	T 99.120
σ		0.178	0.329	0.179	1.046%	T 1.186
%RSD		3.624	0.339	0.182	0.998	T 1.197

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User Pre-dilution: 1.000

Run	Time	7Li	9Be	10B	23Na	25Mg	27Al	28Si	31P	34S	35Cl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:05:43	0.029	0.030	0.136	7.939	6.146	3.307	0.101	10.870	139.000	T 1908000.000
2	17:05:46	0.026	0.013	0.592	6.653	4.454	3.088	3.051	3.034	140.400	T 1930000.000
3	17:05:50	0.044	0.012	0.165	3.720	3.198	1.736	-2.666	-6.428	120.900	T 1918000.000
x		0.033	0.018	0.298	6.104	4.599	2.710	0.162	2.492	133.400	T 1919000.000
σ		0.009	0.010	0.256	2.162	1.480	0.851	2.859	8.661	10.900	T 11080.000
%RSD		28.290	53.880	85.800	35.420	32.170	31.380	1769.000	347.600	8.166	T 0.578

Run	Time	39K	43Ca	45Sc-KED	45Sc-CCT	47Ti	51V	52Cr	53Cl O	54Fe	55Mn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:05:43	4.524	-4.761	90.881%	95.574%	0.097	-0.049	0.046	4.918	4.631	0.052
2	17:05:46	0.551	6.513	91.707%	96.406%	-0.061	-0.150	0.040	5.155	3.561	0.018
3	17:05:50	-5.947	-4.325	91.385%	97.466%	0.138	-0.021	0.036	4.533	3.155	0.015
x		-0.291	-0.858	91.325%	96.482%	0.058	-0.073	0.041	4.869	3.782	0.029
σ		5.286	6.387	0.416%	0.948%	0.105	0.068	0.005	0.314	0.763	0.021
%RSD		1817.000	744.700	0.456	0.983	181.200	92.550	12.620	6.446	20.160	71.720

Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:05:43	0.065	0.047	0.067	0.053	92.557%	0.040	-0.087	0.066	93.938%	0.070
2	17:05:46	0.055	0.024	0.042	-0.062	94.278%	0.029	-0.104	0.035	94.677%	0.040
3	17:05:50	0.031	-0.038	0.027	-0.095	94.894%	-0.092	-0.034	0.023	94.489%	0.033
x		0.050	0.011	0.045	-0.034	93.910%	-0.007	-0.075	0.041	94.368%	0.048
σ		0.018	0.044	0.020	0.078	1.211%	0.073	0.037	0.022	0.384%	0.020
%RSD		34.980	398.900	43.570	226.300	1.289	1010.000	48.730	53.940	0.407	41.460

Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:05:43	0.093	0.080	0.034	0.057	95.012%	0.074	0.063	0.067	T 99.344%	0.056
2	17:05:46	0.061	0.014	0.022	0.050	96.710%	0.041	0.047	0.050	T 100.716%	0.041
3	17:05:50	0.068	0.018	0.016	0.029	96.262%	0.037	0.033	0.034	T 99.299%	0.029
x		0.074	0.038	0.024	0.045	95.995%	0.051	0.048	0.050	T 99.786%	0.042
σ		0.017	0.037	0.009	0.014	0.880%	0.020	0.015	0.017	T 0.806%	0.014
%RSD		22.620	98.530	38.680	31.940	0.917	39.710	31.290	32.860	T 0.807	32.540

Run	Time	201Hg	205Tl	208Pb	209Bi	238U
		ppb	ppb	ppb	ppb	ppb
1	17:05:43	0.003	0.111	0.064	102.331%	0.058
2	17:05:46	0.021	0.090	0.046	103.779%	0.042
3	17:05:50	-0.007	0.067	0.034	103.559%	0.027
x		0.005	0.090	0.048	103.223%	0.042
σ		0.014	0.022	0.015	0.781%	0.015
%RSD		258.600	24.290	31.600	0.756	35.930

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User Pre-dilution: 1.000

Run	Time	7Li	9Be	10B	23Na	25Mg	27Al	28Si	31P	34S	35Cl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:12:50	0.945	1.038	1.196	253.600	255.700	248.600	56.360	63.290	148.700	T 1937000.000
2	17:12:54	0.936	0.925	1.360	249.900	251.600	248.200	53.610	57.180	137.800	T 1958000.000
3	17:12:58	0.957	0.987	1.252	250.000	262.400	246.200	60.570	45.340	129.200	T 1961000.000
x		0.946	0.983	1.269	251.200	256.600	247.600	56.850	55.270	138.600	T 1952000.000
σ		0.010	0.057	0.083	2.092	5.482	1.293	3.508	9.128	9.779	T 13220.000
%RSD		1.102	5.751	6.534	0.833	2.137	0.522	6.172	16.520	7.055	T 0.678

Run	Time	39K	43Ca	45Sc-KED	45Sc-CCT	47Ti	51V	52Cr	53Cl O	54Fe	55Mn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:12:50	235.800	242.700	93.995%	98.463%	1.015	1.071	1.032	4.427	245.200	1.001
2	17:12:54	238.700	247.300	94.190%	100.644%	1.097	0.917	1.038	5.001	251.500	0.980
3	17:12:58	249.000	251.600	94.293%	99.898%	1.073	0.929	1.026	5.237	247.000	1.002
x		241.200	247.200	94.159%	99.668%	1.061	0.972	1.032	4.888	247.900	0.994
σ		6.911	4.450	0.151%	1.108%	0.042	0.086	0.006	0.417	3.281	0.012
%RSD		2.866	1.800	0.161	1.112	3.965	8.831	0.576	8.524	1.324	1.248

Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:12:50	1.002	1.053	1.054	2.222	95.754%	1.033	0.954	0.969	95.982%	1.049
2	17:12:54	1.010	1.062	1.078	2.242	96.890%	0.918	0.770	0.970	97.120%	0.993
3	17:12:58	1.026	1.108	1.092	2.262	98.020%	0.881	0.897	1.047	97.026%	0.996
x		1.012	1.074	1.075	2.242	96.888%	0.944	0.874	0.996	96.709%	1.013
σ		0.012	0.029	0.019	0.020	1.133%	0.079	0.094	0.045	0.632%	0.032
%RSD		1.223	2.733	1.763	0.900	1.169	8.406	10.780	4.495	0.653	3.118

Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:12:50	0.993	1.051	0.536	1.027	98.664%	1.021	1.011	1.001	T 99.647%	1.032
2	17:12:54	0.994	0.992	0.547	1.081	100.051%	1.030	1.077	0.968	T 100.261%	1.039
3	17:12:58	1.013	1.043	0.545	1.087	100.874%	1.039	0.996	1.007	T 100.996%	1.038
x		1.000	1.029	0.542	1.065	99.863%	1.030	1.028	0.992	T 100.301%	1.036
σ		0.011	0.032	0.006	0.033	1.117%	0.009	0.043	0.021	T 0.675%	0.004
%RSD		1.116	3.127	1.086	3.122	1.119	0.898	4.214	2.123	T 0.673	0.347

Run	Time	201Hg	205Tl	208Pb	209Bi	238U
		ppb	ppb	ppb	ppb	ppb
1	17:12:50	0.177	1.003	1.015	102.137%	1.003
2	17:12:54	0.217	1.019	1.014	104.302%	1.012
3	17:12:58	0.251	0.996	1.028	103.693%	0.998
x		0.215	1.006	1.019	103.377%	1.004
σ		0.037	0.012	0.008	1.116%	0.007
%RSD		17.200	1.213	0.785	1.080	0.746

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User Pre-dilution: 1.000

Run	Time	7Li	9Be	10B	23Na	25Mg	27Al	28Si	31P	34S	35Cl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:19:57	4.581	4.691	5.269	497.000	507.400	496.700	268.100	259.200	128.600	T 1986000.000
2	17:20:01	4.832	4.670	4.366	491.300	502.700	494.800	273.400	256.600	125.800	T 1986000.000
3	17:20:05	4.616	4.729	4.689	498.800	507.000	495.000	271.000	257.700	141.000	T 1988000.000
x		4.676	4.696	4.775	495.700	505.700	495.500	270.800	257.800	131.800	T 1987000.000
σ		0.136	0.030	0.458	3.951	2.595	1.006	2.621	1.272	8.085	T 1361.000
%RSD		2.900	0.641	9.582	0.797	0.513	0.203	0.968	0.493	6.134	T 0.068

Run	Time	39K	43Ca	45Sc-KED	45Sc-CCT	47Ti	51V	52Cr	53Cl O	54Fe	55Mn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:19:57	487.000	559.500	94.475%	101.220%	4.752	4.892	4.974	6.063	489.400	4.932
2	17:20:01	486.800	582.100	95.240%	101.420%	3.877	4.697	4.970	6.429	494.500	4.857
3	17:20:05	488.500	563.600	95.252%	102.303%	5.155	4.975	5.031	5.780	492.300	4.841
x		487.400	568.400	94.989%	101.647%	4.595	4.855	4.992	6.091	492.100	4.876
σ		0.957	12.040	0.445%	0.576%	0.653	0.143	0.034	0.325	2.563	0.049
%RSD		0.196	2.118	0.469	0.567	14.220	2.937	0.687	5.343	0.521	0.999

Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:19:57	5.044	5.036	5.110	5.222	98.258%	4.905	4.970	4.811	96.181%	5.051
2	17:20:01	5.040	5.196	5.094	5.407	97.137%	5.016	4.991	4.924	97.607%	5.022
3	17:20:05	5.034	5.243	5.051	5.448	98.053%	4.795	4.651	4.917	97.553%	4.935
x		5.039	5.158	5.085	5.359	97.816%	4.906	4.871	4.884	97.114%	5.002
σ		0.005	0.108	0.031	0.120	0.597%	0.111	0.191	0.063	0.808%	0.060
%RSD		0.095	2.094	0.602	2.245	0.610	2.254	3.916	1.297	0.832	1.206

Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:19:57	4.885	5.268	2.677	5.117	99.498%	4.980	5.136	4.880	T 100.981%	4.876
2	17:20:01	4.859	5.191	2.614	5.238	100.815%	4.947	5.181	4.864	T 100.266%	4.910
3	17:20:05	4.909	5.023	2.642	5.090	101.182%	5.064	5.092	4.842	T 100.679%	4.897
x		4.884	5.161	2.644	5.148	100.498%	4.997	5.136	4.862	T 100.642%	4.895
σ		0.025	0.125	0.032	0.079	0.885%	0.060	0.045	0.019	T 0.359%	0.017
%RSD		0.507	2.422	1.202	1.528	0.881	1.208	0.867	0.391	T 0.357	0.355

Run	Time	201Hg	205Tl	208Pb	209Bi	238U
		ppb	ppb	ppb	ppb	ppb
1	17:19:57	0.458	4.899	4.935	102.323%	4.918
2	17:20:01	0.529	4.879	4.949	103.275%	4.895
3	17:20:05	0.497	4.850	4.904	104.225%	4.875
x		0.495	4.876	4.929	103.274%	4.896
σ		0.036	0.025	0.023	0.951%	0.022
%RSD		7.220	0.504	0.465	0.921	0.442

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User Pre-dilution: 1.000

Run	Time	7Li	9Be	10B	23Na	25Mg	27Al	28Si	31P	34S	35Cl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:27:05	0.250	0.005	0.958	TM 53760.000	M 50210.000	TM 49910.000	12.600	M 54150.000	3666.000	T 2061000.000
2	17:27:09	0.239	0.024	0.558	TM 53940.000	M 51060.000	TM 50370.000	9.973	M 54050.000	3719.000	T 2039000.000
3	17:27:13	0.269	-0.004	0.864	TM 54200.000	M 50900.000	TM 50320.000	7.907	M 54440.000	3710.000	T 2060000.000
x		0.253	0.008	0.793	TM 53970.000	M 50720.000	TM 50200.000	10.160	M 54220.000	3699.000	T 2054000.000
σ		0.015	0.014	0.209	TM 219.800	M 451.300	TM 250.000	2.351	M 201.500	28.330	T 12560.000
%RSD		5.989	168.900	26.410	TM 0.407	M 0.890	TM 0.498	23.140	M 0.372	0.766	T 0.612

Run	Time	39K	43Ca	45Sc-KED	45Sc-CCT	47Ti	51V	52Cr	53Cl O	54Fe	55Mn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:27:05	TM 54150.000	M 53460.000	75.806%	82.600%	M 1027.000	-0.050	-0.008	4.551	TM 54460.000	0.019
2	17:27:09	TM 53890.000	M 52880.000	74.772%	82.940%	M 1038.000	-0.034	0.004	4.471	TM 53940.000	-0.045
3	17:27:13	TM 54420.000	M 53440.000	74.762%	81.997%	M 1042.000	-0.289	-0.002	5.675	TM 54290.000	-0.084
x		TM 54150.000	M 53260.000	75.113%	82.512%	M 1036.000	-0.124	-0.002	4.899	TM 54230.000	-0.037
σ		TM 266.600	M 326.900	0.600%	0.478%	M 7.944	0.143	0.006	0.673	TM 265.600	0.052
%RSD		TM 0.492	M 0.614	0.799	0.579	M 0.767	115.200	295.700	13.740	TM 0.490	141.000

Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:27:05	-0.001	-0.037	0.213	0.069	74.794%	0.054	-0.112	0.533	79.070%	0.061
2	17:27:09	0.003	0.021	0.211	0.196	76.507%	0.085	-0.144	0.515	78.851%	0.060
3	17:27:13	0.002	-0.002	0.239	0.192	76.763%	0.040	-0.087	0.532	79.580%	0.049
x		0.001	-0.006	0.221	0.152	76.021%	0.059	-0.114	0.527	79.167%	0.057
σ		0.002	0.029	0.016	0.072	1.071%	0.023	0.029	0.010	0.374%	0.007
%RSD		162.300	480.800	7.196	47.480	1.409	38.830	25.210	1.956	0.473	12.030

Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:27:05	M 1073.000	-0.028	-0.007	0.091	86.546%	0.153	0.072	0.105	82.307%	0.009
2	17:27:09	M 1069.000	-0.032	0.005	0.087	86.393%	0.135	0.064	0.082	83.115%	0.003
3	17:27:13	M 1067.000	-0.045	-0.005	0.075	87.399%	0.140	0.077	0.084	84.051%	0.002
x		M 1070.000	-0.035	-0.003	0.084	86.779%	0.142	0.071	0.090	83.158%	0.004
σ		M 3.006	0.009	0.006	0.008	0.542%	0.010	0.007	0.013	0.872%	0.004
%RSD		M 0.281	26.330	238.500	9.568	0.625	6.735	9.570	13.830	1.049	79.300

Run	Time	201Hg	205Tl	208Pb	209Bi	238U
		ppb	ppb	ppb	ppb	ppb
1	17:27:05	-0.003	0.001	0.035	89.591%	-0.010
2	17:27:09	0.003	0.002	0.033	90.388%	-0.009
3	17:27:13	0.026	0.001	0.034	91.135%	-0.010
x		0.009	0.001	0.034	90.371%	-0.010
σ		0.015	0.001	0.001	0.772%	0.001
%RSD		173.500	68.330	2.613	0.854	8.045

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User Pre-dilution: 1.000

Run	Time	7Li	9Be	10B	23Na	25Mg	27Al	28Si	31P	34S	35Cl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:34:15	92.280	93.560	98.020	TM 53950.000	M 50760.000	TM 49450.000	5275.000	M 58530.000	3626.000	T 2144000.000
2	17:34:18	92.350	95.400	96.070	TM 53640.000	M 50770.000	TM 49160.000	5309.000	M 58590.000	3680.000	T 2141000.000
3	17:34:22	93.110	94.430	95.270	TM 53330.000	M 50550.000	TM 48950.000	5260.000	M 58220.000	3553.000	T 2142000.000
x		92.580	94.460	96.450	TM 53640.000	M 50690.000	TM 49190.000	5281.000	M 58450.000	3620.000	T 2142000.000
σ		0.458	0.922	1.413	TM 313.400	M 124.300	TM 248.100	25.430	M 198.200	63.360	T 1695.000
%RSD		0.495	0.976	1.465	TM 0.584	M 0.245	TM 0.504	0.482	M 0.339	1.750	T 0.079

Run	Time	39K	43Ca	45Sc-KED	45Sc-CCT	47Ti	51V	52Cr	53Cl O	54Fe	55Mn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:34:15	TM 53640.000	M 52740.000	74.181%	79.399%	M 1128.000	103.500	103.100	19.720	TM 53690.000	101.500
2	17:34:18	TM 53710.000	M 53100.000	74.337%	79.796%	M 1137.000	103.100	103.200	21.300	TM 53290.000	102.900
3	17:34:22	TM 53670.000	M 52790.000	74.535%	79.076%	M 1143.000	104.500	104.800	21.610	TM 53510.000	102.700
x		TM 53670.000	M 52880.000	74.351%	79.423%	M 1136.000	103.700	103.700	20.880	TM 53500.000	102.400
σ		TM 33.120	M 195.600	0.177%	0.361%	M 7.829	0.738	0.938	1.011	TM 201.300	0.758
%RSD		TM 0.062	M 0.370	0.238	0.454	M 0.689	0.711	0.904	4.845	TM 0.376	0.741

Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:34:15	101.800	101.400	99.240	106.000	76.102%	103.900	106.400	101.100	78.977%	100.600
2	17:34:18	103.200	103.400	100.700	105.700	76.057%	105.000	107.400	103.200	79.155%	101.400
3	17:34:22	103.200	103.400	100.900	104.900	76.661%	104.200	105.100	102.900	79.489%	101.000
x		102.700	102.700	100.300	105.500	76.273%	104.400	106.300	102.400	79.207%	101.000
σ		0.797	1.140	0.917	0.565	0.336%	0.565	1.141	1.148	0.260%	0.389
%RSD		0.775	1.110	0.914	0.535	0.441	0.541	1.073	1.121	0.328	0.386

Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:34:15	M 1173.000	100.100	49.740	102.000	87.036%	100.800	103.900	100.500	83.988%	104.700
2	17:34:18	M 1188.000	100.500	50.210	102.600	88.679%	101.200	103.300	99.620	85.056%	105.300
3	17:34:22	M 1175.000	100.800	49.790	102.500	88.354%	101.100	104.900	101.000	84.757%	106.500
x		M 1179.000	100.500	49.910	102.400	88.023%	101.000	104.000	100.400	84.600%	105.500
σ		M 7.829	0.352	0.262	0.308	0.870%	0.199	0.802	0.683	0.551%	0.882
%RSD		M 0.664	0.350	0.526	0.301	0.989	0.197	0.771	0.681	0.651	0.836

Run	Time	201Hg	205Tl	208Pb	209Bi	238U
		ppb	ppb	ppb	ppb	ppb
1	17:34:15	5.081	100.400	100.400	92.353%	107.100
2	17:34:18	5.378	100.600	100.700	93.723%	108.500
3	17:34:22	5.367	101.400	101.000	93.354%	109.800
x		5.275	100.800	100.700	93.144%	108.500
σ		0.168	0.479	0.258	0.709%	1.320
%RSD		3.189	0.475	0.256	0.761	1.217

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User Pre-dilution: 1.000

Run	Time	7Li	9Be	10B	23Na	25Mg	27Al	28Si	31P	34S	35Cl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:41:23	91.240	94.400	94.500	4992.000	4955.000	4835.000	5144.000	4993.000	129.100	T 2065000.000
2	17:41:26	92.970	94.830	93.790	4892.000	5033.000	4822.000	5092.000	4788.000	120.000	T 2023000.000
3	17:41:30	91.890	94.210	93.420	4912.000	4954.000	4832.000	5105.000	4998.000	126.300	T 2044000.000
x		92.040	94.480	93.900	4932.000	4981.000	4830.000	5114.000	4926.000	125.200	T 2044000.000
σ		0.875	0.319	0.551	53.080	45.090	6.759	26.950	119.600	4.686	T 20970.000
%RSD		0.951	0.338	0.587	1.076	0.905	0.140	0.527	2.428	3.744	T 1.026

Run	Time	39K	43Ca	45Sc-KED	45Sc-CCT	47Ti	51V	52Cr	53Cl O	54Fe	55Mn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:41:23	4843.000	4939.000	82.601%	88.885%	96.590	98.800	99.890	19.540	4929.000	97.230
2	17:41:26	4823.000	4845.000	84.006%	89.055%	95.490	97.560	98.710	19.790	4913.000	97.140
3	17:41:30	4867.000	5158.000	84.162%	88.969%	100.800	97.210	99.030	23.730	4890.000	96.920
x		4844.000	4981.000	83.589%	88.970%	97.610	97.860	99.210	21.020	4911.000	97.100
σ		21.790	160.400	0.860%	0.085%	2.780	0.837	0.612	2.350	19.480	0.158
%RSD		0.450	3.220	1.028	0.095	2.848	0.855	0.617	11.180	0.397	0.162

Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:41:23	98.740	102.300	100.200	102.600	86.179%	96.600	98.170	95.230	87.888%	97.950
2	17:41:26	98.260	100.800	99.430	101.800	87.418%	96.730	98.760	94.620	88.349%	98.770
3	17:41:30	98.880	101.100	99.680	103.700	87.186%	97.440	97.610	96.030	88.476%	99.230
x		98.630	101.400	99.780	102.700	86.928%	96.920	98.180	95.300	88.238%	98.650
σ		0.325	0.792	0.412	0.963	0.658%	0.456	0.572	0.707	0.309%	0.649
%RSD		0.329	0.782	0.413	0.938	0.757	0.471	0.582	0.741	0.351	0.658

Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:41:23	97.910	102.200	51.380	101.600	93.202%	99.690	102.000	97.650	92.918%	98.940
2	17:41:26	99.020	102.400	51.540	100.600	93.943%	100.200	102.200	98.070	92.785%	100.400
3	17:41:30	99.820	102.700	51.690	102.100	94.558%	99.560	101.800	96.250	T 94.339%	99.110
x		98.920	102.400	51.540	101.400	93.901%	99.810	102.000	97.320	T 93.347%	99.470
σ		0.957	0.251	0.154	0.772	0.679%	0.321	0.223	0.954	T 0.861%	0.774
%RSD		0.967	0.245	0.299	0.761	0.723	0.322	0.219	0.980	T 0.923	0.778

Run	Time	201Hg	205Tl	208Pb	209Bi	238U
		ppb	ppb	ppb	ppb	ppb
1	17:41:23	4.994	96.440	97.760	103.563%	T 99.480
2	17:41:26	4.930	97.050	98.450	103.982%	T 98.840
3	17:41:30	4.822	95.330	97.180	105.605%	T 98.920
x		4.916	96.280	97.800	104.383%	T 99.080
σ		0.087	0.872	0.638	1.079%	T 0.349
%RSD		1.769	0.906	0.652	1.033	T 0.353

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User Pre-dilution: 1.000

Run	Time	7Li	9Be	10B	23Na	25Mg	27Al	28Si	31P	34S	35Cl
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:48:30	0.028	0.002	0.238	18.690	19.070	18.010	3.859	18.320	127.600	T 1937000.000
2	17:48:34	0.022	0.018	0.582	13.720	10.290	11.690	-1.637	14.040	124.200	T 1904000.000
3	17:48:38	0.033	0.039	0.401	13.060	18.530	12.960	3.525	16.550	139.500	T 1904000.000
x		0.028	0.019	0.407	15.160	15.960	14.220	1.916	16.300	130.400	T 1915000.000
σ		0.005	0.018	0.172	3.078	4.921	3.344	3.081	2.149	7.992	T 18940.000
%RSD		19.350	94.890	42.270	20.300	30.830	23.510	160.900	13.180	6.127	T 0.989

Run	Time	39K	43Ca	45Sc-KED	45Sc-CCT	47Ti	51V	52Cr	53Cl O	54Fe	55Mn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:48:30	2.660	16.120	86.272%	92.554%	0.473	-0.052	0.077	4.725	16.890	0.041
2	17:48:34	-3.918	12.870	88.367%	93.940%	0.248	-0.006	0.073	4.475	13.550	0.022
3	17:48:38	-4.409	15.390	89.112%	94.407%	0.309	-0.010	0.045	4.664	13.150	0.032
x		-1.889	14.790	87.917%	93.634%	0.343	-0.023	0.065	4.621	14.530	0.032
σ		3.947	1.707	1.473%	0.964%	0.116	0.025	0.017	0.131	2.056	0.010
%RSD		208.900	11.540	1.675	1.029	33.880	111.600	26.610	2.827	14.150	30.820

Run	Time	59Co	60Ni	63Cu	66Zn	72Ge	75As	78Se	88Sr	89Y	90Zr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:48:30	0.073	0.068	0.061	0.065	91.139%	-0.026	-0.092	0.066	90.851%	0.067
2	17:48:34	0.040	0.031	0.044	0.242	92.077%	0.005	-0.125	0.042	91.618%	0.060
3	17:48:38	0.044	0.057	0.054	0.019	92.469%	-0.043	0.019	0.051	92.083%	0.050
x		0.052	0.052	0.053	0.109	91.895%	-0.021	-0.066	0.053	91.518%	0.059
σ		0.018	0.019	0.009	0.118	0.684%	0.024	0.075	0.012	0.622%	0.008
%RSD		34.440	36.550	16.740	108.400	0.744	113.300	114.400	23.160	0.680	13.850

Run	Time	95Mo	105Pd	107Ag	111Cd	115In	118Sn	121Sb	137Ba	159Tb	195Pt
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	17:48:30	0.373	0.067	0.039	0.078	93.258%	0.072	0.081	0.057	92.612%	0.081
2	17:48:34	0.277	0.008	0.031	0.034	94.235%	0.052	0.057	0.066	T 97.709%	0.064
3	17:48:38	0.296	0.033	0.024	0.048	94.751%	0.075	0.048	0.067	T 97.272%	0.053
x		0.315	0.036	0.032	0.053	94.081%	0.066	0.062	0.063	T 95.864%	0.066
σ		0.051	0.030	0.007	0.023	0.758%	0.012	0.017	0.006	T 2.825%	0.014
%RSD		16.220	81.630	23.750	42.730	0.806	18.530	27.730	8.936	T 2.947	21.240

Run	Time	201Hg	205Tl	208Pb	209Bi	238U
		ppb	ppb	ppb	ppb	ppb
1	17:48:30	0.019	0.125	0.082	101.908%	0.070
2	17:48:34	0.027	0.104	0.049	102.375%	0.048
3	17:48:38	0.019	0.101	0.055	102.375%	0.055
x		0.022	0.110	0.062	102.219%	0.058
σ		0.004	0.013	0.017	0.269%	0.011
%RSD		20.280	11.750	28.210	0.263	19.690

Prep Log Report

Batch Information: MPRP 20988

Template Version: F-GB-M-035-Rev.03 (21Jun2016)

Prep Method	EPA 3050B	Analysis Method	EPA 6020	Extracted By	BTH	Instrument	40BAL1
Block ID	40HB06	Thermometer ID	151839407	Block Temp (C)	91.6	Correction Factor (C)	0
Corrected Temp. (C)	91.60	Acceptance Range:	95+/-5 C	Digestion Start Time	08/27/2019 08:01:56:224	Digestion End Time	08/27/2019 12:29:13:542
Solid Matrix Lot	230312	Digestion Vessel	231161	Metals Pipette 1	40PPT69	Reviewed By	DS1
Reviewed By Date	08/28/2019 07:12	Batch Notes	HBN 331833				

Sample Information:

QC Rule	Sample Type	Lab Sample ID	Select	Matrix	Initial Weight (g)	1:1 HNO3 (mL)	H2O2 (mL)	Conc. HCL (mL)	Final Volume (mL)	Due Date	Sample Notes	MDL / EQL	6000-SPKB (mL)	6000-SPKB2 (mL)
6020 T_P	BLANK	**1925391**	Y	Tissue	0.5	232907 (10)	223589 (5)	225130 (2.5)	50	9/20/19		J		
6020 T_P	SBLK	**1925392**	Y	Tissue	0.5	232907 (10)	223589 (5)	225130 (2.5)	50	9/20/19		J		
6020 T_P	LCS	**1925393**	Y	Tissue	0.5	232907 (10)	223589 (5)	225130 (2.5)	50	9/20/19		J	233262 (0.25)	229194 (1)
6020 T_P	SRM	**1925394**	Y	Tissue	0.5	232907 (10)	223589 (5)	225130 (2.5)	50	9/20/19		J		
6020 T_P	PS	**40193369001**	Y	Tissue	0.5028	232907 (10)	223589 (5)	225130 (2.5)	50	9/20/19		J		
6020 T_P	MS	**1925395**	Y	Tissue	0.5019	232907 (10)	223589 (5)	225130 (2.5)	50	9/20/19		J	233262 (0.25)	229194 (1)
6020 T_P	MSD	**1925396**	Y	Tissue	0.5035	232907 (10)	223589 (5)	225130 (2.5)	50	9/20/19		J	233262 (0.25)	229194 (1)
6020 T_P	PS	**40193369002**	Y	Tissue	0.5001	232907 (10)	223589 (5)	225130 (2.5)	50	9/20/19		J		
6020 T_P	PS	**40193369003**	Y	Tissue	0.5023	232907 (10)	223589 (5)	225130 (2.5)	50	9/20/19		J		
6020 T_P	PS	**40193369004**	Y	Tissue	0.525	232907 (10)	223589 (5)	225130 (2.5)	50	9/20/19		J		
6020 T_P	PS	**40193369005**	Y	Tissue	0.5073	232907 (10)	223589 (5)	225130 (2.5)	50	9/20/19		J		
6020 T_P	PS	**40193369006**	Y	Tissue	0.5021	232907 (10)	223589 (5)	225130 (2.5)	50	9/20/19		J		
6020 T_P	PS	**40193369007**	Y	Tissue	0.5103	232907 (10)	223589 (5)	225130 (2.5)	50	9/20/19		J		
6020 T_P	PS	**40193369008**	Y	Tissue	0.5249	232907 (10)	223589 (5)	225130 (2.5)	50	9/20/19		J		
6020 T_P	PS	**40193369009**	Y	Tissue	0.5012	232907 (10)	223589 (5)	225130 (2.5)	50	9/20/19		J		
6020 T_P	PS	**40193369010**	Y	Tissue	0.5264	232907 (10)	223589 (5)	225130 (2.5)	50	9/20/19		J		
6020 T_P	PS	**40193369011**	Y	Tissue	0.5187	232907 (10)	223589 (5)	225130 (2.5)	50	9/20/19		J		

Prep Log Report

40193697

QC Rule	Sample Type	Lab Sample ID	Select	Matrix	Initial Weight (g)	1:1 HNO3 (mL)	H2O2 (mL)	Conc. HCL (mL)	Final Volume (mL)	Due Date	Sample Notes	MDL / EQL	6000-SPKB (mL)	6000-SPKB2 (mL)
6020 T_P	PS	**40193369012**	Y	Tissue	0.5286	232907 (10)	223589 (5)	225130 (2.5)	50	9/20/19		J		
6020 T_P	PS	**40193694001**	Y	Tissue	0.5068	232907 (10)	223589 (5)	225130 (2.5)	50	9/23/19		J		
6020 T_P	PS	**40193697001**	Y	Tissue	0.5064	232907 (10)	223589 (5)	225130 (2.5)	50	9/23/19		J		
6020 T_P	PS	**40193698001**	Y	Tissue	0.5066	232907 (10)	223589 (5)	225130 (2.5)	50	9/23/19		J		
6020 T_P	PS	**40193698002**	Y	Tissue	0.5051	232907 (10)	223589 (5)	225130 (2.5)	50	9/23/19		J		
6020 T_P	PS	**40193365013**	Y	Tissue	0.5046	232907 (10)	223589 (5)	225130 (2.5)	50	9/20/19	1*	J		
6020 T_P	PS	**40193369013**	Y	Tissue	0.5082	232907 (10)	223589 (5)	225130 (2.5)	50	9/23/19	1*	J		

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QC Rule	Sample Type	Lab Sample ID	6000-SPKB3 (mL)	CAL-STD
6020 T_P	BLANK	**1925391**		
6020 T_P	SBLK	**1925392**		
6020 T_P	LCS	**1925393**	228366 (0.25)	
6020 T_P	SRM	**1925394**		229870 (.5)
6020 T_P	PS	**40193369001**		
6020 T_P	MS	**1925395**	228366 (0.25)	
6020 T_P	MSD	**1925396**	228366 (0.25)	
6020 T_P	PS	**40193369002**		
6020 T_P	PS	**40193369003**		
6020 T_P	PS	**40193369004**		
6020 T_P	PS	**40193369005**		
6020 T_P	PS	**40193369006**		
6020 T_P	PS	**40193369007**		

Prep Log Report

QC Rule	Sample Type	Lab Sample ID	6000-SPKB3 (mL)	CAL-STD
6020 T_P	PS	**40193369008**		
6020 T_P	PS	**40193369009**		
6020 T_P	PS	**40193369010**		
6020 T_P	PS	**40193369011**		
6020 T_P	PS	**40193369012**		
6020 T_P	PS	**40193694001**		
6020 T_P	PS	**40193697001**		
6020 T_P	PS	**40193698001**		
6020 T_P	PS	**40193698002**		
6020 T_P	PS	**40193365013**		
6020 T_P	PS	**40193369013**		

Sample Notes:

1*: Started 8/27/19 @ 1400

Standard Notes:

228366: Biota Spike Silver

229194: TVA Supplemental Spike

229870: Metals SRM TORT-3 - Rec'd 07/9/19

233262: ICPMS Biota Spike

SAMPLE NO.

WBF-ACP-EB01-20190812

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40193697 Contract: 426799 WATTS BAR FOSSIL

Lab Sample ID: 40193697001 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
7439-97-6	Mercury	<0.0075	U	mg/kg	1	09/04/2019 12:08

FORM II INORGANIC-1

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Pace Analytical - Green Bay SDG No. : 40193697 Contract: 426799 WATTS BAR FOSSIL PLANT

Initial Calibration Verification Source: 234174

Continuing Calibration Verification Source:

Concentration Units: mg/kg Instrument ID: 40HG4

	Initial Calibration Verification				Continuing Calibration Verification						
	09/04/2019 07:38				09/04/2019 11:08			09/04/2019 12:54			Control Limit
Analyte	True	Found	%R	Control Limit	True	Found	%R	True	Found	%R	
Mercury	5.0	4.9	97.5	90-110	4.19	4.1	98.4	4.19	4.3	102.7	80-120

FORM II INORGANIC-1

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Pace Analytical - Green Bay SDG No. : 40193697 Contract: 426799 WATTS BAR FOSSIL PLANT

Initial Calibration Verification Source: 234173

Continuing Calibration Verification Source:

Concentration Units: mg/kg Instrument ID: 40HG4

	Initial Calibration Verification				Continuing Calibration Verification						
	09/04/2019 07:27				09/04/2019 10:57			09/04/2019 12:43			Control Limit
Analyte	True	Found	%R	Control Limit	True	Found	%R	True	Found	%R	
Mercury	0.3	0.29	96.5	90-110	0.29	0.27	92.3	0.29	0.27	93.2	80-120

FORM II INORGANIC-1

CRDL CHECK STANDARD

Lab Name: Pace Analytical - Green Bay SDG No. : 40193697 Contract: 426799 WATTS BAR FOSSIL PLANT

CRDL Check Standard Source: 234091 Analysis Date/Time: 09/04/2019 08:21

Concentration Units: mg/kg

Analyte	CRDL Check Standard			
	True	Found	%R	Control Limit %R
Mercury	0.08	0.083	104.0	60-140

FORM III INORGANIC-1

BLANKS

Lab Name: Pace Analytical - Green Bay SDG No. : 40193697 Contract : 426799 WATTS BAR FOSSIL PLANT

Method Blank Matrix: Tissue Instrument ID: 40HG4

Method Blank Concentration Units: mg/kg

Analyte	Initial Calibration Blank (mg/kg)		Continuing Calibration Blank (mg/kg)						Method Blank	
	09/04/2019 07:56	C	09/04/2019 11:23	C	09/04/2019 13:09	C		C	1930604	C
Mercury	0.020	U	0.020	U	0.020	U			0.012	J

SAMPLE NO.

1930606MS

FORM V INORGANIC-1

MATRIX SPIKE SAMPLE RECOVERY

Lab Name: Pace Analytical - Green Bay SDG No. : 40193697 Contract: 426799 WATTS BAR FOSSIL

Matrix: Tissue Basis: Wet Parent Sample ID: 40193368001

Percent Moisture:

Analyte	Units	Control Limit %R	Spiked Sample Result (SSR)	Sample Result (SR)	Spike Added (SA)	%R
Mercury	mg/kg	80-120	0.15	0.0084J	0.15	92

SAMPLE NO.

1930607MSD

FORM V INORGANIC-2

MATRIX SPIKE SAMPLE RECOVERY

Lab Name: Pace Analytical - Green Bay SDG No. : 40193697 Contract: 426799 WATTS BAR FOSSIL

Matrix: Tissue Basis: Wet Parent Sample ID: 40193368001

Percent Moisture:

Analyte	Units	Control Limit %R	Spiked Sample Result (SSR)	Sample Result (SR)	Spike Added (SA)	%R
Mercury	mg/kg	80-120	0.15	0.0084J	0.15	93

SAMPLE NO.

1930607MSD

FORM VI INORGANIC-1
DUPLICATES

Lab Name: Pace Analytical - Green Bay SDG No. : 40193697 Contract: 426799 WATTS BAR FOSSIL

Matrix: Tissue Concentration Units: mg/kg

Percent Moisture: Basis: Wet

Analyte	Control Limit	Sample	Duplicate	RPD
Mercury	20	0.15	0.15	1

SAMPLE NO.

1930605LCS

FORM VII INORGANIC-1
LABORATORY CONTROL SAMPLE

Lab Name: Pace Analytical - Green Bay SDG No. : 40193697 Contract: 426799 WATTS BAR FOSSIL

Matrix: Tissue

Analyte	Units	True	Found	%R	Limits	
Mercury	mg/kg	0.25	0.28	110	80	120

FORM IX INORGANIC-1
INSTRUMENT DETECTION LIMITS

Lab Name: Pace Analytical - Green Bay SDG No. : 40193697 Contract: 426799 WATTS BAR FOSSIL PLANT

Preparation Method: None Instrument ID: 40HG4

Concentration Units: mg/kg

Analyte	PQL	IDL	IDL Date
Mercury	0.020	0.020	11/04/2011

FORM IX INORGANIC-2
METHOD DETECTION LIMITS

Lab Name: Pace Analytical - Green Bay SDG No. : 40193697 Contract: 426799 WATTS BAR FOSSIL PLANT

Preparation Method: Instrument ID: 40HG4

Concentration Units: mg/kg

Analyte	PQL	MDL	MDL Date
Mercury	0.025	0.0076	07/15/2019

FORM XIII INORGANIC-1

ANALYSIS RUN LOG

Lab Name: Pace Analytical - Green Bay SDG No. : 40193697 Contract: 426799 WATTS BAR FOSSIL PLANT

Instrument ID: 40HG4 Analysis Method: EPA 7473

Start Date: 07/12/2019 07:04 End Date: 09/04/2019 13:09

Sample Name	Lab Sample ID	D/F	Date	Time	Hg
12498288CAL0	12498288CAL0	1	07/12/2019	07:04	X
12498289CAL1	12498289CAL1	1	07/12/2019	07:18	X
12498290CAL2	12498290CAL2	1	07/12/2019	07:33	X
12498291CAL3	12498291CAL3	1	07/12/2019	07:47	X
12498292CAL4	12498292CAL4	1	07/12/2019	07:59	X
12498293CAL5	12498293CAL5	1	07/12/2019	08:21	X
12498294CAL6	12498294CAL6	1	07/12/2019	08:36	X
12498295CAL7	12498295CAL7	1	07/12/2019	08:50	X
12498296CAL8	12498296CAL8	1	07/12/2019	09:08	X
12498297CAL9	12498297CAL9	1	07/12/2019	09:23	X
12498298CAL10	12498298CAL10	1	07/12/2019	09:37	X
12720771ICVB	12720771ICVB	1	09/04/2019	07:27	X
12720772ICVA	12720772ICVA	1	09/04/2019	07:38	X
12720773ICB	12720773ICB	1	09/04/2019	07:56	X
12720774CRDL	12720774CRDL	1	09/04/2019	08:21	X
1930604BLANK	1930604	1	09/04/2019	08:33	X
1930605LCS	1930605	1	09/04/2019	08:44	X
40193368001	40193368001	1	09/04/2019	09:27	X
1930606MS	1930606	1	09/04/2019	09:37	X
1930607MSD	1930607	1	09/04/2019	09:48	X
12720775CCVB	12720775CCVB	1	09/04/2019	10:57	X
12720776CCVA	12720776CCVA	1	09/04/2019	11:08	X
12720777CCB	12720777CCB	1	09/04/2019	11:23	X
WBF-ACP-EB01-20190812	40193697001	1	09/04/2019	12:08	X
12720778CCVB	12720778CCVB	1	09/04/2019	12:43	X
12720779CCVA	12720779CCVA	1	09/04/2019	12:54	X
12720780CCB	12720780CCB	1	09/04/2019	13:09	X

Sample listing "07122019A_40HG4_AJD.d80"

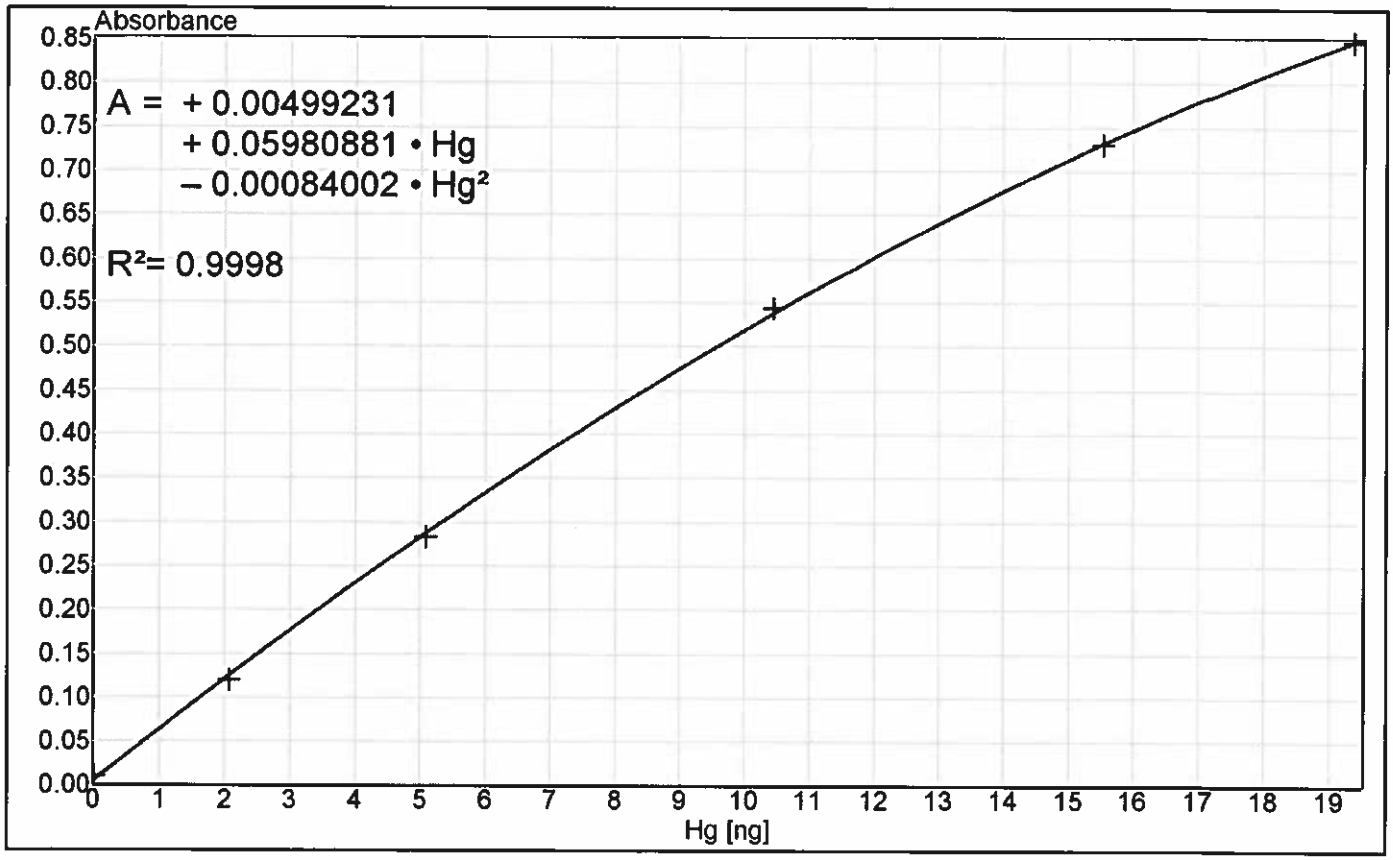
Created by "Administrator"
12.07.2019 10:05:22

Pos Nr.	Samplename Remark	Amount Date	State Date	Height	Hg [ng]	Concentr. [mg/kg]	Σ	Cal-Factor	Calibration file Date	Method file Date
- 1	PURGE 7-12-19 AJD	0.0000 g 12.07.19 06:52	B 12.07.19 06:52	0.0013	0.0193			1.0000	06202019CAL.c80 20.06.19 12:03	
- 2	PURGE 7-12-19 AJD	0.0000 g 12.07.19 06:52	B 12.07.19 06:55	0.0011	0.0153			1.0000	06202019CAL.c80 20.06.19 12:03	
- 3	PURGE 7-12-19 AJD	0.0000 g 12.07.19 06:52	B 12.07.19 06:59	0.0011	0.0153			1.0000	06202019CAL.c80 20.06.19 12:03	
1 4	CAL0 228468_11861	0.0258 g 12.07.19 07:03	C 12.07.19 07:04	0.0103	0.0000	0.0000		1.0000	<data not saved> 12.07.19 07:14	7473 Biota.m80 31.10.11 13:06
1 5	CAL1 230126_11861	0.0258 g 12.07.19 07:16	C 12.07.19 07:18	0.1195	2.0640	0.0800		1.0000	<data not saved> 12.07.19 07:27	7473 Biota.m80 31.10.11 13:06
1 6	CAL2 230127_11861	0.0254 g 12.07.19 07:32	C 12.07.19 07:33	0.2830	5.0800	0.2000		1.0000	<data not saved> 12.07.19 07:42	7473 Biota.m80 31.10.11 13:06
1 7	CAL3 230128_11861	0.0261 g 12.07.19 07:46	C 12.07.19 07:47	0.5438	10.4400	0.4000		1.0000	<data not saved> 12.07.19 07:56	7473 Biota.m80 31.10.11 13:06
1 8	CAL4 230129_11861	0.0259 g 12.07.19 07:58	C 12.07.19 07:59	0.7305	15.5400	0.6000		1.0000	<data not saved> 12.07.19 08:09	7473 Biota.m80 31.10.11 13:06
1 9	CAL5 230130_11861	0.0242 g 12.07.19 08:20	C 12.07.19 08:21	0.8473	19.3600	0.8000		1.0000	<data not saved> 12.07.19 08:30	7473 Biota.m80 31.10.11 13:06
1 10	CAL6 230131_11861	0.0255 g 12.07.19 08:33	C 12.07.19 08:36	0.0469	51.0000	2.0000		1.0000	<data not saved> 12.07.19 08:45	7473 Biota.m80 31.10.11 13:06
1 11	CAL7 230132_11861	0.0256 g 12.07.19 08:49	C 12.07.19 08:50	0.0958	102.4000	4.0000		1.0000	<data not saved> 12.07.19 09:00	7473 Biota.m80 31.10.11 13:06
- 12	auto BV (1)	0.0000 g 12.07.19 09:00	B 12.07.19 09:00	0.0029	0.0000			1.0000	07122019cal.c80 12.07.19 08:49	
1 13	CAL8 230133_11861	0.0258 g 12.07.19 09:07	C 12.07.19 09:08	0.1452	154.8000	6.0000		1.0000	<data not saved> 12.07.19 09:18	7473 Biota.m80 31.10.11 13:06
- 14	auto BV (1)	0.0000 g 12.07.19 09:18	B 12.07.19 09:18	0.0045	0.0000			1.0000	07122019cal.c80 12.07.19 09:07	
1 15	CAL9 230134_11861	0.0256 g 12.07.19 09:22	C 12.07.19 09:23	0.1902	204.8000	8.0000		1.0000	<data not saved> 12.07.19 09:32	7473 Biota.m80 31.10.11 13:06
- 16	auto BV (1)	0.0000 g 12.07.19 09:33	B 12.07.19 09:32	0.0056	0.0102			1.0000	07122019cal.c80 12.07.19 09:22	
1 17	CAL10 230135_11861	0.0250 g 12.07.19 09:37	C 12.07.19 09:37	0.2328	250.0000	10.0000		1.0000	<data not saved> 12.07.19 09:47	7473 Biota.m80 31.10.11 13:06
- 18	auto BV (1)	0.0000 g 12.07.19 09:47	B 12.07.19 09:47	0.0080	0.0503			1.0000	07122019cal.c80 12.07.19 09:37	

Calibration data "07122019cal.c80"

Created by "Administrator" at
12.07.2019 10:04:39

Cell 1

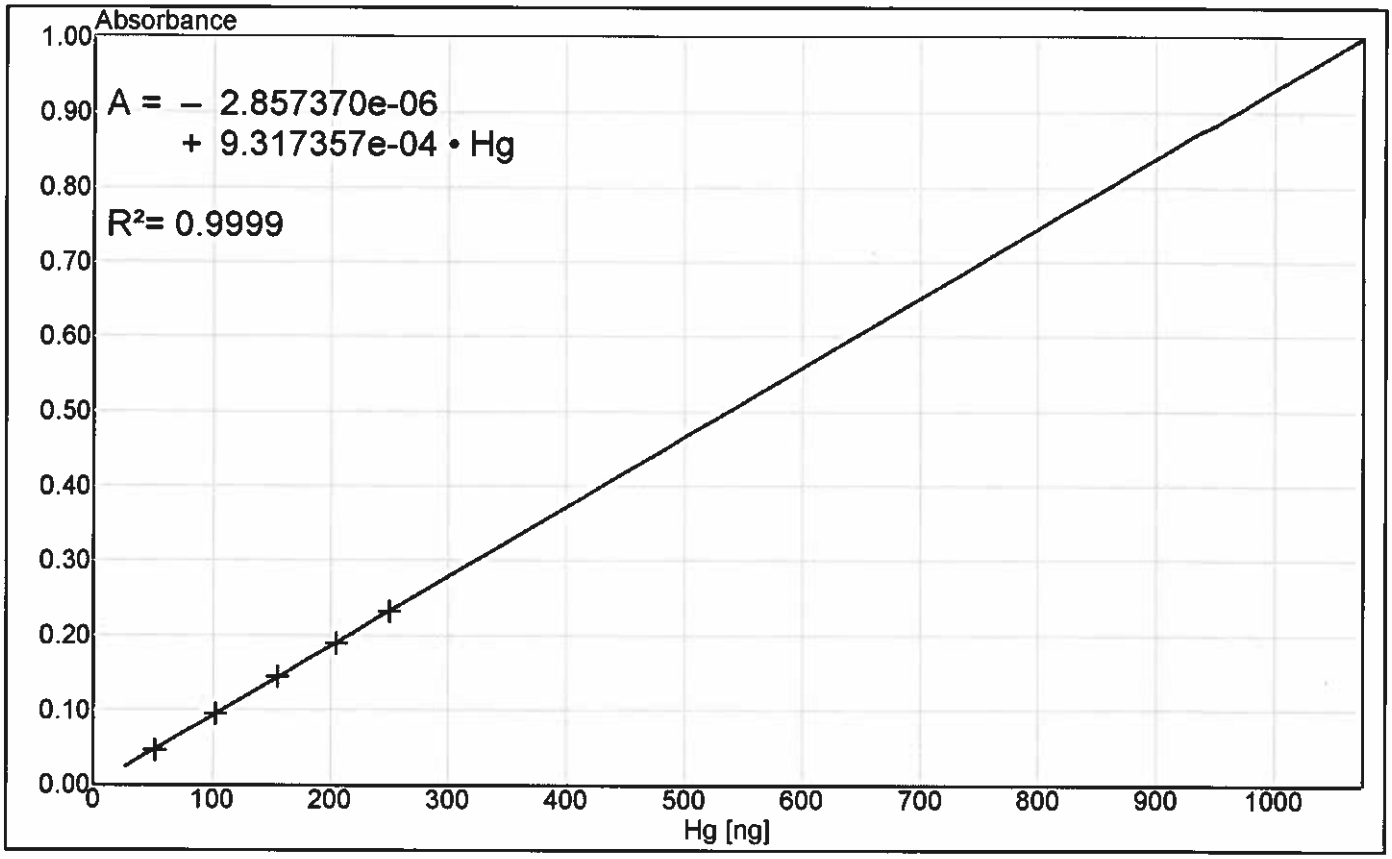


Nr.		Hg [ng]	Height ^	Error ⊿E [%]	Date	Remarks
1	✔	0.0000	0.0103	0.0053	12.07.2019 07:14:17	
2	✔	2.0640	0.1195	-0.0054	12.07.2019 07:27:43	
3	✔	5.0800	0.2830	-0.0041	12.07.2019 07:42:51	
4	✔	10.4400	0.5438	0.0060	12.07.2019 07:56:50	
5	✔	15.5400	0.7305	-0.0011	12.07.2019 08:09:22	
6	✔	19.3600	0.8473	-0.0007	12.07.2019 08:30:47	

Calibration data "07122019cal.c80"

Created by "Administrator" at
12.07.2019 10:04:39

Cell 2



Nr.		Hg [ng]	Height ^	Error ⊿E [%]	Date	Remarks
1	✔	51.0000	0.0469	-0.0006	12.07.2019 08:45:54	
2	✔	102.4000	0.0958	0.0004	12.07.2019 09:00:18	
3	✔	154.8000	0.1452	0.0010	12.07.2019 09:18:15	
4	✔	204.8000	0.1902	-0.0006	12.07.2019 09:33:05	
5	✔	250.0000	0.2328	-0.0001	12.07.2019 09:47:42	

40193697

Sample listing "090420019A_40HG4_AJD.d80"

Created by "Administrator"
05.09.2019 06:24:20

Pos Nr.	Samplename / Remark	Amount / Date	State / Date	Height	Hg [ng]	Concentr. [mg/kg]	Σ	Cal-Factor	Calibration file / Date	Method file / Date
1	PURGE 9-4-19 AJD	0.0000 g 04.09.19 07:15	✔ B 04.09.19 07:15	0.0007	0.0000			1.0000	07122019cal.c80 12.07.19 10:04	
2	PURGE 9-4-19 AJD	0.0000 g 04.09.19 07:15	✔ B 04.09.19 07:18	0.0002	0.0000			1.0000	07122019cal.c80 12.07.19 10:04	
3	PURGE 9-4-19 AJD	234092 7473-ICVB LOT NA EXP 04-SEP-19 0.0000 g 09.19 07:15	✔ B 04.09.19 07:21	0.0002	0.0000			1.0000	07122019cal.c80 12.07.19 10:04	
4	1 ICVB 234092_12021 96%	0.0257 g 09.19 07:26	✔ 04.09.19 07:27	0.4034	7.4385	0.2894		1.0000	07122019cal.c80 12.07.19 10:04	7473 Biota.m80 31.10.11 13:06
5	1 ICVA 234093_12021 98%	234093 7473-ICVA LOT NA EXP 04-SEP-19 .0249 g 09.19 07:37	✔ 04.09.19 07:38	0.1131	121.3894	4.8751		1.0000	07122019cal.c80 12.07.19 10:04	7473 Biota.m80 31.10.11 13:06
6	auto BV (1)	0.0000 g 4.09.19 07:48	✔ B 04.09.19 07:48	0.0198	0.2485			1.0000	07122019cal.c80 12.07.19 10:04	
7	1 ICB 234094_12021 <0.02	234094 7473-CALB LOT NA EXP 04-SEP-19 0.1000 g 4.09.19 07:56	✔ 04.09.19 07:56	0.1014	1.6502	0.0165		1.0000	07122019cal.c80 12.07.19 10:04	7473 Biota.m80 31.10.11 13:06
8	1 CRDL 234091_12021 104%	.0256 g 09.19 08:21	✔ 04.09.19 08:21	0.1285	2.1287	0.0832		1.0000	07122019cal.c80 12.07.19 10:04	7473 Biota.m80 31.10.11 13:06
9	1 1930604_12019 230312 <0.02	234091 7473-CAL1 LOT NA EXP 04-SEP-19 .1004 g 04.09.19 08:31	✔ 04.09.19 08:33	0.0747	1.1852	0.0118		1.0000	07122019cal.c80 12.07.19 10:04	7473 Biota.m80 31.10.11 13:06
10	2 1930605_12019 218069 110%	0.0490 g 04.09.19 08:43	✔ 04.09.19 08:44	0.6659	13.6770	0.2791		1.0000	07122019cal.c80 12.07.19 10:04	7473 Biota.m80 31.10.11 13:06
11	3 40193368001_12019	0.1004 g 04.09.19 08:58	✔ 04.09.19 09:27	0.0546	0.8393	0.0084		1.0000	07122019cal.c80 12.07.19 10:04	7473 Biota.m80 31.10.11 13:06
12	4 1930606_12019	0.1002 g 04.09.19 09:06	✔ 04.09.19 09:37	0.7015	14.6677	0.1464		1.0000	07122019cal.c80 12.07.19 10:04	7473 Biota.m80 31.10.11 13:06
13	5 1930607_12019	0.1000 g 04.09.19 09:07	✔ 04.09.19 09:48	0.7033	14.7174	0.1472		1.0000	07122019cal.c80 12.07.19 10:04	7473 Biota.m80 31.10.11 13:06
14	6 40193368002_12019	0.1080 g 04.09.19 09:08	✔ 04.09.19 09:59	0.0767	1.2198	0.0113		1.0000	07122019cal.c80 12.07.19 10:04	7473 Biota.m80 31.10.11 13:06
15	7 40193368003_12019	0.1015 g 04.09.19 09:09	✔ 04.09.19 10:11	0.0848	1.3604	0.0134		1.0000	07122019cal.c80 12.07.19 10:04	7473 Biota.m80 31.10.11 13:06
16	8 40193368004_12019	0.1013 g 04.09.19 09:10	✔ 04.09.19 10:22	0.0703	1.1092	0.0109		1.0000	07122019cal.c80 12.07.19 10:04	7473 Biota.m80 31.10.11 13:06
17	9 40193368005_12019	0.1005 g 04.09.19 09:11	✔ 04.09.19 10:34	0.0374	0.5460	0.0054		1.0000	07122019cal.c80 12.07.19 10:04	7473 Biota.m80 31.10.11 13:06
18	10 40193368006_12019	0.1078 g 04.09.19 09:13	✔ 04.09.19 10:45	0.0677	1.0644	0.0099		1.0000	07122019cal.c80 12.07.19 10:04	7473 Biota.m80 31.10.11 13:06
19	11 CCVB 229870_12021 92%	0.0272 g 04.09.19 09:15	✔ 04.09.19 10:57	0.3961	7.2846	0.2678		1.0000	07122019cal.c80 12.07.19 10:04	7473 Biota.m80 31.10.11 13:06
20	12 CCVA 146935_12021 98%	0.0272 g 04.09.19 09:16	✔ 04.09.19 11:08	0.1045	112.1593	4.1235		1.0000	07122019cal.c80 12.07.19 10:04	7473 Biota.m80 31.10.11 13:06
21	auto BV (1)	0.0000 g 04.09.19 11:20	✔ B 04.09.19 11:20	0.0067	0.0286			1.0000	07122019cal.c80 12.07.19 10:04	

Sample listing "09042019A_40HG4_AJD.d80"

Created by "Administrator"
05.09.2019 06:24:20

Pos Nr.	Samplename Remark	Amount Date	State Date	Height	Hg [ng]	Concentr. [mg/kg]	Σ	Cal-Factor	Calibration file Date	Method file Date
13 22	CCB 234094_12021 <0.02	0.1000 g 04.09.19 09:18	✓ 04.09.19 11:23	0.0090	0.0671	0.0007		1.0000	07122019cal.c80 12.07.19 10:04	7473 Biota.m80 31.10.11 13:06
14 23	40193368007_12019	0.1087 g 04.09.19 09:18	✓ 04.09.19 11:34	0.0975	1.5819	0.0146		1.0000	07122019cal.c80 12.07.19 10:04	7473 Biota.m80 31.10.11 13:06
15 24	40193368008_12019	0.1037 g 04.09.19 09:19	✓ 04.09.19 11:45	0.0472	0.7128	0.0069		1.0000	07122019cal.c80 12.07.19 10:04	7473 Biota.m80 31.10.11 13:06
16 25	40193694001_12019	0.1021 g 04.09.19 09:20	✓ 04.09.19 11:57	0.0022	0.0000	0.0000		1.0000	07122019cal.c80 12.07.19 10:04	7473 Biota.m80 31.10.11 13:06
17 26	40193697001-12019	0.1013 g 04.09.19 09:21	✓ 04.09.19 12:08	0.0013	0.0000	0.0000		1.0000	07122019cal.c80 12.07.19 10:04	7473 Biota.m80 31.10.11 13:06
18 27	40193698001_12019	0.1007 g 04.09.19 09:23	✓ 04.09.19 12:20	0.0011	0.0000	0.0000		1.0000	07122019cal.c80 12.07.19 10:04	7473 Biota.m80 31.10.11 13:06
19 28	40193698002_12019	0.1008 g 04.09.19 09:24	✓ 04.09.19 12:31	0.0011	0.0000	0.0000		1.0000	07122019cal.c80 12.07.19 10:04	7473 Biota.m80 31.10.11 13:06
20 29	CCVB 229870_12021 93%	0.0271 g 04.09.19 09:24	✓ 04.09.19 12:43	0.3982	7.3288	0.2704		1.0000	07122019cal.c80 12.07.19 10:04	7473 Biota.m80 31.10.11 13:06
21 30	CCVA 146935_12021 103%	0.0271 g 04.09.19 09:26	✓ 04.09.19 12:54	0.1086	116.5597	4.3011		1.0000	07122019cal.c80 12.07.19 10:04	7473 Biota.m80 31.10.11 13:06
31	auto BV (1)	0.0000 g 04.09.19 13:06	✓ B 04.09.19 13:06	0.0056	0.0102			1.0000	07122019cal.c80 12.07.19 10:04	
22 32	CCB 234094_12021 <0.02	0.1000 g 04.09.19 09:27	✓ 04.09.19 13:09	0.0074	0.0403	0.0004		1.0000	07122019cal.c80 12.07.19 10:04	7473 Biota.m80 31.10.11 13:06
23 33	1930612_12020 230312 <0.02	0.1000 g 04.09.19 13:23	✓ 04.09.19 13:24	0.0118	0.1140	0.0011		1.0000	07122019cal.c80 12.07.19 10:04	7473 Biota.m80 31.10.11 13:06
24 34	1930613-12020 218069 103%	0.0490 g 04.09.19 13:37	✓ 04.09.19 13:38	0.6326	12.7917	0.2611		1.0000	07122019cal.c80 12.07.19 10:04	7473 Biota.m80 31.10.11 13:06
25 35	40193365001_12020	0.1031 g 04.09.19 13:49	✓ 04.09.19 14:16	0.0810	1.2944	0.0126		1.0000	07122019cal.c80 12.07.19 10:04	7473 Biota.m80 31.10.11 13:06
26 36	1930614_12020	0.1035 g 04.09.19 13:51	✓ 04.09.19 14:26	0.7109	14.9349	0.1443		1.0000	07122019cal.c80 12.07.19 10:04	7473 Biota.m80 31.10.11 13:06
27 37	1930615_12020	0.1031 g 04.09.19 13:54	✓ 04.09.19 14:37	0.7048	14.7618	0.1432		1.0000	07122019cal.c80 12.07.19 10:04	7473 Biota.m80 31.10.11 13:06
28 38	40193365002_12020	0.1030 g 04.09.19 13:55	✓ 04.09.19 14:49	0.0874	1.4056	0.0136		1.0000	07122019cal.c80 12.07.19 10:04	7473 Biota.m80 31.10.11 13:06
29 39	40193365003_12020	0.1027 g 04.09.19 13:55	✓ 04.09.19 15:00	0.0863	1.3865	0.0135		1.0000	07122019cal.c80 12.07.19 10:04	7473 Biota.m80 31.10.11 13:06
30 40	40193365004_12020	0.1092 g 04.09.19 13:56	✓ 04.09.19 15:12	0.0633	0.9886	0.0091		1.0000	07122019cal.c80 12.07.19 10:04	7473 Biota.m80 31.10.11 13:06
31 41	40193365005_12020	0.1001 g 04.09.19 13:57	✓ 04.09.19 15:23	0.0842	1.3499	0.0135		1.0000	07122019cal.c80 12.07.19 10:04	7473 Biota.m80 31.10.11 13:06
32 42	40193365006_12020	0.1040 g 04.09.19 13:59	✓ 04.09.19 15:34	0.0687	1.0816	0.0104		1.0000	07122019cal.c80 12.07.19 10:04	7473 Biota.m80 31.10.11 13:06

Sample listing "09042019A_40HG4_AJD.d80"

Created by "Administrator"
05.09.2019 06:24:20

Pos Nr.	Samplename Remark	Amount Date	State Date	Height	Hg [ng]	Concentr. [mg/kg]	Σ	Cal-Factor	Calibration file Date	Method file Date
33 43	CCVB 229870_12021 92%	0.0273 g 04.09.19 14:01	✓ 04.09.19 15:46	0.3969	7.3014	0.2675		1.0000	07122019cal.c80 12.07.19 10:04	7473 Biota.m80 31.10.11 13:06
34 44	CCVA 146935_12021 101%	0.0271 g 04.09.19 14:02	✓ 04.09.19 15:57	0.1073	115.1645	4.2496		1.0000	07122019cal.c80 12.07.19 10:04	7473 Biota.m80 31.10.11 13:06
- 45	auto BV (1)	0.0000 g 04.09.19 16:10	✓ B 04.09.19 16:09	0.0063	0.0219			1.0000	07122019cal.c80 12.07.19 10:04	
35 46	CCB 234094_12021 <0.02	0.1000 g 04.09.19 14:03	✓ 04.09.19 16:12	0.0074	0.0403	0.0004		1.0000	07122019cal.c80 12.07.19 10:04	7473 Biota.m80 31.10.11 13:06
36 47	40193365007_12020	0.1003 g 04.09.19 14:04	✓ 04.09.19 16:23	0.0526	0.8051	0.0080		1.0000	07122019cal.c80 12.07.19 10:04	7473 Biota.m80 31.10.11 13:06
37 48	40193365008_12020	0.1050 g 04.09.19 14:06	✓ 04.09.19 16:35	0.0558	0.8599	0.0082		1.0000	07122019cal.c80 12.07.19 10:04	7473 Biota.m80 31.10.11 13:06
38 49	40193365009_12020	0.1061 g 04.09.19 14:07	✓ 04.09.19 16:46	0.0728	1.1524	0.0109		1.0000	07122019cal.c80 12.07.19 10:04	7473 Biota.m80 31.10.11 13:06
39 50	40193365010_12020	0.1077 g 04.09.19 14:08	✓ 04.09.19 16:58	0.0352	0.5087	0.0047		1.0000	07122019cal.c80 12.07.19 10:04	7473 Biota.m80 31.10.11 13:06
40 51	40193365011_12020	0.1071 g 04.09.19 14:09	✓ 04.09.19 17:09	0.0612	0.9525	0.0089		1.0000	07122019cal.c80 12.07.19 10:04	7473 Biota.m80 31.10.11 13:06
1 52	40193365012_12020	0.1083 g 04.09.19 14:09	✓ 04.09.19 17:20	0.0586	0.9079	0.0084		1.0000	07122019cal.c80 12.07.19 10:04	7473 Biota.m80 31.10.11 13:06
2 53	40193365013_12020	0.1014 g 04.09.19 14:11	✓ 04.09.19 17:32	0.0011	0.0000	0.0000		1.0000	07122019cal.c80 12.07.19 10:04	7473 Biota.m80 31.10.11 13:06
3 54	CCVB 229870_12021 92%	0.0273 g 04.09.19 14:12	✓ 04.09.19 17:43	0.3986	7.3372	0.2688		1.0000	07122019cal.c80 12.07.19 10:04	7473 Biota.m80 31.10.11 13:06
4 55	CCVA 146935_12021 101%	0.0273 g 04.09.19 14:14	✓ 04.09.19 17:55	0.1072	115.0572	4.2145		1.0000	07122019cal.c80 12.07.19 10:04	7473 Biota.m80 31.10.11 13:06
- 56	auto BV (1)	0.0000 g 04.09.19 18:07	✓ B 04.09.19 18:06	0.0061	0.0185			1.0000	07122019cal.c80 12.07.19 10:04	
5 57	CCB 234094_12021 <0.02	0.1000 g 04.09.19 14:16	✓ 04.09.19 18:10	0.0074	0.0403	0.0004		1.0000	07122019cal.c80 12.07.19 10:04	7473 Biota.m80 31.10.11 13:06